

Course Outcomes of IB.Tech(CSE,ME,CST) -V18 Regulation

Year & Semester	Course Code & Name	Course Outcomes
I Semester	V18ENT01 English –I	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. Understand human resources and their contribution to the society, listen to and read a text to comprehend, interpret and answer questions, and use prepositions and tenses appropriately. 2. Appraise the problems of transport and the solutions, write the gist of a short-story, know the etymological roots of words, use prefixes and exhibit basic skills in writing. 3. View Solar Energy as a viable alternative source, and read for comprehension, analysis and interpretation and present narratives in writing. 4. Evaluate various alternative sources of energy, spell words appropriately, pronounce them with proper stress, punctuate sentences correctly and narrate instances and stories. 5. Realize the value of our living environment, describe animals, birds, objects, events, processes, etc., write paragraphs coherently and use connectors effectively. 6. Grasp the vital role of training in industrial organizations, use prepositions, take notes, follow the office etiquette and write impressive narrations
I Semester	VI8MAT01 Mathematics-I	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. Apply matrix technique to solve system of linear equation. 2. Find Eigen values and Eigen vectors 3. Solve the ordinary differential equations of first order & first degree 4. Solve the linear differential equations of higher order 5. Calculate maxima and minima of functions of two variables 6. Solve first order partial differential equations.
I Semester	V18PHT02 Physics: Opto-Electronics And Semi Condutores	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. Expose the students to the basic concepts of Lasers, optical fibers and their properties. 2. Interpret wavelike behavior of matter and how this motivates the need to replace classical mechanics by a wave equation of motion for matter (the Schrödinger equations) 3. Distinguish fundamental physical laws for better understanding of materials and their properties for engineering applications. 4. Apply fundamental principles and processes to operational semiconductor devices and their uses.
	V18EET01	After Successful completion of the Course, the student will be able to:

I Semester	Basic Electrical and Electronics Engineering	<ol style="list-style-type: none"> 1. Apply the fundamentals for solving electrical circuits. 2. Calculate different parameters of R-L, R-C, R-L-C circuits. 3. Understand the basic concepts of DC Machines & Transformers. 4. Describe the operational characteristics of AC Machines. 5. Understand the operation and characteristics of PN junction diode. 6. Explain the characteristics of Transistor configurations and feedback amplifiers.
I Semester	V18CHT02 Environmental Studies	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. Identify the global environmental challenges and the possible means to combat them. 2. Examine the natural resources, their availability for the sustenance of the life and conservation. 3. Assess the concepts of the ecosystem and the need for protecting various ecosystems. 4. Discuss the biodiversity, threats and conservation practices to protect the biodiversity 5. Explain various attributes of the pollution and waste management practices. 6. Outline the environmental management and environmental legislations in India.
I Semester	V18ENL01 ECS Lab –I	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. Listen to and make inquiries on phone, thank and respond to thanks in appropriate spoken idiom. 2. Make requests, give permissions and directions in fluent English. 3. Articulate well in the contexts of clarifying, inviting, complaining, congratulating, apologizing, advising, agreeing and disagreeing in conversational mode. 4. Distinguish and pronounce letters and sounds of English phonetically. 5. Practice and pronounce consonants, vowels and diphthongs and consonant clusters. 6. Listen to and understand different accents in English, and pronounce English words and Speak sentences with right stress and intonation.
I Semester	V18MEL01 Engineering Workshop & IT Workshop Practice Lab	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. prepare different models in the carpentry trade such as Cross lap joint, Dove tail joint. 2. make various basic prototypes in the trade of Tin smithy such as rectangular tray, and open Cylinder 3. model various basic prototypes in the trade of fitting such as Straight fit, V- fit. 4. prepare different models in the Black smithy such as Round rod to Square, S-Hook.. 5. perform various basic House Wiring techniques such as connecting one lamp with one switch, connecting two lamps with one switch, connecting a fluorescent tube, Series wiring, Go down wiring. 6. prepare various basic prototypes in the trade of Welding such as Lap joint, Butt joint.
I Semester	IT WORKSHOP Lab	After Successful completion of the Course, the student will be able to: <ol style="list-style-type: none"> 1. Demonstrate Disassemble and Assemble a Personal Computer and its peripherals 2. Practice installation of operating system. 3. Connect peripherals and install required drivers 4. Demonstrate internet connectivity and usage of internet as per his/her requirement. 5. Prepare the Documents for their projects

