	Semester-I (I scheme)	
Course Ti	Course Title- Course Code-22001	
	Use computer system and its peripherals.	
	Prepare business document using word processing tool.	
	Interpret data and represent it graphically using spread sheet.	
	Prepare professional presentations.	
	Use different types of web browsers.	
	tle- Course Code-22002	
	Draw geometrical figures and engineering curved.	
	Draw the views of given object using principles of orthographic projection.	
	Draw isometric views of given component.	
	Draw free hand sketches of given engineering element.	
- 3 - 13		
Course Ti	tle- Course Code-22004	
22004.a	Select tools and machinery according to job.	
22004.b	Prepare job according to drawing.	
22004.c	Operate equipment and machinery in different shops.	
22004.d	Maintain workshop related tools, equipment and machinery	
Course Ti	tle- Course Code-22101	
22101.a	Formulate grammatically correct sentences.	
22101.b	Compose dialogues and paragraphs for different situation.	
22101.c	Use relevant words as per context.	
22101.d	Delivery prepared speeches to express ideas thoughts and	
Course Ti	tle- Course Code-22102	
22102.a	Use relevant engineering material in industry.	
22102.b	Use corrosion preventive measures in industry.	
22102.c	Estimate errors in the measurement of physical quantities.	
22102.d	Apply the analysis process in industries.	
Course Ti	tle- Course Code-22103	
22103.a	Apply the concepts of statistics to solve engineering related problems.	
22103.b	Use basics concepts of statistics to solve engineering related problems.	
22103.c	Solve the problems based on measurement of regular closed figures and regulary	
	solids.	
22103.d	Utilize basic concepts of trigonometry	

	MSBTE prescribed syllabus, as per the Scheme T	
Semester- II (I scheme)		
Course Ti	tle-Applied Mathematics Course Code-22201	
22201.a	Calculate the equation of tangent, maxima, minima, radius of curveture by	
	differtiation	
22201.b	Solve the given problem of integartion using suitable methods	
22201.c	Apply the concept of integration using suitable methods	
22201.d	Solve the differtntial equation of first order and first degree using suitable	
22201.u	methods.	
22201.e	Aplly the concept of numerail inetgration to investigate the area.	
Course Ti	tle-Applied science (Physics and chemistry ) Course Code-22202	
22202.a	Select relevant material in industry by analyzing its physical properties.	
22202.b	Apply laws of motion in various applications.	
22202.c	Use relevant fuel in relevant application	
Course Ti	tle-Applied Mechanics, Course Code-22203	
22203.a	Identify the force systems for given conditions by applying the basics of	
	mechanics	
22203.b	Select the relevant simple lifting machine(s) for given purposes	
22203.c	Determine unknown force(s) of different engineering systems	
22203.d	Check the stability of various force systems	
22203.e	Apply the principles of friction in various conditions for useful purposes	
22203.f	Find the centroid and Centre of gravity of various components in engineering	
	systems	
	tle-Construction Material , Course Code-22204	
22204.a	Identify relevant construction materials	
	Identify relevant natural construction materials	
22204.c	Select relevant artificial construction materials	
	Select relevant special type of construction materials	
22204.e	Select relevant finishing materials for construction.	
22204.f	Identify processed construction materials.	
Course Ti	tle-Basic Surveying, Course Code-22205	
22205.a	Select the type of survey required for given situation	
22205.b	Compute area of open field using chain, tape and cross staff	
22205.c	Conduct traversing in the field using chain and compass	
22205.d	Use leveling instruments to determine reduced level of ground points	
22205.e	Draw/interpret contour maps of an area collecting field data	
22205.f	Use digital planimeter to calculate the areas	
Course Title-Civil Engineering Workshop, Course Code-22008		

Misbit prescribed syllabus, as per the scheme i		
22008.a	Iden tify the various construction activities at site.	
22008.b	Perform pl um bin g job acti vities .	
22008.c	Identify finishing jobs related to building construction	
22008.d	Identify the various components of typical civil structures like road. culvert/bridges	
22008.e	Perform masonry job activities	
Course Ti	tle-Business communication using computers. Course Code-22009	
22009.a	Write reports using correct guidelines.	
22009.b	Compose email and formal business letters.	
22009.c	Communicate skillfully using non verbal method of communication.	
	Semester – III (I scheme)	
Course Ti	tle- Advanced Surveying , Course Code 22301	
22301.a	Prepare plans usi ng Plane Table Surveys.	
22301 b	Prepare plans usi ng Theodolite surveys.	
<b>22301</b> c	Find distances and elevati ons using Tacheometer.	
22301 d	Set out simpl e circul ar curves.	
22301 e	Prepare plans usi ng Total Station instrument.	
22301 f	Locate coordi nates of stations usi ng GPS.	
Course Ti	tle- Highway Engineering, Course Code 22302	
	Identify the types of roads as per IRC recommendations.	
22302.b	Implement the geometrical design features of different highways.	
22302.c	Perform different tests on road materials.	
22302.d	Evaluate traffic flow characteristics .	
22302.e	Implement hill road construction using relevant materials, techniques and methods.	
22302.f	Undertake maintenance of roads and drainage	
Course Ti	tle- Mechanics of Structu res , Course Code 22303	
22303.a	Articul ate practi cal applications of moment of inertia of symmetrical and unsymmetrical structural sections	
22303.b	Interpret structural behaviour of materials under various loading cond itions.	
22303.0		
22303.c	Select material considering engineering properties for various structural applications.	
22303.d	Interpret shear force and bendingmoment diagrams for various types of	
	beams and loading conditions.	
22303.e	Determine the bending and shear stresses in beams under different loading conditions.	
22303.f	Check the col umn safety for various I oading and end conditions .	

