



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Computer Application in Civil Engineering

Faculty : cadhule - CHETANKUMAR A.

DHULE

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	C-Fundamentals ,intro to subject co and po of subject	04/12/2017	BCEL218	A
1	2	C-Fundamentals	06/12/2017	BCEL218	A
1	3	C-Fundamentals	11/12/2017	BCEL218	A
1	4	CHARACTER SET data type constant and variables	13/12/2017	BCEL218	A
1	5	CHARACTER SET data type constant and variables	18/12/2017	BCEL218	A
1	6	Declaration of constants & variables	20/12/2017	BCEL218	A
1	7	Declaration of constants & variables	01/01/2018	BCEL218	A
1	8	Expression	03/01/2018	BCEL218	A
1	9	Statements	08/01/2018	BCEL218	A
1	10	Symbolic constants	10/01/2018	BCEL218	A
1	11	Symbolic constants	15/01/2018	BCEL218	A
1	12	Operator and Expression	17/01/2018	BCEL218	A
1	13	Operator and Expression	22/01/2018	BCEL218	A
1	14	Arithmetic operator , Unary operator , Relation and Logical operator	24/01/2018	BCEL218	A
1	15	Assignment operators , the conditional operator, Library functions.	29/01/2018	BCEL218	A
1	16	Data input & output Interactive programming preparing	31/01/2018	BCEL218	A
1	17	Data input & output Interactive programming preparing	05/02/2018	BCEL218	A
1	18	running a complete simple program.	07/02/2018	BCEL218	A
1	19	running a complete simple program.	13/02/2018	BCEL218	A
2	20	Control statement	19/02/2018	BCEL218	A
2	21	the WHILE statements	21/02/2018	BCEL218	A



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Unit	Topic Code	Topic Covered	Date	Course	Section
2	22	do-while	27/02/2018	BCEL218	A
2	23	for nested loop	05/03/2018	BCEL218	A
2	24	if -else , switch break, continue , goto	07/03/2018	BCEL218	A
2	25	statement , comma operator.	12/03/2018	BCEL218	A
3	26	Functions	14/03/2018	BCEL218	A
3	27	Functions	19/03/2018	BCEL218	A
3	28	Storage class ,	21/03/2018	BCEL218	A
3	29	Arrays Numerical Integration	26/03/2018	BCEL218	A
4	30	ADVANCE TOPICS	28/03/2018	BCEL218	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction	04/12/2017	BCEL216	A
1	2	Cement : Main constituents of cements, Hydration of cement. Water required Physical properties and testing of cement	07/12/2017	BCEL216	A
1	3	. Effect of fineness, Initial final and false setting of cement, Soundness test. Hardening and compressive strength	08/12/2017	BCEL216	A
1	4	Grades and different types of cement, G.G. Blast furnace slag cement	11/12/2017	BCEL216	A
1	5	Low heat Portland cement, Portland pozzolans cement, Portland flyash cement, Sulphate resisting cement. Aggregates : Sources of aggregates, classification and nomenclature, Coarse and fine aggregate	14/12/2017	BCEL216	A
1	6	normal weight (light and heavy weight aggregates). Aggregate characteristics and their significance in strength, workability, placement and compaction of concrete. Sampling, Particle shape and texture	15/12/2017	BCEL216	A
1	7	Bond of aggregate, size & grading of aggregate strength of aggregate. Mechanical properties and tests – Specific gravity, bulk density, porosity, absorption of aggregate, moisture content of aggregate, bulking of sand abrasion test, impact value.	18/12/2017	BCEL216	A
1	8	Deleterious substances in aggregate, organic impurities clay and other fine material etc. Soundness of aggregate, Crushed sand. Alkali aggregate reaction. Introduction of IS: 383, water quality for mixing and curing, Acceptable water, pH value, Seawater chlorides content. Provisions in IS: 456-2000.	21/12/2017	BCEL216	A
2	9	Batching, Mechanical mixers, automatic batching and mixing plants. Efficiency of mixing, Workability Measurement	22/12/2017	BCEL216	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
2	10	Slump cone test, compacting factor test, flow table, Vee-Bee consistometer. Factor affecting workability	28/12/2017	BCEL216	A
2	11	setting time, Significance of w/c ratio, Segregation, bleeding, voids, and permeability	29/12/2017	BCEL216	A
2	12	Hot weather concreting, Conveyance of concrete, placing of concrete,	01/01/2018	BCEL216	A
2	13	compaction, vibrators, curing of concrete, significance, methods of curing	08/01/2018	BCEL216	A
2	14	temperature effects on curing and strength gain. IS code on curing,	11/01/2018	BCEL216	A
2	15	Maturity of concrete, Framework for concrete- IS code	12/01/2018	BCEL216	A
3	16	Strength of concrete- Gain of strength, w/c ratio. Factors affecting compressive strength, w/c ratio, type of cement, air entrainment	15/01/2018	BCEL216	A
3	17	aggregate, mixing water, admixtures, curing conditions. Tensile and flexural strengths, relation between compressive and tensile strength. Failure modes in concrete, cracking in compression	18/01/2018	BCEL216	A
3	18	Impact strength, fatigue strength, shear, elasticity, poisson's ratio. Testing of hardened concrete.	19/01/2018	BCEL216	A
3	19	Compression test cubes, strength and cylinder strength and their relation, effect of aspect ration on strength	22/01/2018	BCEL216	A
3	20	Flexural strength of concrete, determination of tensile strength, indirect tension test,	25/01/2018	BCEL216	A
3	21	abrasion resistance, accelerated curing test.	26/01/2018	BCEL216	A
3	22	Non Destructive test- significance, rebound hammer	29/01/2018	BCEL216	A
3	23	, ultra sonic pulse velocity test.	01/02/2018	BCEL216	A



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Course : Concrete Technology

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
4	24	Additives and admixtures- Types of admixtures, natural products, diatomaceous earth, calcined clays of shale's, volcanic glasses	02/02/2018	BCEL216	A
4	25	, byproducts – pozzolans, fly ash, silica fume, rice husk ash, metakaoline,	05/02/2018	BCEL216	A
4	26	G.G. blast furnace slag, admixtures air entraining, water reducing, accelerators, retarders	12/02/2018	BCEL216	A
4	27	plasticizers and superplasticizers, permeability reducing, grouting agents, surface hardeners.	15/02/2018	BCEL216	A
4	28	Shrinkage- early volume changes, drying shrinkage, mechanism of shrinkage,	16/02/2018	BCEL216	A
4	29	factors affecting shrinkage, influence of curing and strong conditions, differential shrinkage	19/02/2018	BCEL216	A
4	30	carbonation, creep- factors influencing,	22/02/2018	BCEL216	A
4	31	relation between creep and time, nature of creep, effect of creep.	23/02/2018	BCEL216	A
5	32	Mix Design- Process,	26/02/2018	BCEL216	A
5	33	statistical relation between mean and characteristic strength, variance,	01/03/2018	BCEL216	A
5	34	standard deviation, factors affecting mix properties,	02/03/2018	BCEL216	A
5	35	grading of aggregates	05/03/2018	BCEL216	A
5	36	aggregate/cement ratio etc	08/03/2018	BCEL216	A
5	37	. Degree of quality control	09/03/2018	BCEL216	A
5	38	, design of mix by Road	15/03/2018	BCEL216	A
5	39	Note No. [04] (BS), ACI method	16/03/2018	BCEL216	A
6	40	Durability of concrete- Significance, water as an agent of deterioration,	19/03/2018	BCEL216	A
6	41	permeability of concrete, air sulphate attack and control	22/03/2018	BCEL216	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
6	42	, sea water attack, acid attack, efflorescence, resistance of corrosion	23/03/2018	BCEL216	A
6	43	abrasion and cavitation, process of rusting of steel	26/03/2018	BCEL216	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Fluid Mechanics-II

Faculty : aanaitam - Asmita. A. Naitam

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Aim, objectives, syllabus & necessity of the subject in Civil Engineering point of view with its wide applications. Discussing paper pattern & planning of TAE Parameters.	04/12/2017	BCEL312	A
1	2	Introduction of laminar flow, steady uniform laminar flow in circular pipes.	05/12/2017	BCEL312	A
1	3	Revision of above and loss of head in circular pipe with its numerical.	06/12/2017	BCEL312	A
1	4	Introduction of boundary layer (Nominal thickness, displacement thickness, momentum thickness) characteristics of that.	08/12/2017	BCEL312	A
1	5	Introduction of boundary layer (Nominal thickness, displacement thickness, momentum thickness) characteristics of that.	11/12/2017	BCEL312	A
1	6	Explanation on Stoke's Law, Streamlined body and bluff body and Karman's vortex trail.	12/12/2017	BCEL312	A
1	7	Moody's Chart, Frictional resistance to flow of fluid in smooth and rough pipes,	13/12/2017	BCEL312	A
1	8	Numerical on three reservoir system & concept of siphon.	18/12/2017	BCEL312	A
1	9	Numerical on three reservoir system & concept of siphon.	19/12/2017	BCEL312	A
1	10	Power transmission through pipes with numerical.	26/12/2017	BCEL312	A
2	11	Introduction and Classification of flow in Channels and their geometrical properties.	27/12/2017	BCEL312	A
2	12	Introduction and Classification of flow in Channels and their geometrical properties.	29/12/2017	BCEL312	A
2	13	Derivation on Normal Depth and conveyance of channel.	01/01/2018	BCEL312	A
2	14	Explanation on Specific energy and Specific energy curve.	02/01/2018	BCEL312	A
2	15	Critical depth, Critical velocity and Minimum Specific energy, Critical Flows, alternate & sequent depths.	03/01/2018	BCEL312	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Fluid Mechanics-II

Faculty : aanaitam - Asmita. A. Naitam

Unit	Topic Code	Topic Covered	Date	Course	Section
2	16	Revision of Section A & discussion of important topics.	05/01/2018	BCEL312	A
2	17	Numerical on Rectangular, Triangular, Circular & Trapezoidal channels.	15/01/2018	BCEL312	A
2	18	Derivation on Normal Depth and conveyance of channel.	16/01/2018	BCEL312	A
2	19	Explanation on Specific energy and Specific energy curve.	17/01/2018	BCEL312	A
3	20	Numerical contd. Back water curve profiles and Length expression by direct step method.	22/01/2018	BCEL312	A
3	21	Rapid Varied Flow brief discussion.	23/01/2018	BCEL312	A
3	22	Hydraulic Jump, expressions for depth, length & height of hydraulic Jumps.	24/01/2018	BCEL312	A
3	23	Derivation and Expression for loss of energy due to hydraulic jump.	29/01/2018	BCEL312	A
3	24	Classifications of hydraulic jump with their numerical.	30/01/2018	BCEL312	A
3	25	Numerical on length of back water curve	31/01/2018	BCEL312	A
3	26	Numerical s on hydraulic jump & specific energy	02/02/2018	BCEL312	A
3	27	Model laws: Reynolds model law, Froude's model law, Euler's model law, Mach model law & Weber model law.	05/02/2018	BCEL312	A
4	28	Introduction to turbines, heads & their types. Efficiencies of turbines with its numerical	06/02/2018	BCEL312	A
4	29	Classification of turbines; component parts and working principles with selection criteria.	07/02/2018	BCEL312	A
4	30	Specific speed of turbines with its numerical.	12/02/2018	BCEL312	A
4	31	Centrifugal Pump: Component parts, Working principle, Static and manometric heads and efficiencies.	13/02/2018	BCEL312	A
4	32	Specific speed; Theoretical aspect of multistage pump, pump in parallel, Priming devices, Trouble & remedies.	14/02/2018	BCEL312	A



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Course : Fluid Mechanics-II

Faculty : aanaitam - Asmita. A. Naitam

Unit	Topic Code	Topic Covered	Date	Course	Section
4	33	Numerical on centrifugal Pump to calculate head and efficiencies.	16/02/2018	BCEL312	A
5	34	Reciprocating Pump: Component parts, Working principle, Work done of single & double acting pumps	19/02/2018	BCEL312	A
5	35	Negative slip, Air vessels – Working principle and necessity.	20/02/2018	BCEL312	A
5	36	Impulse and reaction turbine: Pelton turbine & Francis turbine.	21/02/2018	BCEL312	A
5	37	Revision and discuss the important questions of section B.	23/02/2018	BCEL312	A
5	38	Velocity distribution across a section of laminar pipe flow (Average velocity and power required to maintain flow).	26/02/2018	BCEL312	A
5	39	Introduction of Real Fluid, short explanation on drag and lift force with its classification, coefficients & numerical.	27/02/2018	BCEL312	A
5	40	Hardy Cross method of pipe.	28/02/2018	BCEL312	A
5	41	Hydraulic models & their prototype with brief explanation, Types of models.	05/03/2018	BCEL312	A
5	42	Numerical on centrifugal Pump to calculate head and efficiencies.	06/03/2018	BCEL312	A
5	43	Introduction of Real Fluid, short explanation on drag and lift force with its classification, coefficients & numerical.	07/03/2018	BCEL312	A
5	44	Advance topic content beyond the syllabus.	09/03/2018	BCEL312	A
6	45	Specific speed; Theoretical aspect of multistage pump, pump in parallel, Priming devices, Trouble & remedies.	16/03/2018	BCEL312	A
6	46	Numerical on centrifugal Pump to calculate head and efficiencies.	19/03/2018	BCEL312	A
6	47	Numerical on centrifugal Pump to calculate head and efficiencies.	20/03/2018	BCEL312	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-I

Faculty : single - Sheetal Ingole

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Static determinacy of structure	04/12/2017	BCEL321	A
1	2	Analysis of loads on simply supported beams with concentrated and uniformly distributed loads,	05/12/2017	BCEL321	A
1	3	maximum B.M. and S.F. Influence lines for reactions	06/12/2017	BCEL321	A
1	5	cantilevers and beams with overhangs	11/12/2017	BCEL321	A
1	6	Influence lines for forces in members of simple trusses	12/12/2017	BCEL321	A
1	7	and for BM and SF in panels of simple trusses.	13/12/2017	BCEL321	A
2	9	Strain energy method as applied to the analysis of redundant frames continues..	18/12/2017	BCEL321	A
2	10	redundant trusses up to two degrees.	19/12/2017	BCEL321	A
2	11	redundant trusses up to two degrees.	20/12/2017	BCEL321	A
2	13	Determination of deflection of trusses continues	25/12/2017	BCEL321	A
2	14	Willot Mohr digram, Castiglianos theorems,	26/12/2017	BCEL321	A
2	15	Maxwells reciprocal theorem . Battis theorem.	27/12/2017	BCEL321	A
3	17	Bucking of Columns and beams columns continue..	01/01/2018	BCEL321	A
3	18	Eulers and Rankines formula	02/01/2018	BCEL321	A
3	19	Eulers and Rankines formula continue..	03/01/2018	BCEL321	A
3	21	Analysis of Two- Hinged arches continue..	08/01/2018	BCEL321	A
3	22	S.F. and normal thrust	09/01/2018	BCEL321	A
3	23	S.F. and normal thrust continue..	10/01/2018	BCEL321	A
4	25	Analysis of fixed beams by theorem of three moments effect of sinking of support.	15/01/2018	BCEL321	A



