Bhujbal Knowledge City MET's Institute of Technology, Polytechnic, Nashik Department of Civil Engineering

Course Outcomes MSBTE prescribed syllabus, as per the Scheme 'I'

Course Title- Fundamental of ICT (22001) 12001.a Use computer system and its peripherals. 12001.b Prepare business document using word processing tool. 12001.c Interpret data and represent it graphically using spread sheet. 12001.e Use different types of web browsers. 12001.e Use different types of web browsers. 12002.a Draw geometrical figures and engineering curves. 12002.b Draw the views of given object using principles of orthographic projection. 12002.c Draw isometric views of given component. 12002.c Draw isometric views of given component. 12002.d Use drawing codes, conventions and symbols as per IS SP 46 in engineering drawing. 12002.b Draw free hand sketches of given engineering element. 12002.c Draw free hand sketches of given engineering element. 12004.a Select tools and machinery according to job. 12004.b Use hand tools in different shops for performing different operation. 12004.c Operate equipment and machinery in different shops. 12004.c Operate equipment and machinery in different shops. 12004.e Maintain workshop related tools, equipment and machinery 12004.e Maintain workshop related tools, equipment and machinery 12004.b Summarize comprehension passages. 12101.a Formulate grammatically correct sentences. 12101.b Summarize comprehension passages. 12101.c Compose dialogues and paragraphs for different situations. 12101.d Use relevant words as per context. 12101.e Delivered prepared speeches as per ideas, thoughts and emotions. 12102.c Use the basic Science (22102) 12102.a Estimate errors in the measurement of physical quantities. 12102.b Apply the principles of electricity and magnetism to solve engineering problems. 12102.c Use rolevant engineering materials in industry. 12102.c Use rolevant engineering materials in industry. 12103.a Apply the catalysis process in lindustries. 12104.c Use relevant engineering materials in industry. 12105.c Solve basic engineering problems under given condition of straight lines. 12103.a Over the problems based on measurement of		Semester-I (I scheme)		
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Use corrosion preventive measures in industry. Use relevant engineering materials in industry. Course Title- Basic Mathematics (22103) Apply the concepts of Algebra to solve engineering related problems. Utilize the basic concept of trigonometry to solve elementary engineering problems. Solve basic engineering problems under given condition of straight lines. Solve the problems based on measurement of regular closed figures and regular solids. Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22102.c	Use the basic principles of heat and optics in related engineering applications.		
Use relevant engineering materials in industry. Course Title- Basic Mathematics (22103) 22103.a Apply the concepts of Algebra to solve engineering related problems. 22103.b Utilize the basic concept of trigonometry to solve elementary engineering problems. 22103.c Solve basic engineering problems under given condition of straight lines. 22103.d Solve the problems based on measurement of regular closed figures and regular solids. 22103.e Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22102.d	Apply the catalysis process in industries.		
Course Title- Basic Mathematics (22103) 22103.a Apply the concepts of Algebra to solve engineering related problems. 22103.b Utilize the basic concept of trigonometry to solve elementary engineering problems. 22103.c Solve basic engineering problems under given condition of straight lines. 22103.d Solve the problems based on measurement of regular closed figures and regular solids. 22103.e Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22102.e	Use corrosion preventive measures in industry.		
Apply the concepts of Algebra to solve engineering related problems. Utilize the basic concept of trigonometry to solve elementary engineering problems. Solve basic engineering problems under given condition of straight lines. Solve the problems based on measurement of regular closed figures and regular solids. Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22102.f	Use relevant engineering materials in industry.		
Utilize the basic concept of trigonometry to solve elementary engineering problems. Solve basic engineering problems under given condition of straight lines. Solve the problems based on measurement of regular closed figures and regular solids. Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	Course Ti	tle- Basic Mathematics (22103)		
Solve basic engineering problems under given condition of straight lines. Solve the problems based on measurement of regular closed figures and regular solids. Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22103.a	Apply the concepts of Algebra to solve engineering related problems.		
22103.d Solve the problems based on measurement of regular closed figures and regular solids. 22103.e Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22103.b	Utilize the basic concept of trigonometry to solve elementary engineering problems.		
Use basic concept of statistics to solve engineering related problems. Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22103.c	Solve basic engineering problems under given condition of straight lines.		
Semester- II (I scheme) Course Title- Applied Mathematics (22201)	22103.d	Solve the problems based on measurement of regular closed figures and regular solids.		
Course Title- Applied Mathematics (22201)	22103.e	Use basic concept of statistics to solve engineering related problems.		
		Semester- II (I scheme)		
	Course Title- Applied Mathematics (22201)			
1	22201.a	Calculate the equation of tangent, maxima, minima, radius of curvature by differentiation.		