		6. Prepare Slide shows for their presentations
I Semester	V18EEL01 Basic Electrical and Electronics Engineering Lab	<ol style="list-style-type: none"> 1. Compute response of a Network using various Network theorems. 2. Determine the critical field resistance and critical speed by conducting magnetization characteristics of D.C. Shunt generator. 3. Change the speed of DC shunt motor by conducting Armature voltage & field flux control methods 4. Examine the performance of DC shunt motor and 3-phase induction motor. 5. Determine the efficiency and regulation of single phase transformer by conducting OC & SC test. 6. Examine the performance characteristics of P-N junction diode, Half and full wave rectifiers.
II Semester	V18ENT02 English –II	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Understand the real import of education and work of noble men, use nouns, verbs and adjectives appropriately, identify and correct common errors in usage and write official letters. 2. Derive inspiration from real life samples, interpret and speak on them, use synonyms and antonyms of words properly and do E-correspondence with required netiquette. 3. Assimilate and adjust to new cultural environments, write on life-sketches, make the right use of tense and aspect and concord in sentences and plan and develop speech-writing. 4. Imbibe ideas from the lives and works of successful men, use adverbs, develop view-points and topics and write different types of essays. 5. Emulate personality-development inputs, elaborate on inspiring scientists use one-word substitutes, develop précis writing and write for the media. 6. Learn from the paradigm of great contributors, use collocations and write professional and technical reports in standard formats.
II Semester	VI8MAT02 Mathematics-II	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Estimate approximate root of algebraic and transcendental equations 2. Compute interpolating polynomial for the given data 3. Solve ordinary differential equations using numerical methods 4. Evaluate multiple integrals and improper integrals 5. Calculate gradient of a scalar function, divergence and curl of a vector function. 6. Apply the knowledge of vector integral concepts to find characteristics of vector fields
II Semester	V18CHT01 Engineering Chemistry	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Apply different plastics and rubbers for various engineering applications. 2. Assess the quality of fuels and apply the knowledge of fuels for the preservation of natural fuels. 3. Understand relevant concepts of Electro Chemistry to apply them in designing electrochemical energy systems. 4. Analyse boiler troubles arising due to poor water quality and suggest suitable water treatment methods for different industrial applications. 5. Analyse the causes for practical corrosion problems and apply corrosion principles

		<p>for protection of metallic structures from corrosion.</p> <p>6. Identify the important applications of advanced engineering materials.</p>
II Semester	V18CST01 Programming in 'C' for problem Solvin	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe various problem solving strategies such as algorithms and Flowcharts 2. Develop various programming constructs using Control Structures. 3. Summarize the process of modular programming approach 4. Illustrate the usage of String handling functions and pointers 5. Construct Programs using Structures and Unions. 6. Distinguish between Sequential files and Random access files.
II Semester	V18MET01 Engineering Graphics	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the usage of drawing instruments and sketch conic sections 2. Construct different types of scales and special curves 3. Draw the projections of the points, lines and planes with reference to the principal planes. 4. Develop the projections of solids and its surfaces. 5. Draw the Isometric projections of solids. 6. Convert the isometric view to orthographic view and vice versa.
II Semester	V18ENL02 English Communication Skills Lab –II	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Listen to people critically and argue rationally to present a view-point confidently in formal debates. 2. Exhibit team spirit and communicative skill and participate effectively in group discussions. 3. Plan, structure and give presentations in professional manner. 4. Face and perform well in interviews with required etiquette. 5. Compose E-mails in standard formats to communicate clearly and write different types of CV in vogue that befit today's career needs. 6. Make apt use of idiomatic expressions and recognize and correct typical errors that Indian speakers of English make in pronunciation, spelling, vocabulary and grammar.
II Semester	V18CSL01 Programming Lab in 'C' for problem Solving Lab	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate problem solving techniques using Control Structures. 2. Construct Programmes using the concepts of Arrays, Strings and Pointers. 3. Apply the concepts of Functions, Structures and Unions. 4. Use various file processing operations to develop realtime applications.
II Semester	V18CHL01 Engineering Chemistry	<p>After Successful completion of the Course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Analyse quantitatively a variety of samples using volumetric methods and instrumental methods.