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Course : Structural Analysis-I

Faculty : single - Sheetal Ingole

Unit	Topic Code	Topic Covered	Date	Course	Section
4	26	Analysis of fixed beams by theorem of three moments effect of sinking of support.	16/01/2018	BCEL321	A
4	27	Analysis of fixed beams by theorem of three moments effect of sinking of support.	17/01/2018	BCEL321	A
4	29	Analysis of continuous beams by theorem of three moments effect of sinking of support.	22/01/2018	BCEL321	A
4	30	Analysis of continuous beams by theorem of three moments effect of sinking of support.	23/01/2018	BCEL321	A
4	31	Analysis of continuous beams by theorem of three moments effect of sinking of support.	24/01/2018	BCEL321	A
5	33	Analysis of continues beams and simple portals (Non sway) using Moment Distribution methods.	29/01/2018	BCEL321	A
5	34	Analysis of continues beams and simple portals (Non sway) using Moment Distribution methods.	30/01/2018	BCEL321	A
5	35	Introduction flexibility method	31/01/2018	BCEL321	A
5	37	compatibility method for beams	05/02/2018	BCEL321	A
5	38	compatibility method for frames	06/02/2018	BCEL321	A
6	39	Slope deflection method as applied to indeterminate beams	07/02/2018	BCEL321	A
6	41	Slope deflection method as applied to continues beams	12/02/2018	BCEL321	A
6	42	Slope deflection method as applied to portal frames	13/02/2018	BCEL321	A
6	43	Slope deflection method as applied to portal frames	14/02/2018	BCEL321	A
6	45	Slope deflection method as applied to frame with inclined legs up to 3 degrees of freedom	19/02/2018	BCEL321	A
1	46	Revision of unit 1	20/02/2018	BCEL321	A
1	47	Revision of unit 1	21/02/2018	BCEL321	A



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Course : Structural Analysis-I

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Unit	Topic Code	Topic Covered	Date	Course	Section
3	49	revision of unit 3	26/02/2018	BCEL321	A
4	4	revision of unit 4	27/02/2018	BCEL321	A
5	8	revision of unit 5	28/02/2018	BCEL321	A
1	12	revision of unit 1	05/03/2018	BCEL321	A
2	16	revision of unit 2	06/03/2018	BCEL321	A
3	20	revision of unit 3	07/03/2018	BCEL321	A
4	24	revision of unit 4	12/03/2018	BCEL321	A
4	28	revision of unit 6	13/03/2018	BCEL321	A
5	32	revision of unit 6	14/03/2018	BCEL321	A
5	36	revision of unit 5	19/03/2018	BCEL321	A
2	40	revision of unit 2	20/03/2018	BCEL321	A
4	44	revision of unit 8	21/03/2018	BCEL321	A
5	48	revision of unit 6	26/03/2018	BCEL321	A
4	50	revision of unit 5	27/03/2018	BCEL321	A
4	51	revision of unit 6	28/03/2018	BCEL321	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : bvkhode - Bhalchandra V. Khode

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction , objective , outcome ,PO,PEO	04/12/2017	BCEL217	A
1	2	Chain traversing: Classification. Principle of survey,	06/12/2017	BCEL217	A
1	3	Purpose of sureveying, Classification Basic principle of survey	07/12/2017	BCEL217	A
1	4	Chain surveying ,principle of chain survey	08/12/2017	BCEL217	A
1	1	Tutorial NO-1	11/12/2017	BCEL217	A
1	5	Taps	13/12/2017	BCEL217	A
1	6	Cross staff survey, construction and testing of optical square, line ranger	14/12/2017	BCEL217	A
1	7	Ranging (Direct and indirect)	15/12/2017	BCEL217	A
1	2	Tutorial NO-2	18/12/2017	BCEL217	A
1	8	Offset and certain terms used in surveying	20/12/2017	BCEL217	A
1	9	Sources of error ,classification	21/12/2017	BCEL217	A
1	10	Com,pass Traversing, Prismatic and surveyor's compass,	22/12/2017	BCEL217	A
2	3	Tutorial NO-3	01/01/2018	BCEL217	A
1	11	Prismatic compass, surveyor's compass	03/01/2018	BCEL217	A
1	12	Adjustment of the prismatic compass	08/01/2018	BCEL217	A
1	13	True and magnetic bearing, local attraction,	10/01/2018	BCEL217	A
1	14	Whole circle and quadrant system	11/01/2018	BCEL217	A
1	15	Problem on above	12/01/2018	BCEL217	A
2	4	Tutorial NO-4	15/01/2018	BCEL217	A
1	16	Dip and magnetic inclination, compass traversing adjustment of traverse	17/01/2018	BCEL217	A
2	17	Problem on above	18/01/2018	BCEL217	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : bvkhode - Bhalchandra V.
Khode

Unit	Topic Code	Topic Covered	Date	Course	Section
2	18	Levelling: Principle of leveling Different types of Levels,	19/01/2018	BCEL217	A
3	5	Tutorial NO-5	22/01/2018	BCEL217	A
2	19	Study of Dumpy Level, temporary adjustment,	24/01/2018	BCEL217	A
2	20	Reduction of levels,	25/01/2018	BCEL217	A
3	6	Tutorial NO-6	29/01/2018	BCEL217	A
2	21	Problem on above	31/01/2018	BCEL217	A
2	22	Classification of leveling, Reciprocal Levelling ,curvature and refraction	01/02/2018	BCEL217	A
2	23	Distance to the visible horizon	02/02/2018	BCEL217	A
4	7	Tutorial NO-7	05/02/2018	BCEL217	A
2	24	Contouring: Definition, Characteristics ,method of locating contours,	07/02/2018	BCEL217	A
4	8	Tutorial NO-8	12/02/2018	BCEL217	A
2	25	interpretation of counters	14/02/2018	BCEL217	A
0	26	interpretation of counters	15/02/2018	BCEL217	A
2	27	Adjustment of dumpy level & Trigonometrical leveling	16/02/2018	BCEL217	A
2	28	Theodolite Traversing:-Introduction, Type of Theodolite, Temporary adjustment	23/02/2018	BCEL217	A
5	9	Tutorial NO-9	26/02/2018	BCEL217	A
3	29	Principle axes and relationship,	28/02/2018	BCEL217	A
3	30	Permanent adjustment ,Measurement of horizontal & Vertical angles, Magnetic bearing	01/03/2018	BCEL217	A
5	34	Plane table Surveying : Equipment, advantages and disadvantages ,orientation,	05/03/2018	BCEL217	A
3	31	Traverse Computation: Consecutive and independent coordinates,	07/03/2018	BCEL217	A



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Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : bvkhode - Bhalchandra V. Khode

Unit	Topic Code	Topic Covered	Date	Course	Section
4	32	Adjustment of closed traverse, Gale's traverse table, area calculation by coordinates.	08/03/2018	BCEL217	A
4	33	Problem on above	09/03/2018	BCEL217	A
5	35	method of plane tabling, two point and three point problems in plane tabling	15/03/2018	BCEL217	A
0	36	Trapezoidal and Simpsons Rule, Use theory, zero circle	16/03/2018	BCEL217	A
5	37	Computation of area and Volume	19/03/2018	BCEL217	A
5	38	Computation of area and Volume	21/03/2018	BCEL217	A
6	39	Surveying Equipments	22/03/2018	BCEL217	A
6	40	Surveying Equipments	23/03/2018	BCEL217	A
6	41	Underground Surveying	26/03/2018	BCEL217	A
6	42	Surveying Equipments	28/03/2018	BCEL217	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Computer Application in Civil Engineering

Faculty : jjshah - Ms. Jagruti J. Shah

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	C-Fundamentals ,intro to subject co and po of subject	05/12/2017	BCEL218	B
1	2	C-Fundamentals	06/12/2017	BCEL218	B
1	3	C-Fundamentals	12/12/2017	BCEL218	B
1	4	CHARACTER SET data type constant and variables	13/12/2017	BCEL218	B
1	5	CHARACTER SET data type constant and variables	19/12/2017	BCEL218	B
1	6	Declaration of constants & variables	20/12/2017	BCEL218	B
1	7	Declaration of constants & variables	02/01/2018	BCEL218	B
1	8	Expression	03/01/2018	BCEL218	B
1	9	Statements	09/01/2018	BCEL218	B
1	10	Symbolic constants	10/01/2018	BCEL218	B
1	11	Symbolic constants	16/01/2018	BCEL218	B
1	12	Operator and Expression	17/01/2018	BCEL218	B
1	13	Operator and Expression	23/01/2018	BCEL218	B
1	14	Arithmetic operator , Unary operator , Relation and Logical operator	24/01/2018	BCEL218	B
1	15	Assignment operators , the conditional operator, Library functions.	30/01/2018	BCEL218	B
1	16	Data input & output Interactive programming preparing	31/01/2018	BCEL218	B
1	17	Data input & output Interactive programming preparing	06/02/2018	BCEL218	B
1	18	running a complete simple program.	07/02/2018	BCEL218	B
1	19	running a complete simple program.	14/02/2018	BCEL218	B
2	20	Control statement	20/02/2018	BCEL218	B
2	21	the WHILE statements	21/02/2018	BCEL218	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Computer Application in Civil Engineering

Faculty : jjshah - Ms. Jagruti J. Shah

Unit	Topic Code	Topic Covered	Date	Course	Section
2	22	do-while	28/02/2018	BCEL218	B
2	23	for nested loop	06/03/2018	BCEL218	B
2	24	if -else , switch break, continue , goto	07/03/2018	BCEL218	B
2	25	statement , comma operator.	13/03/2018	BCEL218	B
3	26	Functions	14/03/2018	BCEL218	B
3	27	Functions	20/03/2018	BCEL218	B
3	28	Storage class ,	21/03/2018	BCEL218	B
3	29	Arrays Numerical Integration	27/03/2018	BCEL218	B
4	33		28/03/2018	BCEL218	B



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CRPF Gate No.3, Hingna Road, Digidoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : aagulghane - Akshay Gulghane

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction and Objective of Concrete Technology	05/12/2017	BCEL216	B
1	2	Main constituents of Cement, Hydration of cement, testing of cement	06/12/2017	BCEL216	B
1	3	Different types of cements, Initial final and false setting of cement, soundness test, hardening and compressive strength.	07/12/2017	BCEL216	B
1	4	Aggregate source of aggregate, classification and nomenclature	12/12/2017	BCEL216	B
1	5	Coarse and fine aggregate, normal weight, Aggregate characteristics and their significance in strength workability placement and compaction of concrete	14/12/2017	BCEL216	B
1	6	Sampling, Particle shape and texture, Bond of aggregate, size & grading of aggregate strength of aggregate.	19/12/2017	BCEL216	B
1	7	Mechanical properties and tests – Specific gravity, bulk density, porosity, absorption of aggregate, moisture content of aggregate, bulking of sand abrasion test, impact value. Deleterious substances in aggregate, organic impurities clay and other fine material etc.	20/12/2017	BCEL216	B
1	8	Soundness of aggregate, Crushed sand. Alkali aggregate reaction. Introduction of IS: 383, water quality for mixing and curing, Acceptable water, pH value, Seawater chlorides content. Provisions in IS: 456.	21/12/2017	BCEL216	B
1	40	Types of cement	26/12/2017	BCEL216	B
1	9	different types of cement ad their tests	02/01/2018	BCEL216	B
2	10	Fresh Concrete: Batching, Mechanical mixers, automatic batching and mixing Plants.	03/01/2018	BCEL216	B



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Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : aagulghane - Akshay Gulghane

Unit	Topic Code	Topic Covered	Date	Course	Section
2	11	Hot weather concreting, Conveyance of concrete, placing of concrete, compaction, vibrators, curing of concrete, significance, methods of curing, temperature effects on curing and strength gain.	09/01/2018	BCEL216	B
2	12	IS code on curing, Maturity of concrete, Framework for concrete- IS code.	10/01/2018	BCEL216	B
3	13	Strength of concrete- Gain of strength, w/c ratio.	11/01/2018	BCEL216	B
3	14	Factors affecting compressive strength, w/c ratio, type of cement, air entrainment, aggregate, mixing water, admixtures, curing conditions.	16/01/2018	BCEL216	B
3	15	Tensile and flexural strengths, relation between compressive and tensile strength.	17/01/2018	BCEL216	B
3	16	Failure modes in concrete, cracking in compression. Impact strength, fatigue strength, shear, elasticity, Poisson's ratio Testing of hardened concrete.	18/01/2018	BCEL216	B
3	17	Compression test cubes, strength and cylinder strength and their relation, effect of aspect ration on strength.	23/01/2018	BCEL216	B
3	18	Flexural strength of concrete, determination of tensile strength, indirect tension test, splitting Test, abrasion resistance, accelerated curing test.	24/01/2018	BCEL216	B
3	19	Non Destructive test- significance, rebound hammer, ultra sonic pulse velocity test.	25/01/2018	BCEL216	B
4	20	Mix Design- Process	30/01/2018	BCEL216	B
4	21	Mix Design- Process, statistical relation between m_{in} and characteristic strength, variance, standard deviation	31/01/2018	BCEL216	B
4	22	Mix Design- Process, statistical relation between m_{in} and characteristic strength, variance, standard deviation	01/02/2018	BCEL216	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digidoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : aagulghane - Akshay Gulghane

Unit	Topic Code	Topic Covered	Date	Course	Section
4	23	Mix Design- Process, statistical relation between mean and characteristic strength, variance, standard deviation	06/02/2018	BCEL216	B
4	24	factors affecting mix properties, grading of aggregates, aggregate/cement ratio etc.	07/02/2018	BCEL216	B
4	25	Degree of quality control	14/02/2018	BCEL216	B
4	26	strength of concrete	15/02/2018	BCEL216	B
4	27	admixture	27/02/2018	BCEL216	B
4	28	Design of mix by Road Note No. 4 (BS), ACI method.	28/02/2018	BCEL216	B
5	29	Types of admixtures, natural products, diatomaceous earth, calcined clays of shale's, volcanic glasses,	01/03/2018	BCEL216	B
5	30	Byproducts – pozzolans, fly ash, silica fume, rice husk ash, metakaoline, G.G. blast furnace slag,	06/03/2018	BCEL216	B
5	31	Admixtures- air entraining, water reducing, accelerators, retarders, plasticizers and superplasticizers, permeability reducing, grouting agents, surface hardeners.	07/03/2018	BCEL216	B
5	32	Shrinkage	08/03/2018	BCEL216	B
5	33	Shrinkage- early volume changes, drying shrinkage, mechanism of shrinkage, factors affecting shrinkage	15/03/2018	BCEL216	B
5	34	influence of curing and strong conditions, differential shrinkage, carbonation	20/03/2018	BCEL216	B
5	35	Creep- factors influencing, relation between creep and time, nature of creep, effect of creep.	21/03/2018	BCEL216	B
6	36	Introduction of Durability of concrete	22/03/2018	BCEL216	B
6	37	Durability of concrete- Significance, water as an agent of deterioration, permeability of concrete	27/03/2018	BCEL216	B