22201.b	Solve the given problem of integration using suitable methods.	
22201.c	Apply the concept of integration to find area and volume.	
22201.d	Solve the differential equation of first order and first degree using suitable methods.	
22201.e	Apply the concept of numerical integration to investigate the area.	
Course 7	Title- Applied Science (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 LASER'S, X-Rays and photo electric sensors.	
22202.d	Select the relevant metallurgical process related to industrial application.	
22202.e	Use relevant water treatment process to solve engineering problems.	
22202.f	Use relevant fuel in relevant application	
Course 7	Title- Applied Mechanics(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.	
Course 7	Title- Construction Materials (22204)	
22204.a	Identify relevant construction materials.	
22204.b	Identify relevant natural construction materials.	
22204.c	Select relevant artificial construction materials.	
22204.d	Select relevant special type of construction materials.	
22204.e	Select relevant finishing materials for construction.	
22204.f	Identify processed construction materials.	
Course 7	Title-Basic Surveying (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.	
	Title- Civil Engineering Workshop Practice (22008)	
22008.a	Identify the various construction activities at site.	
22008.b	Perform masonry job activities.	
22008.c	Perform plumbing job activities.	
22008.d	Identify finishing jobs related to building construction.	
22008.e	Identify the various components of typical civil structures like culvert/bridges.	
	Title- Business communication with computers (22009)	
22009.a	Communicate effectively by avoiding barriers in various formal and informal situations.	
22009.b	Communicate skillfully using non verbal methods of communications.	
22009.c	Give presentations by using audio-visual aids.	
22009.d	Write reports using correct guidelines.	
22009.e	Compose e-mail and formal business letters.	
22009.e	Compose e-mail and formal business letters.	
Semester- III (I scheme)		
Course Title- Advanced Surveying , Course Code 22301		
22301.a	Prepare plans using Plane Table Surveys.	
22201 h	Duamona plana vaina Thao dalita avervava	

22301 b Prepare plans using Theodolite surveys.

22301 d Set out simpl e circul ar curves.

Find distances and elevations using Tacheometer.

22301 c

22301 e	Prepare plans using Total Station instrument.
22301 f	Locate coordi nates of stations using GPS.
	Fitle- Highway Engineering , Course Code 22302
22302.a	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
	Fitle- Mechanics of Structures, Course Code 22303
22303.a	Articulate practical applications of moment of inertia of symmetrical and unsymmetrical structural sect
22303.b	Interpret structural behaviour of materials under various loading conditions.
22303.c	Select material considering engineering properties for various structural applications.
22303.d	Interpret shear force and bend ingmoment diagrams for various types of beams and loading conditions.
22303.e	Determine the bending and shear stresses in beams under different loading conditions.
22303.e 22303.f	Check the col umn safety for various loading and end conditions.
-	Fitle- Building Construction, Course Code 22304
22304 a	Identify Components of building structutres
22304 a 22304 b	Propose suitable type of foundation for building structures
22304 b	select suitable type of masonry for building structures
22304 d	Propose relevant means of communications for different types of buildings.
22304 d 22304 e	select the relevant material for finishing works
22304 c 22304 f	Execute safe practices in building construction activities.
	Fitle- Concrete Technology, Course Code 22305
22305.a	Use rel evant types of cement in different site conditions.
22305.b	Use relevant aggregates for required concrete works.
22305.c	Prepare concrete of desired compressive strengths.
22305.d	Prepare concrete of required specificati ons.
22305.e	Maintain the quality of concrete.
22305.f	Use relevant admixtures for concreting for different weather conditions.
	Title- COMPUTER AIDED DRAWING, Course Code 22022
22022a	Interpret the given 2 dimensional drawing.
22022b	Use CAD software for drafting and editing 2-dimensional drawings.
22022c	Locate the dimensions of the drafted drawing.
22022d	Draw the isometric and 3-dimentional drawing.
	Semester – IV (I scheme)
Course	Fitle-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.
22401.d	Determine the loss of head of fluid flow through pipes.
22401.e	Find the fluid flow parameters in open channels.
22401.f	Select relevant hydraulic pumps for different applications.
Course 7	Fitle-Theory of Structures, Course Code-22402
22402.a	Analyze stresses induced in vertical member subjected to direct and bending loads.
22402.a 22402.b	Analyze slope and Deflection in beams under different loading conditions.
22402.b	Analyze slope and Deflection in beams under different loading conditions.