	Laboratory	2. Applying volumetric and instrumental methods for the determination of water quality parameters namely Alkalinity, Hardness and pH. 3. Prepare polymeric materials and analyse the given coal samples.
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Course Outcomes of B.Tech(ECE,ECT,CE,EEE) -V18 Regulation

Year & Semester	Course Code & Name	Course Outcomes
I Semester	VI8ENT01 English –I	After Successful completion of the Course, the student will be able to: 1. Understand human resources and their contribution to the society, listen to and read a text to comprehend, interpret and answer questions, and use prepositions and tenses appropriately. 2. Appraise the problems of transport and the solutions, write the gist of a short-story, know the etymological roots of words, use prefixes and exhibit basic skills in writing. 3. View Solar Energy as a viable alternative source, and read for comprehension, analysis and interpretation and present narratives in writing. 4. Evaluate various alternative sources of energy, spell words appropriately, pronounce them with proper stress, punctuate sentences correctly and narrate instances and stories. 5. Realize the value of our living environment, describe animals, birds, objects, events, processes, etc., write paragraphs coherently and use connectors effectively. 6. Grasp the vital role of training in industrial organizations, use prepositions, take notes, follow the office etiquette and write impressive narrations
I Semester	VI8MAT01 Mathematics-I	After Successful completion of the Course, the student will be able to: 1. Apply matrix technique to solve system of linear equation. 2. Find Eigen values and Eigen vectors 3. Solve the ordinary differential equations of first order & first degree 4. Solve the linear differential equations of higher order 5. Calculate maxima and minima of functions of two variables 6. Solve first order partial differential equations.
I Semester	VI8CHT01 Engineering Chemistry	After Successful completion of the Course, the student will be able to: 1. Apply different plastics and rubbers for various engineering applications. 2. Assess the quality of fuels and apply the knowledge of fuels for the preservation of natural fuels. 3. Understand relevant concepts of Electro Chemistry to apply them in designing electrochemical energy systems. 4. Analyse boiler troubles arising due to poor water quality and suggest suitable water treatment methods for different industrial applications. 5. Analyse the causes for practical corrosion problems and apply corrosion principles 6. Identify the important applications of advanced engineering materials
I Semester	VI8CST01 Programming in ‘C’ for problem Solving	After Successful completion of the Course, the student will be able to: 1. Describe various problem solving strategies such as algorithms and Flowcharts 2. Develop various programming constructs using Control Structures. 3. Summarize the process of modular programming approach 4. Illustrate the usage of String handling functions and pointers 5. Construct Programs using Structures and Unions. 6. Distinguish between Sequential files and Random access files.
	VI8MET01	After Successful completion of the Course, the student will be able to: 1. Demonstrate the usage of drawing instruments and sketch conic sections

I Semester	Engineering Graphics	<p>2. Construct different types of scales and special curves</p> <p>3. Draw the projections of the points, lines and planes with reference to the principal planes.</p> <p>4. Develop the projections of solids and its surfaces.</p> <p>5. Draw the Isometric projections of solids.</p> <p>6. Convert the isometric view to orthographic view and vice versa.</p>
I Semester	V18ENL01 ECS Lab –I	<p>After Successful completion of the Course, the student will be able to:</p> <p>1. Listen to and make inquiries on phone, thank and respond to thanks in appropriate spoken idiom.</p> <p>2. Make requests, give permissions and directions in fluent English.</p> <p>3. Articulate well in the contexts of clarifying, inviting, complaining, congratulating, apologizing, advising, agreeing and disagreeing in conversational mode.</p> <p>4. Distinguish and pronounce letters and sounds of English phonetically.</p> <p>5. Practice and pronounce consonants, vowels and diphthongs and consonant clusters.</p> <p>6. Listen to and understand different accents in English, and pronounce English words and speak sentences with right stress and intonation.</p>
I Semester	V18CSL01 Programming Lab in ‘C’ for problem Solving Lab	<p>After Successful completion of the Course, the student will be able to:</p> <p>1. Demonstrate problem solving techniques using Control Structures.</p> <p>2. Construct Programmes using the concepts of Arrays, Strings and Pointers.</p> <p>3. Apply the concepts of Functions, Structures and Unions.</p> <p>4. Use various file processing operations to develop realtime applications.</p>
I Semester	V18CHL01 Engineering Chemistry Lab	<p>After Successful completion of the Course, the student will be able to:</p> <p>1. Analyse quantitatively a variety of samples using volumetric methods and instrumental methods.</p> <p>2. Applying volumetric and instrumental methods for the determination of water quality parameters namely Alkalinity, Hardness and pH.</p> <p>3. Prepare polymeric materials and analyse the given coal samples.</p>
II Semester	V18ENT02 English –II	<p>After Successful completion of the Course, the student will be able to:</p> <p>1. Understand the real import of education and work of noble men, use nouns, verbs and adjectives appropriately, identify and correct common errors in usage and write official letters.</p> <p>2. Derive inspiration from real life samples, interpret and speak on them, use synonyms and antonyms of words properly and do E-correspondence with required netiquette.</p> <p>3. Assimilate and adjust to new cultural environments, write on life-sketches, make the right use of tense and aspect and concord in sentences and plan and develop speech-writing.</p> <p>4. Imbibe ideas from the lives and works of successful men, use adverbs, develop view-points and topics and write different types of essays.</p> <p>5. Emulate personality-development inputs, elaborate on inspiring scientists use one-word substitutes, develop précis writing and write for the media.</p> <p>6. Learn from the paradigm of great contributors, use collocations and write professional and technical reports in standard formats.</p>
II Semester	V18MAT02 Mathematics-II	<p>After Successful completion of the Course, the student will be able to:</p> <p>1. Estimate approximate root of algebraic and transcendental equations</p> <p>2. Compute interpolating polynomial for the given data</p> <p>3. Solve ordinary differential equations using numerical methods</p> <p>4. Evaluate multiple integrals and improper integrals</p> <p>5. Calculate gradient of a scalar function, divergence and curl of a vector function.</p> <p>6. Apply the knowledge of vector integral concepts to find characteristics of vector</p>