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Course wise Teaching Plan for Session : Summer 2018

Course : Concrete Technology

Faculty : aagulghane - Akshay Gulghane

Unit	Topic Code	Topic Covered	Date	Course	Section
6	38	Air sulphate attack and control, sea water attack, acid attack.	28/03/2018	BCEL216	B
6	39	concrete mix design	29/03/2018	BCEL216	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Fluid Mechanics-II

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction	05/12/2017	BCEL312	B
1	2	LAMINAR FLOW : Steady uniform laminar flow in circular pipes ;	06/12/2017	BCEL312	B
1	3	Velocity and shear stress distribution Hagen – Poiseuille equation.	08/12/2017	BCEL312	B
1	4	BOUNDARY LAYER THEORY : Nominal thickness, displacement thickness , momentum thickness of the boundary layer	09/12/2017	BCEL312	B
1	5	TUTORIAL 1	12/12/2017	BCEL312	B
1	6	laminar sub layer : Separation of boundary layer on plane and curved surfaces	13/12/2017	BCEL312	B
1	7	REAL, INCOMPRESSIBLE FLUID FLOW AROUND IMMERSED BODIES: In general definition of drag and lift;	15/12/2017	BCEL312	B
1	8	Flow past plates , cylinders and spheres ; drag on sphere , cylinder and flat plate.	16/12/2017	BCEL312	B
2	9	TUTORIAL 2	19/12/2017	BCEL312	B
2	10	; Nikurade's experiment ; Moody's chart ,	20/12/2017	BCEL312	B
2	11	Hydraulic gradient and energy gradient :	22/12/2017	BCEL312	B
2	12	; Siphon; transmission of power through pipes	23/12/2017	BCEL312	B
2	13	TUTORIAL 3	26/12/2017	BCEL312	B
2	14	Darcy-Weisbach & Hazen William,'s equation for frictional head loss	27/12/2017	BCEL312	B
2	15	Pipes in series and parallel; Branched pipes	29/12/2017	BCEL312	B
2	16	Water hammer pressure head due to sudden closure of valve	30/12/2017	BCEL312	B
3	17	TUTORIAL 4	02/01/2018	BCEL312	B
3	18	UNIFORM FLOW : Chezy's and Manning's equations ; Hydraulically most efficient rectangular , triangular and trapezoidal sections	03/01/2018	BCEL312	B



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Course wise Teaching Plan for Session : Summer 2018

Course : Fluid Mechanics-II

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
3	19	TUTORIAL 5	09/01/2018	BCEL312	B
3	20	CRITICAL FLOW : Specific energy and it's diagram ;	10/01/2018	BCEL312	B
3	21	, critical slope ; normal critical slope ; Specific force and it's diagram ; Conditions of critical flow	12/01/2018	BCEL312	B
3	22	alternate depths ; Computations of critical depth section factor for critical flow .	13/01/2018	BCEL312	B
3	23	TUTORIAL 6	16/01/2018	BCEL312	B
4	24	APPLICATIONS OF SPECIFIC ENERGY , GRADUAL TRANSITIONS OF CHANNELS :	17/01/2018	BCEL312	B
4	25	Dynamic equation for GVF ; Classification and characteristics of surface profile;	19/01/2018	BCEL312	B
4	26	RAPIDLY VARIED FLOW : definition of hydraulic jump ; equation of hydraulic jump in horizontal rectangular channel ;	20/01/2018	BCEL312	B
4	27	TUTORIAL 7	23/01/2018	BCEL312	B
4	28	Direct Step method of computing profile length	24/01/2018	BCEL312	B
4	29	GRADUALLY VARIED FLOW	27/01/2018	BCEL312	B
4	30	TUTORIAL 8	30/01/2018	BCEL312	B
5	31	HYDRAULIC MODELS : Difference between model and prototype	31/01/2018	BCEL312	B
5	32	Similitude-type of similarities ; Model laws Reynolds model law and Froude's model law	02/02/2018	BCEL312	B
5	33	Types of model – distorted , undistorted ;	03/02/2018	BCEL312	B
5	34	TUTORIAL 9	06/02/2018	BCEL312	B
5	35	TURBINES : Definition ; Gross and net heads; different efficiencies	07/02/2018	BCEL312	B
5	36	TUTORIAL 10	13/02/2018	BCEL312	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Fluid Mechanics-II

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
5	37	Froude's method of determining resistance to partially submerged objects like ship.	14/02/2018	BCEL312	B
5	38	selection of turbines on the basis of head and specific speed	16/02/2018	BCEL312	B
6	39	. CENTRIFUGAL AND RECIPROCATING PUMPS CENTRIFUGAL PUMP : Component parts; Working principle ; Static and manometric heads ; different efficiencies	17/02/2018	BCEL312	B
6	40	TUTORIAL 11	20/02/2018	BCEL312	B
6	41	in parallel ; Priming devices ; Trouble & remedies	21/02/2018	BCEL312	B
6	42	Main & operating characteristics curves. Selection on basis of operating characteristics.	23/02/2018	BCEL312	B
6	43	RECIPROCATING PUMPS : Components parts , Working principle , Work done of single & double acting pumps ;	24/02/2018	BCEL312	B
6	44	TUTORIAL 12	27/02/2018	BCEL312	B
6	45	Negative slip , Air vessels – Working principle and necessity	28/02/2018	BCEL312	B
1	46	Boundary layer along a long thin plate and its characteristics; Laminar boundary layer turbulent boundary layer	02/03/2018	BCEL312	B
1	47	FLOW THROUGH PIPES : Hydraulically smooth and rough pipes ; Frictional resistance to flow of fluid in smooth and rough pipes	03/03/2018	BCEL312	B
4	48	TUTORIAL 13	06/03/2018	BCEL312	B
3	49	. FLOW THROUGH OPEN CHANNEL : GENERAL : Types of channel and their geometrical properties; Types of flow in open channel	07/03/2018	BCEL312	B
3	50	Computations of normal depth of flow , conveyance of channel , section factor for uniform flow	09/03/2018	BCEL312	B
3	51	, normal slope and normal discharge	10/03/2018	BCEL312	B



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Course wise Teaching Plan for Session : Summer 2018

Course : Fluid Mechanics-II

Faculty : srsahoo - Smruti Ranjan Sahoo

Unit	Topic Code	Topic Covered	Date	Course	Section
3	52	energy loss in jump ; classifications of jump	16/03/2018	BCEL312	B
4	53	FLUID MACHINERY:IMPACT OF JET : Impact of Jet on stationary and moving curved vanes	17/03/2018	BCEL312	B
4	54	TUTORIAL 15	20/03/2018	BCEL312	B
6	55	HYDRAULIC TURBINES: Introduction, Impulse and reaction turbine, pelton turbine, Francis turbine.	21/03/2018	BCEL312	B
6	56	; Hardy – Cross method of pipe networks;	23/03/2018	BCEL312	B
6	57	length & height of jump ;	24/03/2018	BCEL312	B
6	58	Specific speed; Theoretical aspect of multistage pump	27/03/2018	BCEL312	B
6	59	; Classification of turbines; component parts and working principles ; .	28/03/2018	BCEL312	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Geotechnical Engineering-II

Faculty : bjpgodbole - Mr. Buddharatna

Janbrao Godbole

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Soil exploration, planning, objectives and methods of exploration	04/12/2017	BCEL318	B
1	2	soil boring, spacing and depth of boring, boring log,	05/12/2017	BCEL318	B
1	3	hand augers, wash boring, percussion drilling, rotary drilling	08/12/2017	BCEL318	B
1	4	Type of samples and samplers, area ratio, inside and outside clearance, Soil investigation report	09/12/2017	BCEL318	B
1	5	Field Tests: Plate load test, Standard Penetration test (SPT) , Static Cone Penetration Test (SCPT) and Dynamic Cone Penetration Test (DCPT),	11/12/2017	BCEL318	B
1	6	Field Tests: Plate load test, Standard Penetration test (SPT) , Static Cone Penetration Test (SCPT) and Dynamic Cone Penetration Test (DCPT),	12/12/2017	BCEL318	B
1	7	Field California Bearing Ratio test, Field vane shear test, geophysical methods such as electrical resistivity and soil refraction methods	15/12/2017	BCEL318	B
1	8	Field California Bearing Ratio test, Field vane shear test, geophysical methods such as electrical resistivity and soil refraction methods	16/12/2017	BCEL318	B
2	9	Bearing Capacity: Bearing capacity, its criteria, factors and various methods	18/12/2017	BCEL318	B
2	10	Analytical Methods: Terzaghi's, Skemptions, Meyerhoff, BIS method for bearing capacity	19/12/2017	BCEL318	B
2	11	Analytical Methods: Terzaghi's, Skemptions, Meyerhoff, BIS method for bearing capacity	22/12/2017	BCEL318	B
2	12	Analytical Methods: Terzaghi's, Skemptions, Meyerhoff, BIS method for bearing capacity	23/12/2017	BCEL318	B
2	13	Effect of water table, contact pressure distribution diagram below the base of footing. Bearing capacity based on plate load test results, SPT value, SCPT test results, Pressuremeter tes	01/01/2018	BCEL318	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Geotechnical Engineering-II

Faculty : bjpgodbole - Mr. Buddharatna

Janbrao Godbole

Unit	Topic Code	Topic Covered	Date	Course	Section
2	14	Effect of water table, contact pressure distribution diagram below the base of footing. Bearing capacity based on plate load test results, SPT value, SCPT test results, Pressuremeter test	02/01/2018	BCEL318	B
2	15	Evaluation of soils settlement : immediate, primary and secondary settlement for footing resting on homogenous, isotropic, cohesive and cohesionless soils related to single footing, combined footing, raft foundation etc	08/01/2018	BCEL318	B
2	16	Evaluation of soils settlement : immediate, primary and secondary settlement for footing resting on homogenous, isotropic, cohesive and cohesionless soils related to single footing, combined footing, raft foundation etc	09/01/2018	BCEL318	B
2	17	Evaluation of soils settlement : immediate, primary and secondary settlement for footing resting on homogenous, isotropic, cohesive and cohesionless soils related to single footing, combined footing, raft foundation etc	12/01/2018	BCEL318	B
2	18	concept of differential settlement, factors and causes for differential settlement	15/01/2018	BCEL318	B
2	19	standard requirement of total as well as differential settlement	16/01/2018	BCEL318	B
2	20	service loads, proportioning of footing for uniform settlement.	19/01/2018	BCEL318	B
3	21	Pile foundation : Classification of piles and their uses	20/01/2018	BCEL318	B
3	22	static analysis, formula for determination of pile capacity for driven and bored pile in sand and in clay	22/01/2018	BCEL318	B
3	23	dynamic pile formula, Negative skin friction, factor affecting it, piles in groups and their capacity, group efficiency,	23/01/2018	BCEL318	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Geotechnical Engineering-II

Faculty : bjpgodbole - Mr. Buddharatna

Janbrao Godbole

Unit	Topic Code	Topic Covered	Date	Course	Section
3	24	factors affecting group efficiency, settlement ratio, behaviour of group of pile in sandy and in clayey solids	27/01/2018	BCEL318	B
3	25	pile load test, effect of pile cap. Criteria for spacing and depth of piles.	29/01/2018	BCEL318	B
3	26	IS design criterion for under-reamed pile in clay and sands	30/01/2018	BCEL318	B
3	27	Total and differential settlement related to single pile and group of piles in sandy and in clays soils	02/02/2018	BCEL318	B
4	28	Well foundation: Component and their function, sinking of well, types of force system, and their computation	03/02/2018	BCEL318	B
4	29	design criteria for various components of wells, tilting and shifting of wells,	05/02/2018	BCEL318	B
4	30	Bearing capacity of well foundation as per IS method. Cofferdam: Its purpose, various types, their suitability	06/02/2018	BCEL318	B
4	31	criteria for rigid and flexible raft, design of raft foundation	12/02/2018	BCEL318	B
4	32	concept of floating foundation	16/02/2018	BCEL318	B
5	33	Slope Stability: Slopes, uses and failure of slope, stability analysis of infinite and finite slope in sand	23/02/2018	BCEL318	B
5	34	clay and C- ϕ soil; Tailors stability number	24/02/2018	BCEL318	B
5	35	Swedish circle method, Friction circle method, Bishop Method	26/02/2018	BCEL318	B
5	36	Concept of effective stress analysis	27/02/2018	BCEL318	B
5	37	earth Pressure: Earth Pressure at rest, active and passive, Stages of plastic equilibrium Rankin's and Coulombs theory of active and passive earth pressure on retaining wall	02/03/2018	BCEL318	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Geotechnical Engineering-II

Faculty : bjpgodbole - Mr. Buddharatna

Janbrao Godbole

Unit	Topic Code	Topic Covered	Date	Course	Section
5	38	earth Pressure: Earth Pressure at rest, active and passive, Stages of plastic equilibrium Rankin's and Coulombs theory of active and passive earth pressure on retaining wall	03/03/2018	BCEL318	B
5	39	Influence of surcharge, water table, wall friction, Rebhann and Culmanns simple graphical methods	05/03/2018	BCEL318	B
6	40	Ground Improvement: Methods of soil stabilization use of admixture (lime, cement, fly ash) in stabilization	06/03/2018	BCEL318	B
6	41	Basic concept of reinforced soil, use of Geosynthetics material as a reinforcement	09/03/2018	BCEL318	B
6	42	Geo-textiles, Vibro-flotation, sand column / stone column, preloading.	10/03/2018	BCEL318	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-I

Faculty : njsahare - Niraj. J. Sahare

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Static determinacy of structure	04/12/2017	BCEL321	B
1	2	Analysis of loads on simply supported beams with concentrated and uniformly distributed loads,	06/12/2017	BCEL321	B
1	1	Tutorial No.1	07/12/2017	BCEL321	B
1	3	maximum B.M. and S.F. Influence lines for reactions	07/12/2017	BCEL321	B
1	4	bending moments and shear forces in simply supported beams,	09/12/2017	BCEL321	B
1	5	cantilevers and beams with overhangs	11/12/2017	BCEL321	B
1	6	Influence lines for forces in members of simple trusses	13/12/2017	BCEL321	B
1	2	Tutorial No.2	14/12/2017	BCEL321	B
1	7	and for BM and SF in panels of simple trusses.	14/12/2017	BCEL321	B
2	8	Strain energy method as applied to the analysis of redundant frames	16/12/2017	BCEL321	B
2	9	Strain energy method as applied to the analysis of redundant frames continues..	18/12/2017	BCEL321	B
2	10	redundant trusses up to two degrees.	20/12/2017	BCEL321	B
1	3	Tutorial No.3	21/12/2017	BCEL321	B
2	11	redundant trusses up to two degrees.	21/12/2017	BCEL321	B
2	12	Determination of deflection of trusses	23/12/2017	BCEL321	B
2	13	Determination of deflection of trusses continues	27/12/2017	BCEL321	B
2	4	Tutorial No.4	28/12/2017	BCEL321	B
2	14	Willot Mohr digram, Castiglianos theorems,	28/12/2017	BCEL321	B
2	15	Maxwells reciprocal theorem . Battis theorem.	30/12/2017	BCEL321	B
3	16	Bucking of Columns and beams columns	01/01/2018	BCEL321	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-I