	Misbre prescribed syllabus, as per the scheme i	
Course Title- Building Construction , Course Code 22304		
	Identify Components of building structutres	
22304 b	Propose suitable type of foundation for building structures	
<b>22304</b> c	select suitable type of masonry for building structures	
22304 d	select the relevant material for finishing works	
Course Ti	tle- Concrete Technology, Course Code 22305	
22305.a	Use rel evant types of cement in different site conditi ons.	
22305.b	Use relevant aggregates for required concrete works.	
22305.c	Prepare concrete of desired compressi ve strengths.	
22305.d	Prepare concrete of requi red specificati ons.	
22305.e	Maintai n the qual ity of concrete.	
22305.f	Use relevant adm i xtures for concreting for different weather conditions.	
Course Ti	tle- COMPUTER AIDED DRAWING, Course Code 22022	
22022a	Locate the dimension of the drafting drawing.	
22022b	Draw the isometric and 3 - dimensional drawing.	
22022c	Editing 2 Dimensional Drawing.	
22022d	Use CAD Software for drafting.	
	Semester – IV (I scheme)	
Course Ti	tle-Hydraulics, Course Code-22401	
22401.a	Interpret the pressure parameters from pressure measuring devices in flowing liquids.	
22401.b	Determine total hydrostatic pressure and centre of pressure for different conditions.	
22401.c	Use relevant fluid flow parameters in different situations.	
	Determ ine the loss of head of fl u i d flow th rou gh pipes.	
22401.e	Find the fluid flow parameters in open channels.	
22401.f	Select relevant hyd rau l ic pu mps for d ifferent appl ications	
Course Ti	Course Title-Theory of Structures, Course Code-22402	
22402.a	Analyze stresses induced in vertical membersubjected to direct and bending loads.	
22402.b	Analyze slope and Deflection in beams under different loading conditions.	
22402.c	Analyze end moments of fixed beams.	
22402.d	Analyse continuous beam under different loading conditions using the principles of Three Moments.	
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	ivisbre prescribed syllabus, as per the scheme r
22402.e	Analyze continuous beam using Moment Distribution Method under different
	loading conditions.
22402.f	Evaluate axial forces in the members of simple truss.
	tle-Railway and Bridge Engineering ,Course Code-22403
22403.a	Identify the components of rail way tracks.
22403.b	Maintain the railway tracks.
22403.c	Diagnose the condition of bridges.
22403.d	Maintain different types of railway brid ges and their components.
22403.e	Maintain different types of tunnels.
Course Ti	tle-Geo-Technical Engineering,Course Code-22404
22404.a	Identify types of rocks and sub soil strata of earth.
22404.b	Interprete the physical properties of soil related to given construction activities.
22404.c	Use the results of permeabil ity and shear strength test for foundation analysis.
22404.d	Interpret the soil bearing capacity resul ts .
22404.e	Compute optimum val ues for moisture content for maxim um dry density of soil
22404.6	through various tests.
	tle-Building Planning and Drawing Course Code-22405
22405.a	Interpret the symbols, signs and conventions from the given drawing.
22405.b	Prepare line plans of residential and public buildings using principles of planning.
22405 -	Prepare submission and working drawing from the given requirement for
22405.c	Load Bearing Structure.
22405 4	Prepare submissi on and working drawing from the given requirement for
22405.d	Framed Structure.
22405.e	Draw Two point perspective drawing for given small objects.
Course Ti	tle-Environmental Studiese Code-22447
22447.a	Develop Public awareness about envi ronment
22447.b	Select alternative energy resources for Engineering Practice
22447.c	Conserve Ecosystem and Biodiversity
22447.d	Apply techniques to reduce Environmental Pol lution
22447.e	Manage social issues and Environmental Ethics as lifelong learning
Semester – V (I scheme)	
Course Ti	tle- Water Resou rce Engineering , Course Code- 22501