		fields
II Semester	V18PHT02 Opto-Electronics And Semi Conductors (EEE&ECE)	After Successful completion of the Course, the student will be able to: 1.Expose the students to the basic concepts of Lasers, optical fibers and their properties. 2.Interpret wavelike behavior of matter and how this motivates the need to replace classical mechanics by a wave equation of motion for matter (the Schrödinger equations) 3.Distinguish fundamental physical laws for better understanding of materials and their properties for engineering applications. 4.Apply fundamental principles and processes to operational semiconductor devices and their uses.
II Semester	V18PHT01 OPTICS AND WAVES(CE)	1. Correlate the engineering concepts based on fundamental Physical Optics with Coherent source. Furthermore, students will be able to solve problems connected with the operation of optical instruments. 2. Study the sound waves & Use modern physics techniques and tools. 3. Illustrate the fundamental concepts of magnetism and dielectrics
II Semester	V18MET03 ENGINEERING MECHANICS (CE,EEE)	1. Compute the resultant force of a given system of forces 2. Calculate the force in the different types of plane trusses 3 Find the Centroid, Center of Gravity and Moment of Inertia for plane figures and bodies 4. Illustrate the different types of plane motions of a particle to compute its velocity, acceleration and force 5. Illustrate the concept of Work and Energy 6. Apply the principle of Virtual Work to stability of equilibrium of beams and trusses
II Semester	V18MET02 INTRODUCTION TO ENGINEERING MECHANICS(EEE)	Course Outcomes: After successful completion of the course, the student will be able to C01: Compute the resultant force of a given system of forces (K3) C02: Calculate Equilibrium of different force systems by using free body diagrams (K3) C03: Solve the 2D equilibrium problems by considering friction (K3) C04: Find the Centroid, Center of Gravity and Moment of Inertia for plane figures and bodies (K3) C05: Illustrate the different types of plane motions of a particle to compute its velocity, acceleration and force. (K3) C06: Illustrate the concept of Work and Energy (K3)
II Semester	V18CEL01 COMPUTER AIDED CIVIL ENGINEERING DRAWING	1. Define AUTOCAD and list the applications 2. Classify various AUTOCAD commands 3. Explain orthographic projections and draw conventional signs as per IS standards 4. Identify view points and view ports 5. Utilize AUTOCAD commands to plan the buildings section and elevation 6. Discover various 3D modeling concepts

<p>II Semester</p>	<p>V18MEL01</p> <p>ENGINEERING AND IT WORKSHOP</p>	<ol style="list-style-type: none"> 1. prepare different models in the carpentry trade such as Cross lap joint, Dove tail joint. 2. make various basic prototypes in the trade of Tin smithy such as rectangular tray, and open Cylinder 3.model various basic prototypes in the trade of fitting such as Straight fit, V- fit. 4. prepare different models in the Black smithy such as Round rod to Square, S-Hook. 5. perform various basic House Wiring techniques such as connecting one lamp with one switch, connecting two lamps with one switch, connecting a fluorescent tube, Series wiring, Go down wiring. 6. prepare various basic prototypes in the trade of Welding such as Lap joint, Butt joint.
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