Faculty : njsahare - Niraj. J. Sahare

Unit	Topic Code	Topic Covered	Date	Course	Section
3	17	Buckling of Columns and beams columns continue..	03/01/2018	BCEL321	B
2	5	Tutorial No.5	04/01/2018	BCEL321	B
3	18	Eulers and Rankines formula	08/01/2018	BCEL321	B
3	19	Eulers and Rankines formula continue..	10/01/2018	BCEL321	B
2	6	Tutorial No.6	11/01/2018	BCEL321	B
3	20	Analysis of Two- Hinged arches ,	11/01/2018	BCEL321	B
3	21	Analysis of Two- Hinged arches continue..	13/01/2018	BCEL321	B
3	22	S.F. and normal thrust	15/01/2018	BCEL321	B
3	23	S.F. and normal thrust continue..	17/01/2018	BCEL321	B
3	7	Tutorial No.7	18/01/2018	BCEL321	B
3	24	parabolic arches	18/01/2018	BCEL321	B
4	25	Analysis of fixed beams by theorem of three moments effect of sinking of support.	20/01/2018	BCEL321	B
4	26	Analysis of fixed beams by theorem of three moments effect of sinking of support.	22/01/2018	BCEL321	B
4	27	Analysis of fixed beams by theorem of three moments effect of sinking of support.	24/01/2018	BCEL321	B
3	8	Tutorial No.8	25/01/2018	BCEL321	B
4	28	Analysis of continuous beams by theorem of three moments effect of sinking of support.	25/01/2018	BCEL321	B
4	29	Analysis of continuous beams by theorem of three moments effect of sinking of support.	27/01/2018	BCEL321	B
4	30	Analysis of continuous beams by theorem of three moments effect of sinking of support.	29/01/2018	BCEL321	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-I

Faculty : njsahare - Niraj. J. Sahare

Unit	Topic Code	Topic Covered	Date	Course	Section
4	31	Analysis of continuous beams by theorem of three moments effect of sinking of support.	31/01/2018	BCEL321	B
3	9	Tutorial No.9	01/02/2018	BCEL321	B
5	32	Analysis of continuous beams and simple portals (Non sway) using Moment Distribution methods.	01/02/2018	BCEL321	B
5	33	Analysis of continuous beams and simple portals (Non sway) using Moment Distribution methods.	03/02/2018	BCEL321	B
5	34	Analysis of continuous beams and simple portals (Non sway) using Moment Distribution methods.	05/02/2018	BCEL321	B
5	35	Introduction flexibility method	07/02/2018	BCEL321	B
4	10	Tutorial No.10	08/02/2018	BCEL321	B
5	36	compatibility method for trusses	12/02/2018	BCEL321	B
5	37	compatibility method for beams	14/02/2018	BCEL321	B
4	11	Tutorial No.11	15/02/2018	BCEL321	B
5	38	compatibility method for frames	15/02/2018	BCEL321	B
6	39	Slope deflection method as applied to indeterminate beams	17/02/2018	BCEL321	B
6	40	Slope deflection method as applied to indeterminate beams	19/02/2018	BCEL321	B
6	41	Slope deflection method as applied to continuous beams	21/02/2018	BCEL321	B
4	12	Tutorial No.12	22/02/2018	BCEL321	B
6	42	Slope deflection method as applied to portal frames	22/02/2018	BCEL321	B
6	43	Slope deflection method as applied to portal frames	24/02/2018	BCEL321	B
6	44	Slope deflection method as applied to frame with inclined legs up to 3 degrees of freedom	26/02/2018	BCEL321	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-I

Faculty : njsahare - Niraj. J. Sahare

Unit	Topic Code	Topic Covered	Date	Course	Section
6	45	Slope deflection method as applied to frame with inclined legs up to 3 degrees of freedom	28/02/2018	BCEL321	B
5	13	Tutorial No.13	01/03/2018	BCEL321	B
1	46	Revision of unit 1	01/03/2018	BCEL321	B
1	47	Revision of unit 1	03/03/2018	BCEL321	B
2	48	Revision of unit 2	05/03/2018	BCEL321	B
2	49	Revision of unit 2	07/03/2018	BCEL321	B
5	14	Tutorial No.14	08/03/2018	BCEL321	B
3	50	Revision of unit 3	08/03/2018	BCEL321	B
3	51	Revision of unit 3	10/03/2018	BCEL321	B
5	15	Tutorial No.15	15/03/2018	BCEL321	B
3	52	Revision of unit 3	15/03/2018	BCEL321	B
4	53	Revision of unit 4	17/03/2018	BCEL321	B
4	54	Revision of unit 4	19/03/2018	BCEL321	B
5	55	Revision of unit 5	21/03/2018	BCEL321	B
6	16	Tutorial No.16	22/03/2018	BCEL321	B
5	56	Revision of unit 5	22/03/2018	BCEL321	B
6	57	Revision of unit 6	24/03/2018	BCEL321	B
6	58	Revision of unit 6	26/03/2018	BCEL321	B
6	59	Revision of unit 6	28/03/2018	BCEL321	B
6	17	Tutorial No.17	29/03/2018	BCEL321	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : pbpatil - Mr. Prakash B. Patil

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction, their Objectives and applications.	04/12/2017	BCEL217	B
1	1	TUTORIAL-1: Chain surveying: Basic definition, principle, selection of survey station, offsets for locating details	05/12/2017	BCEL217	B
1	2	Introduction Surveying: Necessity & purpose, Geodetic & plane surveying, classification of survey, principles of surveying.	06/12/2017	BCEL217	B
1	3	Instruments for measurement of Distance: Linear measurements, correction to field measurements, ranging out, direct & indirect ranging. Use of distomat.	08/12/2017	BCEL217	B
1	4	Limiting length of offsets, degree of accuracy of offsets, use of cross staff	11/12/2017	BCEL217	B
1	2	TUTORIAL-2: Instruments for measurement of angles: Prismatic compass, surveyor's compass, their use & adjustment.	12/12/2017	BCEL217	B
1	5	Optical square, prism square, obstacles in chaining	13/12/2017	BCEL217	B
1	6	Plotting of chain survey work, cross staff survey	15/12/2017	BCEL217	B
2	7	Vernier & microscopic theodolite, their temporary adjustment.	18/12/2017	BCEL217	B
1	3	TUTORIAL-3: Traversing: Chain & Compass Traversing	19/12/2017	BCEL217	B
2	8	Permanent adjustment of vernier theodolite.	20/12/2017	BCEL217	B
2	9	Introduction & uses of Total station.	22/12/2017	BCEL217	B
2	10	Reference meridians, bearing & azimuths.	25/12/2017	BCEL217	B
2	4	TUTORIAL-4: Instruments for measurement of Elevation: Dumpy levels tilting & automatic levels.	26/12/2017	BCEL217	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : pbbatil - Mr. Prakash B. Patil

Unit	Topic Code	Topic Covered	Date	Course	Section
2	11	Local attraction, magnetic declination & its variation. Open & closed traverses.	27/12/2017	BCEL217	B
2	12	Adjustment of closed traverse-Bowditch's Graphical method.	29/12/2017	BCEL217	B
3	13	Details of their construction.	01/01/2018	BCEL217	B
2	5	TUTORIAL-5: Tilting levels.	02/01/2018	BCEL217	B
3	14	Details of their construction.	03/01/2018	BCEL217	B
3	15	Temporary adjustments: Temporary adjustment of Dumpy	08/01/2018	BCEL217	B
2	6	TUTORIAL-6: Other uses of theodolite.	09/01/2018	BCEL217	B
3	16	Permanent adjustments of Dumpy	10/01/2018	BCEL217	B
3	17	Tilting levels	12/01/2018	BCEL217	B
4	18	Measurement of Horizontal & Vertical angles: Measurement of Horizontal & Vertical angles with theodolite by different methods.	15/01/2018	BCEL217	B
3	7	TUTORIAL-7: Gale's traverse table.	16/01/2018	BCEL217	B
4	19	Other uses of theodolite.	17/01/2018	BCEL217	B
4	20	Theodolite traverse: Theodolite traverse,	19/01/2018	BCEL217	B
4	21	Latitude & departure	22/01/2018	BCEL217	B
3	8	TUTORIAL-8: Curvature & refraction.	23/01/2018	BCEL217	B
4	22	Gale's traverse table.	24/01/2018	BCEL217	B
5	23	Leveling: Definition of terms, Principle, leveling methods	29/01/2018	BCEL217	B
3	9	TUTORIAL-9: Errors in leveling.	30/01/2018	BCEL217	B
5	24	Leveling staves, Booking & reduction of field notes	31/01/2018	BCEL217	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : pbbpatil - Mr. Prakash B. Patil

Unit	Topic Code	Topic Covered	Date	Course	Section
5	25	Countouring: Definition ,Characteristics & uses of contour maps	02/02/2018	BCEL217	B
5	26	Methods of contouring.	05/02/2018	BCEL217	B
4	10	TUTORIAL-10: Revision on Full Syllabus	06/02/2018	BCEL217	B
5	27	Refraction reciprocal leveling plotting of profiles.	07/02/2018	BCEL217	B
6	28	Plane table: equipments, methods two point & three point problems. Advantages & disadvantages of plane tabling.	12/02/2018	BCEL217	B
6	29	Lehman's rules, Construction & use of minor instruments such as Abney level,	14/02/2018	BCEL217	B
6	30	Box sextant planimeter Tangent clinometer, Ghat Tracer	16/02/2018	BCEL217	B
6	31	Leveling: Definition of terms, Principle, leveling methods	23/02/2018	BCEL217	B
5	32	Refraction reciprocal leveling plotting of profiles.	26/02/2018	BCEL217	B
4	11	TUTORIAL-11: Errors in leveling.	27/02/2018	BCEL217	B
5	33	Revision on Unit 1, 2, 3, 4, 5 & 6	28/02/2018	BCEL217	B
6	34	Revision on Unit 1, 2, 3, 4, 5 & 6	05/03/2018	BCEL217	B
5	12	TUTORIAL-12: Revision on Unit 1, 2, 3, 4, 5 & 6	06/03/2018	BCEL217	B
6	35	Revision on Unit 1, 2, 3, 4, 5 & 6	07/03/2018	BCEL217	B
6	36	Revision on Unit 1, 2, 3, 4, 5 & 6	09/03/2018	BCEL217	B
6	37	Revision on Unit 1, 2, 3, 4, 5 & 6	16/03/2018	BCEL217	B
6	38	Revision on Unit 1, 2, 3, 4, 5 & 6	19/03/2018	BCEL217	B
5	13	TUTORIAL-13: Revision on Unit 1, 2, 3, 4, 5 & 6	20/03/2018	BCEL217	B
6	39	Revision on Unit 1, 2, 3, 4, 5 & 6	21/03/2018	BCEL217	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Surveying-I

Faculty : pbbpatil - Mr. Prakash B. Patil

Unit	Topic Code	Topic Covered	Date	Course	Section
6	40	Revision on Unit 1, 2, 3, 4, 5 & 6	23/03/2018	BCEL217	B
6	41	Revision on Unit 1, 2, 3, 4, 5 & 6	26/03/2018	BCEL217	B
6	14	TUTORIAL-14: Revision on Unit 1, 2, 3, 4, 5 & 6	27/03/2018	BCEL217	B
6	42	Revision on Unit 1, 2, 3, 4, 5 & 7	28/03/2018	BCEL217	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digidoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y.

Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Objective & Importance of subject for civil engineering, Introduction to IS 456 :2000	14/12/2017	BCEL422	A
1	2	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	15/12/2017	BCEL422	A
1	3	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	18/12/2017	BCEL422	A
1	4	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	19/12/2017	BCEL422	A
1	5	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	20/12/2017	BCEL422	A
1	6	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	21/12/2017	BCEL422	A
1	7	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	22/12/2017	BCEL422	A
1	8	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	01/01/2018	BCEL422	A
1	9	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure. [Topic Continued]	02/01/2018	BCEL422	A
1	10	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure.	03/01/2018	BCEL422	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y. Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
1	11	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure. [Topic Continued]	11/01/2018	BCEL422	A
1	12	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure. [Topic Continued]	12/01/2018	BCEL422	A
1	13	Limit state of serviceability: Deflection calculations for beams	15/01/2018	BCEL422	A
1	14	Limit state of serviceability: Deflection calculations for beams	16/01/2018	BCEL422	A
1	15	Limit state of serviceability: Deflection calculations for beams	17/01/2018	BCEL422	A
1	16	Limit state of serviceability: Deflection calculations for beams	18/01/2018	BCEL422	A
2	17	Analysis and design for columns subjected to biaxial moments.	19/01/2018	BCEL422	A
2	18	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	22/01/2018	BCEL422	A
2	19	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	23/01/2018	BCEL422	A
2	20	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	24/01/2018	BCEL422	A
2	21	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	25/01/2018	BCEL422	A
2	22	Design of long columns.	29/01/2018	BCEL422	A
2	23	Design of long columns.	30/01/2018	BCEL422	A
2	24	Design of long columns. [Topic Continued]	31/01/2018	BCEL422	A
2	25	Design of long columns. [Topic Continued]	01/02/2018	BCEL422	A
2	26	Design of long columns. [Topic Continued]	02/02/2018	BCEL422	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digidoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y.

Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
2	27	Design of long columns. [Topic Continued]	05/02/2018	BCEL422	A
3	28	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients.	06/02/2018	BCEL422	A
3	29	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	07/02/2018	BCEL422	A
3	30	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	08/02/2018	BCEL422	A
3	31	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	09/02/2018	BCEL422	A
3	32	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	15/02/2018	BCEL422	A
3	33	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	16/02/2018	BCEL422	A
3	34	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	23/02/2018	BCEL422	A
4	35	Design of combined footing.	26/02/2018	BCEL422	A
4	36	1. Rectangular footing	27/02/2018	BCEL422	A
4	37	2. Trapezoidal footing.	28/02/2018	BCEL422	A
4	38	2. Trapezoidal footing.	01/03/2018	BCEL422	A
4	39	Design of combined footing. [Topic Continued]	05/03/2018	BCEL422	A
4	40	Design of combined footing. [Topic Continued]	06/03/2018	BCEL422	A
4	41	Design of combined footing. [Topic Continued]	07/03/2018	BCEL422	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y.
Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
4	42	Design of combined footing. [Topic Continued]	08/03/2018	BCEL422	A
4	43	Design of combined footing. [Topic Continued]	09/03/2018	BCEL422	A
5	44	Design of RCC cantilever and counter - fort retaining walls.	12/03/2018	BCEL422	A
5	45	Design of RCC cantilever and counter - fort retaining walls.	13/03/2018	BCEL422	A
5	46	Design of RCC cantilever and counter - fort retaining walls.	14/03/2018	BCEL422	A
5	47	Design of RCC cantilever and counter - fort retaining walls.	15/03/2018	BCEL422	A
5	48	Design of RCC cantilever and counter - fort retaining walls.	16/03/2018	BCEL422	A
5	49	Design of RCC cantilever and counter - fort retaining walls.	19/03/2018	BCEL422	A
5	50	Design of RCC cantilever and counter - fort retaining walls.	20/03/2018	BCEL422	A
5	51	Design of RCC cantilever and counter - fort retaining walls.	21/03/2018	BCEL422	A
5	52	Design of RCC cantilever and counter - fort retaining walls.	22/03/2018	BCEL422	A
5	53	Revision	23/03/2018	BCEL422	A
5	54	Revision	26/03/2018	BCEL422	A
5	55	Revision	27/03/2018	BCEL422	A
5	56	Revision	28/03/2018	BCEL422	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Engineering-II

Faculty : ipkhedikar - Ms. Isha
Puranchandrababu Khedikar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction of PEOs, Pos and Cos. Discussion of Cos of the subject Unit-I Introduction and objective of Waste water treatment Quantity of storm water	14/12/2017	BCEL317	A
1	2	Domestic sewage, variation of sewage flow systems of sewerage -	19/12/2017	BCEL317	A
1	3	Separate combined and partially combined layouts of sewerage system +	20/12/2017	BCEL317	A
1	4	Separate combined and partially combined layouts of sewerage system + TAE-I is to be given	21/12/2017	BCEL317	A
1	5	Capacity of sewers, design of sewers.	01/01/2018	BCEL317	A
1	6	Capacity of sewers, design of sewers.	02/01/2018	BCEL317	A
1	7	Laying out of circular sewers-Boning rod and sight rail method. Testing and maintenance of sewer	03/01/2018	BCEL317	A
1	8	Conduction of TAE-1 and TAE-II and TAE V is to be given	08/01/2018	BCEL317	A
2	9	Unit-II Waste water characteristic, sampling of sewage,	09/01/2018	BCEL317	A
2	10	Equation, problems on B.O.D. Pollution due to domestic and industrial waste.	10/01/2018	BCEL317	A
2	11	Sewage and Industrial effluent standards for disposal on land, into stream and into sewers.	11/01/2018	BCEL317	A
2	12	Treatment of sewage - purpose of treatment, preliminary treatment, primary treatment and secondary treatment	15/01/2018	BCEL317	A
2	13	TAE-III conduction	16/01/2018	BCEL317	A
2	14	Preliminary Treatment:- Screening, Grit chamber, detritus tank,	17/01/2018	BCEL317	A
2	15	Oil and grease removal Sedimentation	18/01/2018	BCEL317	A
2	16	Conduction of TAE-II and TAE V	22/01/2018	BCEL317	A
2	17	Conduction of TAE-II and TAE V	23/01/2018	BCEL317	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Engineering-II

Faculty : ipkhedikar - Ms. Isha
Puranchandrababu Khedikar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	18	Equation, problems on B.O.D. Pollution due to domestic and industrial waste.	24/01/2018	BCEL317	A
2	19	Conventional wastewater treatment flowsheet	25/01/2018	BCEL317	A
2	20	Screening	29/01/2018	BCEL317	A
2	21	Screening and grit chamber numericals	30/01/2018	BCEL317	A
2	22	Numericals on BOD	31/01/2018	BCEL317	A
3	23	Unit-III Biological treatment: Trickling filters construction and working	01/02/2018	BCEL317	A
3	24	Low rate & high rate trickling filters Trickling filter	05/02/2018	BCEL317	A
3	25	ASP theory	06/02/2018	BCEL317	A
3	26	ASP numerical	07/02/2018	BCEL317	A
3	27	Methods of aeration, loading rates, Different modified forms of A.S.P design criteria using MLSS, MLVSS & SVI, F/M.,	12/02/2018	BCEL317	A
3	28	Hybrid reactors., biogas generation,	14/02/2018	BCEL317	A
3	29	CETP, UASB and AFB	26/02/2018	BCEL317	A
4	30	Unit-IV Low cost waste treatments - Oxidation ponds, Aerated Lagoon, Treatment and Disposal of sludge -	27/02/2018	BCEL317	A
4	31	Digestion of sludge, sludge disposal.	28/02/2018	BCEL317	A
4	32	Septic tank, working and design,	01/03/2018	BCEL317	A
4	33	BOD derivation and Problems	05/03/2018	BCEL317	A
4	34	Disposal of septic tank effluent.	06/03/2018	BCEL317	A
4	35	Disposal of sewage on land and in stream. Self purification capacity of stream.	07/03/2018	BCEL317	A
5	36	Unit- V Air Pollution: Introduction, Air pollution sources and air pollution episodes.	08/03/2018	BCEL317	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Engineering-II

Faculty : ipkhedikar - Ms. Isha
Puranchandrababu Khedikar

Unit	Topic Code	Topic Covered	Date	Course	Section
5	37	Effect of Air Pollution basic Concept..	15/03/2018	BCEL317	A
5	38	Metrology and transport of air pollution.	19/03/2018	BCEL317	A
5	39	Air pollution control mgt.	20/03/2018	BCEL317	A
5	40	legislation and emission stds	21/03/2018	BCEL317	A
6	41	Unit-VI Introduction and scope of EIA.	22/03/2018	BCEL317	A
6	42	Utility of the EIA process,	26/03/2018	BCEL317	A
6	43	Latest Trends in Environmental Management Like Green Buildings, Eco-friendly technologies, Carbon Trading,	27/03/2018	BCEL317	A
6	44	Renewable Energy sources etc. Introduction to MBR, SBR, MBBR	28/03/2018	BCEL317	A
6	45	Advanced Topic	29/03/2018	BCEL317	A



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : pbnagarnaik - Dr. Prashant B. Nagarnaik

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction of Course Objectives & Outcomes. Introduction to the subject	14/12/2017	BCEL425	A
1	2	Global and Indian scenario	19/12/2017	BCEL425	A
1	3	Global and Indian scenario	20/12/2017	BCEL425	A
1	4	National environmental policy	21/12/2017	BCEL425	A
1	5	National environmental policy	01/01/2018	BCEL425	A
1	6	Air Pollution and Control	02/01/2018	BCEL425	A
1	7	Air Pollution and Control	03/01/2018	BCEL425	A
2	8	Climate Change	08/01/2018	BCEL425	A
2	9	Climate Change	09/01/2018	BCEL425	A
2	10	Environmental organizations for planning and implementation sustainable development	10/01/2018	BCEL425	A
2	11	Environmental organizations for planning and implementation sustainable development	11/01/2018	BCEL425	A
2	12	Preventive and reactive strategies for environmental pollution control	15/01/2018	BCEL425	A
2	13	Preventive and reactive strategies for environmental pollution control	16/01/2018	BCEL425	A
3	14	Public Private Participation Model	24/01/2018	BCEL425	A
3	15	Public Private Participation Model	25/01/2018	BCEL425	A
3	16	ISO Certification, EHS, EDM.	29/01/2018	BCEL425	A
3	17	ISO Certification, EHS, EDM.	30/01/2018	BCEL425	A
3	18	Environmental impact and risk assessment Methodologies	05/02/2018	BCEL425	A
3	19	Environmental impact and risk assessment Methodologies	06/02/2018	BCEL425	A
4	20	Adhoc,	07/02/2018	BCEL425	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : pbnagarnaik - Dr. Prashant B.

Nagarnaik

Unit	Topic Code	Topic Covered	Date	Course	Section
4	21	checklist	12/02/2018	BCEL425	A
4	22	network,	13/02/2018	BCEL425	A
4	23	network,	14/02/2018	BCEL425	A
4	24	matrix	15/02/2018	BCEL425	A
4	25	Typical case studies of environmental impact assessment	20/02/2018	BCEL425	A
4	26	Typical case studies of environmental impact assessment	21/02/2018	BCEL425	A
4	27	Environmental impact statements	22/02/2018	BCEL425	A
4	28	Environmental impact statements	26/02/2018	BCEL425	A
4	29	Environmental Audit	27/02/2018	BCEL425	A
4	30	Environmental Audit	28/02/2018	BCEL425	A
5	31	Environment management Plan	01/03/2018	BCEL425	A
5	32	Environment management Plan	05/03/2018	BCEL425	A
5	33	Environment management Plan	06/03/2018	BCEL425	A
5	34	Environmental Legislation	07/03/2018	BCEL425	A
5	35	Environmental Legislation	08/03/2018	BCEL425	A
5	36	Environmental Legislation	15/03/2018	BCEL425	A
5	37	Air act	19/03/2018	BCEL425	A
5	38	Air act	20/03/2018	BCEL425	A
6	39	water act	21/03/2018	BCEL425	A
6	40	water act	22/03/2018	BCEL425	A
6	41	Environmental acts.	26/03/2018	BCEL425	A
6	42	Environmental acts.	27/03/2018	BCEL425	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : pbnagarnaik - Dr. Prashant B. Nagarnaik

Unit	Topic Code	Topic Covered	Date	Course	Section
6	43	Revision	28/03/2018	BCEL425	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : nhpitale - Nikhil H Pitale

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Explaining objectives of subject & different topics covered , background, and planning of TAE Parameters Introduction of Kani's Method applied to symmetrical and unsymmetrical frames with sway	14/12/2017	BCEL314	A
1	2	Numericals on Kani's Method applied to symmetrical frames with out sway	14/12/2017	BCEL314	A
1	3	Numericals on Kani's Method applied to symmetrical frames with out sway	18/12/2017	BCEL314	A
1	4	Numericals on Kani's Method applied to symmetrical frames with out sway	19/12/2017	BCEL314	A
1	1	Tutorial-1	20/12/2017	BCEL314	A
1	5	Numericals on Kani's Method applied to symmetrical frames with sway	21/12/2017	BCEL314	A
1	6	Numericals on Kani's Method applied to symmetrical frames with sway	21/12/2017	BCEL314	A
1	7	Numericals on Kani's Method applied to symmetrical frames with sway	01/01/2018	BCEL314	A
2	8	Numericals on Approximate method of Structural analysis for multi- storeyed frames	02/01/2018	BCEL314	A
1	2	Tutorial-2	03/01/2018	BCEL314	A
2	9	Introduction of Approximate method of Structural analysis for multi- storeyed frames with lateral loads (Portal and Cantilever method), Approximate methods for vertical loads i.e. Substitute frame method etc.(Max. three bay three storey)	08/01/2018	BCEL314	A
2	10	Numericals on Kanis method	09/01/2018	BCEL314	A
2	3	Tutorial-3	10/01/2018	BCEL314	A
2	11	Numericals on Approximate method of Structural analysis for multi- storeyed frames	11/01/2018	BCEL314	A
2	12	Numericals on Approximate method of Structural analysis for multi- storeyed frames	11/01/2018	BCEL314	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : nhpitale - Nikhil H Pitale

Unit	Topic Code	Topic Covered	Date	Course	Section
2	13	Numericals on Approximate method of Structural analysis for multi- storeyed frames with lateral loads	15/01/2018	BCEL314	A
2	14	Numericals on Approximate method of Structural analysis for multi- storeyed frames with lateral loads	16/01/2018	BCEL314	A
2	4	Tutorial-4	17/01/2018	BCEL314	A
3	15	Introduction to Column Analogy method, Application to beams, Calculations of Stiffness factors and carry over factors for non-prismatic method, Analysis of non-prismatic fixed beams.	18/01/2018	BCEL314	A
3	16	Numericals on Column Analogy method, Calculations of Stiffness factors and carry over factors for non-prismatic method,	18/01/2018	BCEL314	A
3	17	Numericals on Column Analogy method, Calculations of Stiffness factors and carry over factors for non-prismatic method,	22/01/2018	BCEL314	A
3	18	Numericals on Column Analogy method, Calculations of Stiffness factors and carry over factors for non-prismatic method,	23/01/2018	BCEL314	A
3	5	Tutorial-5	24/01/2018	BCEL314	A
3	19	Analysis of non-prismatic fixed beams.	25/01/2018	BCEL314	A
3	20	Analysis of non-prismatic fixed beams.	25/01/2018	BCEL314	A
3	21	Introduction of Introduction to Flexibility Method of structural analysis , influence coefficient , Choice of base determinate structure and redundant forces , compatibility equations. Hand solution of simple beam problems	29/01/2018	BCEL314	A
3	22	Numericals on Flexibility Method of structural analysis , influence coefficient ,	30/01/2018	BCEL314	A
3	6	Tutorial-6	31/01/2018	BCEL314	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : nhpitale - Nikhil H Pitale

Unit	Topic Code	Topic Covered	Date	Course	Section
3	23	Numericals on Flexibility Method of structural analysis , influence coefficient ,	01/02/2018	BCEL314	A
3	24	Numericals on Flexibility Method of structural analysis , influence coefficient ,	01/02/2018	BCEL314	A
3	25	Numerical on Choice of base determinate structure and redundant forces , compatibility equations. Hand solution of simple beam problems	05/02/2018	BCEL314	A
3	26	Numerical on Choice of base determinate structure and redundant forces , compatibility equations. Hand solution of simple beam problems	06/02/2018	BCEL314	A
4	7	Tutorial-7	07/02/2018	BCEL314	A
4	27	Introduction of Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , gen	12/02/2018	BCEL314	A
4	8	Tutorial-8	14/02/2018	BCEL314	A
4	28	Numerical on Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity	15/02/2018	BCEL314	A
4	29	Numerical on Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity	15/02/2018	BCEL314	A
4	30	Numerical on Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , generalized Hooks law , plane stress and plane strain problem	19/02/2018	BCEL314	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : nhpitale - Nikhil H Pitale

Unit	Topic Code	Topic Covered	Date	Course	Section
4	31	Numerical on Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , generalized Hooks law , plane stress and plane strain problem	20/02/2018	BCEL314	A
4	32	Numerical on flexibility method for beams and frames. Numerical on compatibility method for trusses,	22/02/2018	BCEL314	A
4	33	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	22/02/2018	BCEL314	A
4	34	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	26/02/2018	BCEL314	A
4	35	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	27/02/2018	BCEL314	A
5	9	Tutorial-9	28/02/2018	BCEL314	A
4	36	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	01/03/2018	BCEL314	A
5	37	Introduction of Moment distribution applied to frames with sway (up to single storey two bay)	05/03/2018	BCEL314	A
5	38	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	06/03/2018	BCEL314	A
5	10	Tutorial-10	07/03/2018	BCEL314	A
5	39	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	08/03/2018	BCEL314	A
5	40	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	15/03/2018	BCEL314	A
5	41	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	15/03/2018	BCEL314	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : nhpitale - Nikhil H Pitale

Unit	Topic Code	Topic Covered	Date	Course	Section
5	42	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	19/03/2018	BCEL314	A
6	43	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	20/03/2018	BCEL314	A
6	11	Tutorial-11	21/03/2018	BCEL314	A
6	44	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	22/03/2018	BCEL314	A
6	45	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	22/03/2018	BCEL314	A
6	46	REVISION	26/03/2018	BCEL314	A
6	47	REVISION	27/03/2018	BCEL314	A
6	12	Tutorial-12	28/03/2018	BCEL314	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Design-II

Faculty : hgsonkusare - Mr. Hemant G.