Estimate crop water requirem_nts of a command area and capacity of canals.  22501.c Maintain irrigation structures.  22501.d Execute the Minor and Micro Irri gation Schemes.  22501.e Select the relevant Diversion Head works for the 'specific site conditions.  22501.f Design, construct and maintain simple Canal structures.  22502.d Design of Steel and RCC Structures, Course Code- 22502  22502.a Use steel table and IS code 800:2007 at work sites.  22502.b Design the connections for the given steel joints.  22502.c Analysis and design of singly reinforced rectangular beams.  22502.d Design of shear reinforcement and development length for beam and slabs.  22502.e Design various slabs for the given edge condition.  22502.1 Design of axially loaded sho1i columns and footings.  22502.2 Design of axially loaded sho1i columns and footings.  22503.a Select the modes of measurements for different items of works.  22503.b Prepare approximate estimate of a civil engineering works.  22503.c Prepare detailed estimate of a civil engineering works.  22503.d Justify the rate for given items of work using rate analysis techniques.  22503.e Use relevant software for estimating the quantities and cost of items of works.  22503.e Use relevant software for estimating the quantities and cost of items of works.  22503.e Draw labeled layout for water supply scheme.  22504.b Estimate the quantity of drinking water and domestic wastewater generated.  22504.c Draw labeled layout for water supply scheme.  22504.e Explain the process of treatment of water and wastewater.  22504.e Explain the advanced treatment processes of water and wastewater.  22504.f Propose the relevant method of energy conservation.  22507.a Hondertake various types of road traffic studies.  22507.b Undertake various types of road traffic studies.  22507.c Use the relevant road traffic characteristics.		Wish't prescribed synabus, as per the scheme i
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22507.d Select the relevant road signals for the given traffic islands	22507.b	Undertake various types of road traffic studies.
5 5	22507.c	Use the relevant road traffic signs and markings.
22507 e Maintain the road environment	22507.d	Select the relevant road signals for the given traffic islands
-2507.6   Maintain the road chanolinent.	22507.e	Maintain the road environment.

22507.f	Suggest preventive measures to avoid accidents by analyzing the traffic conditions at site.
Course Ti	tle-5. Capstones Project Planning , Course Code- 22058
22058.a	Write the problem/task specification in existing systems related to the occupation.
220E0 k	Select, collect and use required information /knowledge to solve the problem
22058.b	/complete the task.
22058.c	Logically choose relevant possible solution(s).
22058.d	Consider the ethical issues related to the project (if there are any).
22058.e	Assess the impact of the project on society (if there is any).
22058.f	Prepare 'project proposals' with action plan and time duration scienlificallly
	beginning project

Semester – VI (I scheme)		
Course Ti	Course Title Management , Course Code- 22509	
22509.a	Use basic management principles to execute daily activities.	
22509.b	Use principles of planning and organising for accomplishment of tasks.	
22509.c	Use principles of directing and controlling for implementing the plans.	
22509.d	Apply principles of safety management in all activities.	
22509.e	Understand various provisions of industrial acts.	
Course Ti	tle Contracts and Account, Course Code- 22601	
22601.a	Execute the method of PWD for initiating the works.	
22601.b	Execute the contracts of civil engineering works.	
22601.c	Prepare the tender documents for civil engineering works.	
22601.d	use the relevant type of form used in PWD to pay the bill of the executed work	
22601.e	Prepare the detailed specification for various items of constrction.	
22601.f	Justify the rent fixation of civil structures.	
Course Ti	tle Maintenance and Repairs of Structures, Course Code- 22602	
22602.a	Select the relevant method of maintaining different building structures.	
22602.b	Test the structures to predict its stability.	
22602.c	Select the relevant materials for repairs of structures.	
22602.d	Apply the relevant methods of repair for the masonry structures.	
22602.e	Restore the damages of building structural elements using suitable method of	
22002.6	repair.	
22602.f	Prepare the structural audit and budget for the maintainance of structures.	
Course Ti	Course Title Emerging Trends in Civil Engineering, Course Code- 22603	

	Devel different annications of a ferrous la familiar decimins and according of
22603.a	Reveal different applications of software's for planning, designing and execution of
	projects.
22603.b	Suggest the advanced material as per site condition
22603.c	Recommend the suitable tools and equipments for the given situaion.
22603.d	Suggest the advanced resource management techniques for the given project.
22603.e	use the feasible advance techniques for various civil engineering projects.
Course T	itle Solid Waste Management (Elective-II), Course Code- 22605
22605.a	Identify the different sources of solid wastes
22605.b	Execute the relevant method of collection and transportation of solis wastes.
22605.c	Execute an action plan for disposal of solid wastes.
22605.d	Implement the relevant method for disposal of Bio-medical wastes.
22605.e	Implement the relevant method for disposal of Industrial wastes and E-waste
22605.f	Implement the relevant lawas related to solid waste management.
Course T	itle Advanced Design of Structures (Elective-II), Course Code- 22607
22607.a	Design the steel tension members under different loading conditions.
22607.b	Design the steel compression members under different loading conditions.
22607.c	Design the doubly-reinforced rectangular RCC beams under different loading conditions.
22607.d	Design the flanged RCC beams under different loading conditions.
22607.e	Design waist slabs of RCC dog legged staircase.
22607.f	Design the circular columns and the isolated RCC rectangular column footings.
Course T	itle Capstone Project-Execution & Report Writing, Course Code- 22060
22060.a	Implement the planned activity individuly and/or as team.
22060.b	Select, collect and use required information/knowledge to solve the identified problems.
22060.c	TA
22060.d	Design the flanged RCC beams under different loading conditions.
22060.e	Design waist slabs of RCC dog legged staircase.
22060.f	Design the circular columns and the isolated RCC rectangular column footings.