22402.f	Evaluate axial formes in the members of simple trace
22402.1	Evaluate axial forces in the members of simple truss.
Course	 Fitle-Railway and Bridge Engineering ,Course Code-22403
22403.a	Identify the components of railway tracks.
22403.a 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.d 22403.e	Maintain different types of tunnels.
	Fitle-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 results .
22404.e	Compute optimum val ues for moisture content for maxim um dry density of soil through various
22404.0	Compute optimum var des for moistare content for maxim um dry density of son unough various
Course	Title-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.c	Prepare submission and working drawing from the given requirement for Load Bearing Structure.
22405.d	Prepare submissi on and working drawing from the given requirement for Framed Structure.
22405.e	Draw Two point perspective drawing for given small objects.
Course 7	Fitle-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 7	Title- Water Resource Engineering , Course Code- 22501
22501.a	Estimate hydrological parameters.
22501.b	Estimate crop water requirements 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.
Course 7	Title- 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.f	Design of axially loaded short columns and footings.
	Title-: Estimating and Costing, Course Code- 22503
22503.a	Select the modes of measurements for different items of works.
22503.b	Prepare approximate estimate of a civil engi neering 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.
	Title- Public Health Engineering , Course Code- 22504
22504.a	Identify the sources and characteristics of water and wastewater.

22504.b	Estimate the quantity of drinking water and wastewater generated.
22504.c	Draw labeled systems of plumbing for building sanitation.
22504.d	Draw the flow diagram for process of treatment of water and wastewater.
22504.e	Identify various accessories for efficient conveyance and distribution of water.
Course 7	Title- Traffic Engineering (Elective), Course Code- 22507
22507.a	Analyze the road traffic characteristics.
22507.b	Undertake various types of road traffic studies.
22507.c	Use the relevant road traffic signs and markings.
22507.d	Select the relevant road signals for the given traffic islands
22507.e	Maintain the road environment.
22507.f	Suggest preventive measures to avoid accidents by analyzing the traffic conditions at site.
Course Title- Capstones Project Planning, Course Code- 22058	
22058.a	Write the problem/task specification in existing systems related to the occupation.
22058.b	Select, collect and use required information /knowledge to solve the problem /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 scienlifically beginning project
22058.g	Communicate effectively and confidently as a member and leader of team.
Course 7	Fitle- Industrial Training (22057)
22057.a	Communicate effectively (verbal as well as written) the work carried out.
22057.b	Prepare and present the report of the work carried out.
22057.c	Exercise time management and safety in the work environment.
22057.d	Working as a team.
22057.e	Demonstrate various quality assurances.
22057.f	Exhibit the work carried out.
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Semester – VI (I scheme)		
Course 7	Citle 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 Title 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 7	Citle 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 repair.	
22602.f	Prepare the structural audit and budget for the maintainance of structures.	
Course 7	Course Title Emerging Trends in Civil Engineering, Course Code- 22603	
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 Title 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 7	Title 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 7	Title 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	Take appropriate decisions based on collected and analyzed information.	
22060.d	Ensure quality in product	
22060.e	Incorporate energy and environment conservation principles.	
22060.f	Incorporate energy and environment conservation principles.	
22060.g	Consider the ethical issues related to the project. (If there is any).	
22060.h	Assess the impact of the project on society.(if there is any)	
22060.i	Communicate effectively and confidently as a member and a leader of team.	
	Title- Construction Management (22061)	
22061.a	Organize the human resources for civil engineering projects.	
22061.b	Prepare the networks and bar charts for the given construction projects.	
22061.c	Apply safety measures at construction projects.	
Course T	Fitle- Entrepreneurship Development (22032)	
22032.a	Identify your entrepreneurial traits.	
22032.b	Identify the business opportunities that suit you.	
22032.c	Use the support system to zero down to your business idea.	
22032.d	Develop comprehensive business plan.	
22032.e	Prepare the plans to manage the enterprise effectively.	