Sonkusare

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Subject Planning Vision Mission PEO PO CO	14/12/2017	BCEL316	A
1	2	Steel as a structural material, various grades of structural steel, properties of various rolled steel sections Including cold formed sections, structural pipe tube sections and their properties.	15/12/2017	BCEL316	A
1	3	Introduction to IS 800:2007	18/12/2017	BCEL316	A
1	4	Introduction of IS 800:2007	19/12/2017	BCEL316	A
1	5	Structural Fasteners : Behavior of bolted and welded connections	20/12/2017	BCEL316	A
1	6	Failure of Bolted And Welded Joint.	21/12/2017	BCEL316	A
1	7	Strength of bolt and strength of weld Efficiency of joints	22/12/2017	BCEL316	A
1	8	Design of simple bolted connections	01/01/2018	BCEL316	A
1	9	Design of simple bolted connections	02/01/2018	BCEL316	A
1	10	Design of simple welded connections	03/01/2018	BCEL316	A
1	11	Design of simple welded connections	11/01/2018	BCEL316	A
2	12	Design of axially loaded Tension members	12/01/2018	BCEL316	A
2	13	Design of axially loaded Tension members	15/01/2018	BCEL316	A
2	14	Design of axially loaded Tension members	16/01/2018	BCEL316	A
2	15	Design of axially loaded Compression members	17/01/2018	BCEL316	A
2	16	Design of axially loaded Compression members	18/01/2018	BCEL316	A
2	17	Design of axially loaded Compression members	19/01/2018	BCEL316	A
2	18	Moment resistant bolted and welded connection WorkShop Day 1	22/01/2018	BCEL316	A
2	19	Moment resistant bolted and welded connection WorkShop Day 2	23/01/2018	BCEL316	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Design-II

Faculty : hgsonkusare - Mr. Hemant G.

Sonkusare

Unit	Topic Code	Topic Covered	Date	Course	Section
2	20	Design of connection Beam to beam	24/01/2018	BCEL316	A
2	21	Design of connection Beam to beam	25/01/2018	BCEL316	A
2	22	Design of column-framed connection	29/01/2018	BCEL316	A
3	23	Design of column-framed connection	30/01/2018	BCEL316	A
3	24	Design of simple builtup beams	31/01/2018	BCEL316	A
3	25	Design of simple builtup beams	01/02/2018	BCEL316	A
3	26	Design of simple builtup beams	02/02/2018	BCEL316	A
3	27	Design of simple builtup beams	05/02/2018	BCEL316	A
3	28	Design of Laterally restrained beams	06/02/2018	BCEL316	A
3	29	Design of Laterally restrained beams	07/02/2018	BCEL316	A
3	30	Design of Laterally restrained beams	08/02/2018	BCEL316	A
3	31	Design of Laterally unrestrained beams	09/02/2018	BCEL316	A
3	32	Design of Laterally unrestrained beams	15/02/2018	BCEL316	A
3	33	Design of welded Plate Girder	16/02/2018	BCEL316	A
3	33	Design of welded Plate Girder	16/02/2018	BCEL316	A
3	34	Design of welded Plate Girder	23/02/2018	BCEL316	A
4	35	Design of welded Plate Girder	26/02/2018	BCEL316	A
4	36	Design of welded Plate Girder	27/02/2018	BCEL316	A
4	37	Concept of Gantry Girder	28/02/2018	BCEL316	A
4	38	Design of single rolled steel section column subjected to axial load and biaxial moment including base design	01/03/2018	BCEL316	A
4	39	Design of Column base	05/03/2018	BCEL316	A
4	40	Design of Column base	06/03/2018	BCEL316	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Design-II

Faculty : hgsonkusare - Mr. Hemant G. Sonkusare

Unit	Topic Code	Topic Covered	Date	Course	Section
4	41	Design of Gusseted base	07/03/2018	BCEL316	A
4	42	Design of Gusseted base	08/03/2018	BCEL316	A
4	43	Design of axially loaded built up columns Lacing	09/03/2018	BCEL316	A
4	44	Design of axially loaded built up columns Lacing	12/03/2018	BCEL316	A
4	45	Design of axially loaded built up columns Lacing	13/03/2018	BCEL316	A
4	46	Design of axially loaded built up columns Lacing	14/03/2018	BCEL316	A
4	47	Design of axially loaded built up columns Lacing	15/03/2018	BCEL316	A
4	48	Design of axially loaded built up columns Battenning	16/03/2018	BCEL316	A
4	49	Design of axially loaded built up columns Battenning	19/03/2018	BCEL316	A
4	50	Design of axially loaded built up columns Battenning	20/03/2018	BCEL316	A
4	51	Design of axially loaded built up columns Battenning	21/03/2018	BCEL316	A
5	52	Revision of Unit 1	22/03/2018	BCEL316	A
5	53	Revision of Unit 2	23/03/2018	BCEL316	A
5	54	Revision of Unit 3	26/03/2018	BCEL316	A
5	55	Revision of Unit 4	27/03/2018	BCEL316	A
5	56	Discussion on Previous Question papers	28/03/2018	BCEL316	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : bmadali - Biswanath Madali

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction	04/12/2017	BCEL319	A
1	2	IRRIGATION- Necessity and importance of irrigation engineering, Classification of irrigation in details	05/12/2017	BCEL319	A
1	3	comparative study of drip , sprinkler and lift irrigation	06/12/2017	BCEL319	A
1	4	suitable soil for irrigation, standard quality of water, depth and frequency of irrigation	07/12/2017	BCEL319	A
1	5	field capacity, wilting point, base ,delta, duty	11/12/2017	BCEL319	A
1	6	relation between delta and duty, numericals related to that	12/12/2017	BCEL319	A
1	7	factors affecting duty, principal crops in India. Methods of assessment of irrigation water.	13/12/2017	BCEL319	A
1	8	numericals based on the whole unit-I	14/12/2017	BCEL319	A
2	9	Reservoir planning :site selection, preliminary survey ,all the bench marks settings	18/12/2017	BCEL319	A
2	10	different storage zones in reservoir, determination of storage capacity	19/12/2017	BCEL319	A
2	11	reservoir sedimentation, reservoir operation and scheduling	20/12/2017	BCEL319	A
2	12	hydraulic design and materials of dam	21/12/2017	BCEL319	A
2	13	classification of dams as per use, factors governing selection of types of dams	26/12/2017	BCEL319	A
3	14	gravity dam; factors affecting a gravity dam	27/12/2017	BCEL319	A
3	15	theoretical and practical profile of gravity dam	28/12/2017	BCEL319	A
3	16	low and high dams ,galleries	02/01/2018	BCEL319	A
3	17	earthen dam, description of all parts of earthen dam foundation	03/01/2018	BCEL319	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : bmadali - Biswanath Madali

Unit	Topic Code	Topic Covered	Date	Course	Section
3	18	seepage through body of earthen dam and drainage arrangements	04/01/2018	BCEL319	A
3	19	failure of earthen dam, phreatic line	08/01/2018	BCEL319	A
3	20	stability of earthen dam against shear	09/01/2018	BCEL319	A
3	21	barrages , types of barrages	10/01/2018	BCEL319	A
3	22	advantages and disadvantages of barrages	11/01/2018	BCEL319	A
3	23	numericals based on the whole unit-III	15/01/2018	BCEL319	A
4	24	introduction to spillway, types of spillway	16/01/2018	BCEL319	A
4	25	working operation of different types of spillway	17/01/2018	BCEL319	A
4	26	principle of design of ogee spillway	18/01/2018	BCEL319	A
4	27	spillway gates , vertical lifts, radial , rolling and drum	22/01/2018	BCEL319	A
4	28	energy dissipation methods of spillways, hydraulic jump	23/01/2018	BCEL319	A
4	29	deflating high velocity flow	24/01/2018	BCEL319	A
4	30	diversion work heads ,component parts	25/01/2018	BCEL319	A
4	31	fish ladder,guide wall,silt ejector	29/01/2018	BCEL319	A
4	32	causes of failure of weirs	30/01/2018	BCEL319	A
4	33	Bligh's creep theory , numerical based on this method	31/01/2018	BCEL319	A
4	34	khosla's theory, numerical	01/02/2018	BCEL319	A
4	35	numerical based on the whole unit-IV	05/02/2018	BCEL319	A
5	36	Types of canal,cross section of irrigation canal	06/02/2018	BCEL319	A
5	37	losses in canals	07/02/2018	BCEL319	A
5	38	kennedy's silt theory, design procedure	08/02/2018	BCEL319	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : bmadali - Biswanath Madali

Unit	Topic Code	Topic Covered	Date	Course	Section
5	39	silt supporting capacity, drawbacks and numericals based on Kennedy's theory	12/02/2018	BCEL319	A
5	40	Lacey's silt theory	13/02/2018	BCEL319	A
5	41	Lacey's regime equation, channel design procedure	14/02/2018	BCEL319	A
5	42	Garret's diagrams for channel design	15/02/2018	BCEL319	A
5	43	numerical based on the above diagram	20/02/2018	BCEL319	A
5	44	design procedure of lined canal, types	21/02/2018	BCEL319	A
5	45	merits and demerit of canal lining	22/02/2018	BCEL319	A
5	46	Introduction to computational fluid dynamics	26/02/2018	BCEL319	A
6	47	introduction to canal regulator works	27/02/2018	BCEL319	A
6	48	classification and components of head regulator	28/02/2018	BCEL319	A
6	49	cross regulator, canal escapes	05/03/2018	BCEL319	A
6	50	introduction to cross drainage works	06/03/2018	BCEL319	A
6	51	theoretical aspects of location, objects	07/03/2018	BCEL319	A
6	52	classification and components of cross regulator	08/03/2018	BCEL319	A
6	53	siphon, aqueduct, super passage, level crossing	12/03/2018	BCEL319	A
6	54	water logging and land drainage (causes, effects, preventives)	13/03/2018	BCEL319	A
6	55	types of drain, layout of tile drain system	14/03/2018	BCEL319	A
6	56	definition and classification of river training works	15/03/2018	BCEL319	A
6	57	groynes and spurs, bank protection	19/03/2018	BCEL319	A
6	58	numerical based on the whole unit-VI	20/03/2018	BCEL319	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : bmadali - Biswanath Madali

Unit	Topic Code	Topic Covered	Date	Course	Section
0	59	revision	21/03/2018	BCEL319	A
3	60	revision	22/03/2018	BCEL319	A
4	61	revision	26/03/2018	BCEL319	A
5	62	revision	27/03/2018	BCEL319	A
6	63	revision	28/03/2018	BCEL319	A



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y.

Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction	04/12/2017	BCEL422	B
1	2	Limit State Method of design	05/12/2017	BCEL422	B
1	1	Objective & Importance of subject for civil engineering, Introduction to IS 456 :2000	14/12/2017	BCEL422	B
1	2	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	15/12/2017	BCEL422	B
1	3	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	18/12/2017	BCEL422	B
1	4	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	19/12/2017	BCEL422	B
1	5	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	20/12/2017	BCEL422	B
1	6	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	21/12/2017	BCEL422	B
1	7	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	22/12/2017	BCEL422	B
1	8	Limit state of collapse and flexure: Analysis and design of doubly reinforced rectangular, Tee and L-sections.	01/01/2018	BCEL422	B
1	9	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure. [Topic Continued]	02/01/2018	BCEL422	B
1	10	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure.	03/01/2018	BCEL422	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y. Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
1	11	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure. [Topic Continued]	11/01/2018	BCEL422	B
1	12	Limit state of collapse in torsion: Concept of interaction of torsion, shear and flexure. Analysis and design of rectangular section for torsion shear and flexure. [Topic Continued]	12/01/2018	BCEL422	B
1	13	Limit state of serviceability: Deflection calculations for beams	15/01/2018	BCEL422	B
1	14	Limit state of serviceability: Deflection calculations for beams	16/01/2018	BCEL422	B
1	15	Limit state of serviceability: Deflection calculations for beams	17/01/2018	BCEL422	B
1	16	Limit state of serviceability: Deflection calculations for beams	18/01/2018	BCEL422	B
2	17	Analysis and design for columns subjected to biaxial moments.	19/01/2018	BCEL422	B
2	18	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	22/01/2018	BCEL422	B
2	19	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	23/01/2018	BCEL422	B
2	20	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	24/01/2018	BCEL422	B
2	21	Analysis and design for columns subjected to biaxial moments. [Topic Continued]	25/01/2018	BCEL422	B
2	22	Design of long columns.	29/01/2018	BCEL422	B
2	23	Design of long columns.	30/01/2018	BCEL422	B
2	24	Design of long columns. [Topic Continued]	31/01/2018	BCEL422	B
2	25	Design of long columns. [Topic Continued]	01/02/2018	BCEL422	B
2	26	Design of long columns. [Topic Continued]	02/02/2018	BCEL422	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road,Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y.

Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
2	27	Design of long columns. [Topic Continued]	05/02/2018	BCEL422	B
3	28	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients.	06/02/2018	BCEL422	B
3	29	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	07/02/2018	BCEL422	B
3	30	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	08/02/2018	BCEL422	B
3	31	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	09/02/2018	BCEL422	B
3	32	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	15/02/2018	BCEL422	B
3	33	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	16/02/2018	BCEL422	B
3	34	Design of RCC Two way slab with various end conditions using IS 456-2000 coefficients. [Topic Continued]	23/02/2018	BCEL422	B
4	35	Design of combined footing.	26/02/2018	BCEL422	B
4	36	1. Rectangular footing	27/02/2018	BCEL422	B
4	37	2. Trapezoidal footing.	28/02/2018	BCEL422	B
4	38	2. Trapezoidal footing.	01/03/2018	BCEL422	B
4	39	Design of combined footing. [Topic Continued]	05/03/2018	BCEL422	B
4	40	Design of combined footing. [Topic Continued]	06/03/2018	BCEL422	B
4	41	Design of combined footing. [Topic Continued]	07/03/2018	BCEL422	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Advanced Structural Design

Faculty : pypawade - Mr. Prashant Y.

Pawade

Unit	Topic Code	Topic Covered	Date	Course	Section
4	42	Design of combined footing. [Topic Continued]	08/03/2018	BCEL422	B
4	43	Design of combined footing. [Topic Continued]	09/03/2018	BCEL422	B
5	44	Design of RCC cantilever and counter - fort retaining walls.	12/03/2018	BCEL422	B
5	45	Design of RCC cantilever and counter - fort retaining walls.	13/03/2018	BCEL422	B
5	46	Design of RCC cantilever and counter - fort retaining walls.	14/03/2018	BCEL422	B
5	47	Design of RCC cantilever and counter - fort retaining walls.	15/03/2018	BCEL422	B
5	48	Design of RCC cantilever and counter - fort retaining walls.	16/03/2018	BCEL422	B
5	49	Design of RCC cantilever and counter - fort retaining walls.	19/03/2018	BCEL422	B
5	50	Design of RCC cantilever and counter - fort retaining walls.	20/03/2018	BCEL422	B
5	51	Design of RCC cantilever and counter - fort retaining walls.	21/03/2018	BCEL422	B
5	52	Design of RCC cantilever and counter - fort retaining walls.	22/03/2018	BCEL422	B
5	53	Revision	23/03/2018	BCEL422	B
5	54	Revision	26/03/2018	BCEL422	B
5	55	Revision	27/03/2018	BCEL422	B
5	56	Revision	28/03/2018	BCEL422	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Engineering-II

Faculty : mpbhorkar - M P Bhorkar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction of PEOs, Pos and Cos. Discussion of Cos of the subject Unit-I Introduction and objective of Waste water treatment Quantity of storm water	14/12/2017	BCEL317	B
1	2	Domestic sewage, variation of sewage flow systems of sewerage -	15/12/2017	BCEL317	B
1	3	Separate combined and partially combined layouts of sewerage system + TAE-I to be given	18/12/2017	BCEL317	B
1	4	Capacity of sewers, design of sewers.	19/12/2017	BCEL317	B
1	5	Laying out of circular sewers-Boning rod and sight rail method. Testing and maintenance of sewer	21/12/2017	BCEL317	B
1	6	TAE-I	22/12/2017	BCEL317	B
2	7	Unit-II Waste water characteristic, sampling of sewage,	01/01/2018	BCEL317	B
2	8	Physical, chemical and biological characterization, B.O.D., C.O.D., TOC, B.O.D..	02/01/2018	BCEL317	B
2	9	Equation, problems on B.O.D. Pollution due to domestic and industrial waste.	08/01/2018	BCEL317	B
2	10	Sewage and Industrial effluent standards for disposal on land, into stream and into sewers.	09/01/2018	BCEL317	B
2	11	TAE-II	11/01/2018	BCEL317	B
2	12	Treatment of sewage - purpose of treatment, preliminary treatment, primary treatment and secondary treatment	12/01/2018	BCEL317	B
2	13	Preliminary Treatment:- Screening, Grit chamber, detritus tank,	15/01/2018	BCEL317	B
2	14	Oil and grease removal Sedimentation	16/01/2018	BCEL317	B
2	15	Equation, problems on B.O.D. Pollution due to domestic and industrial waste.	18/01/2018	BCEL317	B
2	16	TAE poster and Presentation	19/01/2018	BCEL317	B
2	17	TAE poster and Presentation	25/01/2018	BCEL317	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road,Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Engineering-II

Faculty : mpbhorkar - M P Bhorkar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	18	TAE poster and Presentation	26/01/2018	BCEL317	B
3	19	Unit-III Biological treatment: Trickling filters, low rate & high rate tricking filters	29/01/2018	BCEL317	B
3	20	ASP	30/01/2018	BCEL317	B
3	21	Methods of aeration, loading rates, Different modified forms of A.S.P	02/02/2018	BCEL317	B
3	22	design criteria using MLSS, MLVSS & SVI,F/M.,	05/02/2018	BCEL317	B
3	23	Hybrid reactors., biogas generation,	06/02/2018	BCEL317	B
3	24	concept of CETP	12/02/2018	BCEL317	B
4	25	Unit-IV Low cost waste treatments - Oxidation ponds, Aerated Lagoon, Treatment and Disposal of sludge -	13/02/2018	BCEL317	B
4	26	Digestion of sludge, sludge disposal.	15/02/2018	BCEL317	B
4	27	Septic tank, working and design,	16/02/2018	BCEL317	B
4	28	Disposal of septic tank effluent.	23/02/2018	BCEL317	B
4	29	Disposal of sewage on land and in stream. Self purification capacity of stream.	26/02/2018	BCEL317	B
5	30	Unit- V Latest Trends in Environmental Management	27/02/2018	BCEL317	B
5	31	Air Pollution: Introduction, Air pollution sources and air pollution episodes.	01/03/2018	BCEL317	B
5	32	Effect of Air Pollution basic Concept..Metrology and transport of air pollution. Air pollution control mgt.legislation and emission stds	02/03/2018	BCEL317	B
5	33	. Introduction to MBR, SRR, MBBR ,Green Buildings, Ecofriendly technologies, Carbon Trading, Renewable Energy sources etc.	05/03/2018	BCEL317	B
5	34	Introduction and scope, utility of the EIA process	06/03/2018	BCEL317	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Engineering-II

Faculty : mpbhorkar - M P Bhorkar

Unit	Topic Code	Topic Covered	Date	Course	Section
5	35	expanded and narrowed scope of EIA, impacts of development activities, planning and management of impact studies.	08/03/2018	BCEL317	B
5	36	Environmental attributes, environmental indices and indicators,	09/03/2018	BCEL317	B
5	37	environmental assessment, methods and techniques	15/03/2018	BCEL317	B
6	38	Unit VI matrices network and checklist methods.	16/03/2018	BCEL317	B
6	39	prediction techniques for quality of environmental attributes.	19/03/2018	BCEL317	B
6	40	revision	20/03/2018	BCEL317	B
6	41	revision	22/03/2018	BCEL317	B
6	42	revision	23/03/2018	BCEL317	B
6	43	revision	26/03/2018	BCEL317	B
6	44	revision	27/03/2018	BCEL317	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Global and Indian scenario	04/12/2017	BCEL425	B
1	2	Global and Indian scenario	05/12/2017	BCEL425	B
1	3	National environmental policy	06/12/2017	BCEL425	B
1	4	National environmental policy	07/12/2017	BCEL425	B
1	5	National environmental policy	11/12/2017	BCEL425	B
1	6	Introduction on Air Pollution	12/12/2017	BCEL425	B
1	7	Introduction on Air Pollution	13/12/2017	BCEL425	B
2	8	Introduction on Air Pollution	14/12/2017	BCEL425	B
2	9	Introduction on Air Pollution	18/12/2017	BCEL425	B
2	10	Air Pollution and Control	19/12/2017	BCEL425	B
2	11	Air Pollution and Control	20/12/2017	BCEL425	B
2	12	Climate Change	21/12/2017	BCEL425	B
2	13	Climate Change	26/12/2017	BCEL425	B
2	14	Climate Change	27/12/2017	BCEL425	B
2	15	Climate Change	28/12/2017	BCEL425	B
3	16	Public Private Participation Model	01/01/2018	BCEL425	B
3	17	Public Private Participation Model	02/01/2018	BCEL425	B
3	18	ISO Certification, EHS, EDM.	03/01/2018	BCEL425	B
3	19	ISO Certification, EHS, EDM.	04/01/2018	BCEL425	B
3	20	Environmental organizations for planning and implementation sustainable development Preventive and reactive strategies for environmental pollution control	08/01/2018	BCEL425	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
3	21	Environmental organizations for planning and implementation sustainable development Preventive and reactive strategies for environmental pollution control	09/01/2018	BCEL425	B
3	22	Environmental organizations for planning and implementation sustainable development Preventive and reactive strategies for environmental pollution control	10/01/2018	BCEL425	B
4	23	Environmental impact Assessment	11/01/2018	BCEL425	B
4	24	Environmental impact Assessment	15/01/2018	BCEL425	B
4	25	Environmental impact Assessment	16/01/2018	BCEL425	B
4	26	risk assessment Methodologies	17/01/2018	BCEL425	B
4	27	Risk methodologies Adhoc, checklist, network	18/01/2018	BCEL425	B
4	28	Risk methodologies Adhoc, checklist, network	22/01/2018	BCEL425	B
4	29	Risk methodologies matrix method	23/01/2018	BCEL425	B
4	30	Typical case studies of environmental impact assessment	24/01/2018	BCEL425	B
4	31	Typical case studies of environmental impact assessment	25/01/2018	BCEL425	B
5	32	Typical case studies of environmental impact assessment	29/01/2018	BCEL425	B
5	33	Environmental impact statements	30/01/2018	BCEL425	B
5	34	Environmental impact statements	31/01/2018	BCEL425	B
5	35	Environmental impact statements	01/02/2018	BCEL425	B
5	36	Environmental Audit	05/02/2018	BCEL425	B
5	37	Environmental Audit	06/02/2018	BCEL425	B
5	38	Environmental Audit	07/02/2018	BCEL425	B
5	39	Environment management Plan	08/02/2018	BCEL425	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
5	40	Environment management Plan	19/02/2018	BCEL425	B
5	41	Environment management Plan	20/02/2018	BCEL425	B
6	42	Environmental Legislation	21/02/2018	BCEL425	B
6	43	Environmental Legislation	22/02/2018	BCEL425	B
6	44	Environmental Legislation	26/02/2018	BCEL425	B
6	45	Air, water and Environmental acts	27/02/2018	BCEL425	B
6	46	Air, water and Environmental acts	28/02/2018	BCEL425	B
6	47	Air, water and Environmental acts	01/03/2018	BCEL425	B
1	48	Revision of unit 1	05/03/2018	BCEL425	B
1	49	Revision of unit 1	06/03/2018	BCEL425	B
2	50	Revision of unit 2	07/03/2018	BCEL425	B
2	51	Revision of unit 2	08/03/2018	BCEL425	B
3	52	Revision of unit 3	12/03/2018	BCEL425	B
3	53	Revision of unit 3	13/03/2018	BCEL425	B
3	54	Revision of unit 3	14/03/2018	BCEL425	B
4	55	Revision of unit 4	15/03/2018	BCEL425	B
4	56	Revision of unit 4	19/03/2018	BCEL425	B
4	57	Revision of unit 4	20/03/2018	BCEL425	B
5	58	Revision of unit 5	21/03/2018	BCEL425	B
5	59	Revision of unit 5	22/03/2018	BCEL425	B
5	60	Revision of unit 5	26/03/2018	BCEL425	B
6	61	Revision of unit 6	27/03/2018	BCEL425	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Environmental Management

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
6	62	Revision of unit 6	28/03/2018	BCEL425	B
6	63	Revision of unit 6	29/03/2018	BCEL425	B
0	0		30/03/2018	BCEL425	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : krdabhekar - Mr. Kuldeep R. Dabhekar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Explaining objectives of subject & different topics covered , background, and planning of TAE Parameters Introduction of Kani's Method applied to symmetrical and unsymmetrical frames with sway	11/12/2017	BCEL314	B
1	1	TUTORIAL NO 1 :- Explaining objectives of subject & different topics covered , background, and planning of TAE Parameters Introduction of Kani's Method applied to symmetrical and unsymmetrical frames with sway	11/12/2017	BCEL314	B
1	2	Numericals on Kani's Method applied to symmetrical frames with out sway	12/12/2017	BCEL314	B
1	3	Numericals on Kani's Method applied to symmetrical frames with out sway	14/12/2017	BCEL314	B
1	4	Numericals on Kani's Method applied to symmetrical frames with out sway	14/12/2017	BCEL314	B
1	2	TUTORIAL NO 2 :-Numericals on Kani's Method applied to symmetrical frames with sway	18/12/2017	BCEL314	B
1	5	Numericals on Kani's Method applied to symmetrical frames with sway	18/12/2017	BCEL314	B
1	6	Numericals on Kani's Method applied to symmetrical frames with sway	19/12/2017	BCEL314	B
1	7	Numericals on Kani's Method applied to symmetrical frames with sway	21/12/2017	BCEL314	B
2	8	Numericals on Approximate method of Structural analysis for multi- storeyed frames	21/12/2017	BCEL314	B
2	3	TUTORIAL NO 3 :-Introduction of Approximate method of Structural analysis for multi- storeyed frames with lateral loads (Portal and Cantilever method), Approximate methods for vertical loads i.e. Substitute frame method etc.(Max. three bay three storey)	01/01/2018	BCEL314	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : krdabhekar - Mr. Kuldeep R. Dabhekar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	9	Introduction of Approximate method of Structural analysis for multi-storeyed frames with lateral loads (Portal and Cantilever method), Approximate methods for vertical loads i.e. Substitute frame method etc.(Max. three bay three storey)	01/01/2018	BCEL314	B
2	10	Numericals on Kanis method	02/01/2018	BCEL314	B
2	4	TUTORIAL NO 4 :-Numericals on Approximate method of Structural analysis for multi- storeyed frames	08/01/2018	BCEL314	B
2	11	Numericals on Approximate method of Structural analysis for multi- storeyed frames	08/01/2018	BCEL314	B
2	12	Numericals on Approximate method of Structural analysis for multi- storeyed frames	09/01/2018	BCEL314	B
2	13	Numericals on Approximate method of Structural analysis for multi- storeyed frames with lateral loads	11/01/2018	BCEL314	B
2	14	Numericals on Approximate method of Structural analysis for multi- storeyed frames with lateral loads	11/01/2018	BCEL314	B
3	5	TUTORIAL NO 5 :-Introduction to Column Analogy method, Application to beams, Calculations of Stiffness factors and carry over factors for non-prismatic method, Analysis of non-prismatic fixed beams.	15/01/2018	BCEL314	B
3	15	Introduction to Column Analogy method, Application to beams, Calculations of Stiffness factors and carry over factors for non-prismatic method, Analysis of non-prismatic fixed beams.	15/01/2018	BCEL314	B
3	16	Numericals on Column Analogy method, Calculations of Stiffness factors and carry over factors for non-prismatic method,	16/01/2018	BCEL314	B
3	17	Numericals on Column Analogy method, Calculations of Stiffness factors and carry over factors for non-prismatic method,	18/01/2018	BCEL314	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : krdabhekar - Mr. Kuldeep R.

Dabhekar

Unit	Topic Code	Topic Covered	Date	Course	Section
3	18	Numericals on Column Analogy method, Calculations of Stiffness factors and carry over factors for non-prismatic method,	18/01/2018	BCEL314	B
3	6	TUTORIAL NO 6 :-Analysis of non-prismatic fixed beams.	22/01/2018	BCEL314	B
3	19	Analysis of non-prismatic fixed beams.	22/01/2018	BCEL314	B
3	20	Analysis of non-prismatic fixed beams.	23/01/2018	BCEL314	B
4	21	Introduction of Introduction to Flexibility Method of structural analysis , influence coefficient , Choice of base determinate structure and redundant forces , compatibility equations. Hand solution of simple beam problems	25/01/2018	BCEL314	B
4	22	Numericals on Flexibility Method of structural analysis , influence coefficient ,	25/01/2018	BCEL314	B
4	7	TUTORIAL NO 7 :-Numericals on Flexibility Method of structural analysis , influence coefficient ,	29/01/2018	BCEL314	B
4	23	Numericals on Flexibility Method of structural analysis , influence coefficient ,	29/01/2018	BCEL314	B
4	24	Numericals on Flexibility Method of structural analysis , influence coefficient ,	30/01/2018	BCEL314	B
4	25	Numerical on Choice of base determinate structure and redundant forces , compatibility equations. Hand solution of simple beam problems	01/02/2018	BCEL314	B
4	26	Numerical on Choice of base determinate structure and redundant forces , compatibility equations. Hand solution of simple beam problems	01/02/2018	BCEL314	B
5	8	TUTORIAL NO 8 :-Introduction of Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , gen	05/02/2018	BCEL314	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : krdabhekar - Mr. Kuldeep R. Dabhekar

Unit	Topic Code	Topic Covered	Date	Course	Section
5	27	Introduction of Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , gen	05/02/2018	BCEL314	B
5	28	Numerical on Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity	06/02/2018	BCEL314	B
5	9	TUTORIAL NO 9 :-Numerical on Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity	12/02/2018	BCEL314	B
5	29	Numerical on Strain energy method applied to simple composite structures (Simple problems), Introduction to basic theory of elasticity	12/02/2018	BCEL314	B
5	30	Numerical on Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , generalized Hooks law , plane stress and plane strain problem	15/02/2018	BCEL314	B
5	31	Numerical on Introduction to basic theory of elasticity , Concept of stress , strains, strain displacement relationship , equation of equilibrium , boundary conditions , generalized Hooks law , plane stress and plane strain problem	15/02/2018	BCEL314	B
5	10	TUTORIAL NO 10 :-Numerical on flexibility method for beams and frames. Numerical on compatibility method for trusses,	26/02/2018	BCEL314	B
5	32	Numerical on flexibility method for beams and frames. Numerical on compatibility method for trusses,	26/02/2018	BCEL314	B
5	33	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	27/02/2018	BCEL314	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : krdabhekar - Mr. Kuldeep R.

Dabhekar

Unit	Topic Code	Topic Covered	Date	Course	Section
5	34	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	01/03/2018	BCEL314	B
5	35	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	01/03/2018	BCEL314	B
5	11	TUTORIAL NO 11 :-Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	05/03/2018	BCEL314	B
5	36	Numerical on Theory of photo elasticity applied to beams. Study of various types of strain gauges , Analysis of strains by stain gauges	05/03/2018	BCEL314	B
6	37	Introduction of Moment distribution applied to frames with sway (up to single storey two bay)	06/03/2018	BCEL314	B
6	38	Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	08/03/2018	BCEL314	B
6	39	Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	08/03/2018	BCEL314	B
6	40	Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	15/03/2018	BCEL314	B
6	41	Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	15/03/2018	BCEL314	B
6	12	TUTORIAL NO 12 :-Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	19/03/2018	BCEL314	B
6	42	Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	19/03/2018	BCEL314	B
6	43	Numerical onMoment distribution applied to frames with sway (up to single storey two bay)	20/03/2018	BCEL314	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Dighod Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Analysis-II

Faculty : krdabhekar - Mr. Kuldeep R.

Dabhekar

Unit	Topic Code	Topic Covered	Date	Course	Section
6	44	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	22/03/2018	BCEL314	B
6	45	Numerical on Moment distribution applied to frames with sway (up to single storey two bay)	22/03/2018	BCEL314	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Design-II

Faculty : naswarnakar - Naveen.A.

Swarnakar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Subject Planning Vision Mission PEO PO CO	15/12/2017	BCEL316	B
1	2	Steel as a structural material, various grades of structural steel, properties of various rolled steel sections Including cold formed sections, structural pipe tube sections and their properties.	19/12/2017	BCEL316	B
1	3	Introduction to IS 800:2007	19/12/2017	BCEL316	B
1	4	Introduction of IS 800:2007	20/12/2017	BCEL316	B
1	5	Structural Fasteners : Behavior of bolted and welded connections	20/12/2017	BCEL316	B
1	6	Failure of Bolted And Welded Joint.	22/12/2017	BCEL316	B
1	7	Strength of bolt and strength of weld Efficiency of joints	02/01/2018	BCEL316	B
1	8	Design of simple bolted connections	02/01/2018	BCEL316	B
1	9	Design of simple bolted connections	03/01/2018	BCEL316	B
1	10	Design of simple welded connections	03/01/2018	BCEL316	B
1	11	Design of simple welded connections	12/01/2018	BCEL316	B
2	12	Design of axially loaded Tension members	16/01/2018	BCEL316	B
2	13	Design of axially loaded Tension members	16/01/2018	BCEL316	B
2	14	Design of axially loaded Tension members	17/01/2018	BCEL316	B
2	15	Design of axially loaded Compression members	17/01/2018	BCEL316	B
2	16	Design of axially loaded Compression members	19/01/2018	BCEL316	B
2	17	Design of axially loaded Compression members	23/01/2018	BCEL316	B
2	18	Moment resistant bolted and welded connection WorkShop Day 1	23/01/2018	BCEL316	B
2	19	Moment resistant bolted and welded connection WorkShop Day 2	24/01/2018	BCEL316	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Design-II

Faculty : naswarnakar - Naveen.A.

Swarnakar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	20	Design of connection Beam to beam	24/01/2018	BCEL316	B
2	21	Design of connection Beam to beam	30/01/2018	BCEL316	B
2	22	Design of column-framed connection	30/01/2018	BCEL316	B
3	23	Design of column-framed connection	31/01/2018	BCEL316	B
3	24	Design of simple builtup beams	31/01/2018	BCEL316	B
3	25	Design of simple builtup beams	02/02/2018	BCEL316	B
3	26	Design of simple builtup beams	06/02/2018	BCEL316	B
3	27	Design of simple builtup beams	06/02/2018	BCEL316	B
3	28	Design of Laterally restrained beams	07/02/2018	BCEL316	B
3	29	Design of Laterally restrained beams	07/02/2018	BCEL316	B
3	30	Design of Laterally restrained beams	09/02/2018	BCEL316	B
3	31	Design of Laterally unrestrained beams	16/02/2018	BCEL316	B
3	32	Design of Laterally unrestrained beams	20/02/2018	BCEL316	B
3	33	Design of welded Plate Girder	20/02/2018	BCEL316	B
3	34	Design of welded Plate Girder	21/02/2018	BCEL316	B
4	35	Design of welded Plate Girder	21/02/2018	BCEL316	B
4	36	Design of welded Plate Girder	23/02/2018	BCEL316	B
4	37	Concept of Gantry Girder	27/02/2018	BCEL316	B
4	38	Design of single rolled steel section column subjected to axial load and biaxial moment including base design	27/02/2018	BCEL316	B
4	39	Design of Column base	28/02/2018	BCEL316	B
4	40	Design of Column base	28/02/2018	BCEL316	B
4	41	Design of Gusseted base	06/03/2018	BCEL316	B



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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Structural Design-II

Faculty : naswarnakar - Naveen.A.

Swarnakar

Unit	Topic Code	Topic Covered	Date	Course	Section
4	42	Design of Gusseted base	06/03/2018	BCEL316	B
4	43	Design of axially loaded built up columns Lacing	07/03/2018	BCEL316	B
4	44	Design of axially loaded built up columns Lacing	07/03/2018	BCEL316	B
4	45	Design of axially loaded built up columns Lacing	09/03/2018	BCEL316	B
4	46	Design of axially loaded built up columns Lacing	13/03/2018	BCEL316	B
4	47	Design of axially loaded built up columns Lacing	13/03/2018	BCEL316	B
4	48	Design of axially loaded built up columns Battenning	14/03/2018	BCEL316	B
4	49	Design of axially loaded built up columns Battenning	14/03/2018	BCEL316	B
4	50	Design of axially loaded built up columns Battenning	16/03/2018	BCEL316	B
4	51	Design of axially loaded built up columns Battenning	20/03/2018	BCEL316	B
5	52	Revision of Unit 1	20/03/2018	BCEL316	B
5	53	Revision of Unit 2	21/03/2018	BCEL316	B
5	54	Revision of Unit 3	21/03/2018	BCEL316	B
5	55	Revision of Unit 4	23/03/2018	BCEL316	B
5	56	Discussion on Previous Question papers	27/03/2018	BCEL316	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Necessity and importance of irrigation Engineering	04/12/2017	BCEL319	B
1	2	Necessity and importance of irrigation Engineering	06/12/2017	BCEL319	B
1	3	Benefits & ill effects of irrigation	07/12/2017	BCEL319	B
1	4	Benefits & ill effects of irrigation	08/12/2017	BCEL319	B
1	5	Classification of irrigation	11/12/2017	BCEL319	B
1	6	Classification of irrigation	13/12/2017	BCEL319	B
1	7	General principles of flow, lift, perennial, inundation irrigation systems	14/12/2017	BCEL319	B
1	8	Lift Irrigation, components and general layout.	15/12/2017	BCEL319	B
1	9	Suitability of soils for Irrigation; Standards of irrigation water	18/12/2017	BCEL319	B
1	10	PET-R method of crop water requirements	20/12/2017	BCEL319	B
1	11	Depth & frequency of irrigation ; definitions of field capacity, wilting point, available moisture, duty, delta, GCA,CCA, kor depth , base period , outlet factor, capacity factor , time factor, root zone depth: Relation between duty & delta ; Factors affe	21/12/2017	BCEL319	B
1	12	Depth & frequency of irrigation ; definitions of field capacity, wilting point, available moisture, duty, delta, GCA,CCA, kor depth , base period , outlet factor, capacity factor , time factor, root zone depth: Relation between duty & delta ; Factors affe	22/12/2017	BCEL319	B
1	13	Principal crops in India; Crop	27/12/2017	BCEL319	B
1	14	Methods of assessment of irrigation water	28/12/2017	BCEL319	B
2	15	Selection of site for Reservoirs	29/12/2017	BCEL319	B
2	16	Engineering surveys, Geological and Hydrological investigations	01/01/2018	BCEL319	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road,Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
2	17	Fixing of LWL, FTL, HFL, TBL; Different storage zones, in reservoirs;	03/01/2018	BCEL319	B
2	18	Determination of storage capacity by mass curve method	04/01/2018	BCEL319	B
2	19	Reservoir sedimentation; life estimation of reservoir by Bruner method	05/01/2018	BCEL319	B
2	20	Organization & Administration of irrigation projects	08/01/2018	BCEL319	B
2	21	Reservoir operation and scheduling.	10/01/2018	BCEL319	B
2	22	Classification of Dams as per use	11/01/2018	BCEL319	B
2	23	hydraulic design and materials	12/01/2018	BCEL319	B
2	24	Factors governing selection of type of Dams.	15/01/2018	BCEL319	B
3	25	Definition, forces acting on gravity dam	17/01/2018	BCEL319	B
3	26	stability requirements, Theoretical & practical profile of gravity dam	18/01/2018	BCEL319	B
3	27	stability requirements, Theoretical & practical profile of gravity dam	19/01/2018	BCEL319	B
3	28	Low & High dam, Galleries.	22/01/2018	BCEL319	B
3	29	Types of earthen dam	24/01/2018	BCEL319	B
3	30	Description of component parts of earthen dams foundation, cut of trench, rock toe, hearting, central impervious core, pitching and chipping turfing	25/01/2018	BCEL319	B
3	31	Description of component parts of earthen dams foundation, cut of trench, rock toe, hearting, central impervious core, pitching and chipping turfing	29/01/2018	BCEL319	B
3	32	Seepage through body of earthen dam and drainage arrangements	31/01/2018	BCEL319	B
3	33	Failure of earthen dams, plotting of phreatic line for homogeneous earthen dams with horizontal filters	01/02/2018	BCEL319	B



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

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CRPF Gate No.3, Hingna Road, Digidoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer 2018

Course : Water Resources Engineering-II

Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
3	34	Stability of foundation against shear.	02/02/2018	BCEL319	B
3	35	Types of Barrages	05/02/2018	BCEL319	B
3	36	Barrages, Advantages/Disadvantages.	07/02/2018	BCEL319	B
4	37	Types of spillway with their working operations;	08/02/2018	BCEL319	B
4	38	General principles of design of ogee spillway	09/02/2018	BCEL319	B
4	39	Spillway gates – Vertical lift, radial, rolling and drum	12/02/2018	BCEL319	B
4	40	Energy dissipation methods d/s of spillways, Hydraulic jump, deflating high velocity flow.	14/02/2018	BCEL319	B
4	41	Component parts of diversion headwork's – Fish ladder, guide wall, divide all, silt excluder and silt ejector	15/02/2018	BCEL319	B
4	42	Component parts of diversion headwork's – Fish ladder, guide wall, divide all, silt excluder and silt ejector	16/02/2018	BCEL319	B
4	43	Causes of failure of weirs on permeable foundation; Bligh's Creep theory; dr. khosla's theory for design of weirs on permeable foundations.	19/02/2018	BCEL319	B
4	44	Causes of failure of weirs on permeable foundation; Bligh's Creep theory; dr. khosla's theory for design of weirs on permeable foundations.	21/02/2018	BCEL319	B
5	45	Types of canal	22/02/2018	BCEL319	B
5	46	Alignment of canal; Cross section of irrigation canals; balancing depth	23/02/2018	BCEL319	B
5	47	Schedule of area statistics; Losses in canals	26/02/2018	BCEL319	B
5	48	Kennedy's silt theory – Design procedure, silt supporting capacity, drawbacks	28/02/2018	BCEL319	B
5	49	Lacey's silt theory- Definition of initial final and permanent regime channels	01/03/2018	BCEL319	B
5	50	Lacey's Regime equation, channel design procedure, drawback's ;	02/03/2018	BCEL319	B



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Course wise Teaching Plan for Session : Summer 2018

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Faculty : anmuske - Atul.N.Muske

Unit	Topic Code	Topic Covered	Date	Course	Section
5	51	Garret's diagram for channel design.	05/03/2018	BCEL319	B
5	52	Design procedure; Types of lining	07/03/2018	BCEL319	B
5	53	relative merits and demerits of canal lining; Economics of canal lining.	08/03/2018	BCEL319	B
5	54	Introduction to Computational Fluid Dynamics.	09/03/2018	BCEL319	B
6	55	CANAL STRUCTURES: CANAL REGULATION WORKS	12/03/2018	BCEL319	B
6	56	Only theoretical aspects of location, objects, classification, components	14/03/2018	BCEL319	B
6	57	schematic section of Head Regulator, Cross regulators, canal escapes, Canal falls and canal outlets.	15/03/2018	BCEL319	B
6	58	CROSS DRAINAGE WORKS	16/03/2018	BCEL319	B
6	59	Only theoretical aspects of location, objects, classification, components and schematic section of aqueducts	19/03/2018	BCEL319	B
6	60	siphon aqueducts, super passage, canal siphon, inlets outlets and level crossings.	21/03/2018	BCEL319	B
6	61	siphon aqueducts, super passage, canal siphon, inlets outlets and level crossings.	22/03/2018	BCEL319	B
6	62	WATER LOGGING AND LAND DRAINAGE	23/03/2018	BCEL319	B
6	63	Causes, effects, preventive measures of water logging, Types of drains, Layout of tile drain systems; flow of groundwater to drains	26/03/2018	BCEL319	B
6	64	RIVER TRAINING WORKS	28/03/2018	BCEL319	B
6	65	Definition; Classification; theoretical aspects of river training works like as Guide banks	29/03/2018	BCEL319	B
6	66	Groynes and Spurs, Bank protection.	30/03/2018	BCEL319	B