COMPUTER SCIENCE ENGINEERING					
	COURSE OUTCOMES FOR R18				
	COURSE				
S.NO	CODE	COURSE TITLE	COURSE OUTCOMES		
			1. Apply the essential tool of matrices in a comprehensive		
1	1821101	MATHEMATICS – I	manner		
			2.Describe the convergence of series		
			3. Classify the functions of several variables which is useful in		
			optimization techniques		
			4. Define Beta and gamma functions and solve definite		
			Integrais.		
			5. Determine the Fourier series of the functions.		
			1 Ability to apply the knowledge of Sciences to solve		
			angineering problems by using Interference and Diffraction		
2	182210/	PHVSICS	techniques (11)		
2	1022104	11113103	2 Able to understand the idea of Electronic materials & its		
			applications in Engineering.(12)		
			3. Determine to the formulate and solve problems. (L3)		
			4. Analyze to identify and formulate the working elements of		
			different lasers and estimate Laser operation parameters. (L4)		
		Basic Electrical	1. Understand basic electric circuits and network solving		
3	1802103	Engineering	techniques.		
			2.Analyze RL, RC and RLC circuits for AC excitations		
			3. Understand working principle, operation and construction of		
			DC machines, 3-0 induction motors and 1-0 transformers		
			4. Understand the components of low voltage electrical		
			IIIStaliations		
			Efficiency of DC machines, 2 & induction motor and 1 &		
			transformer		
		ENGINEERING	1.Use CAD drafting and editing tools along with page		
4	1803107	GRAPHICS & DESIGN	templates, title block & print settings		
			2.Describe the geometric details of Engineering		
			objects&Become familiar with Auto Cad 2D 3D drawings		
			3.Understand Engineering drawing basic theory of		
			projectionsrelated to points lines, planes and solids in different		
			orientations and drafting them in cad software		

			4.Analyze various sectional views related to Engineering Drawings andCreate isometric drawings with 3d tools along with basic theory& procedures in engineering drawing
		ENGINEERING	1 Evaluate of the application of interference diffraction
5	1822108	PHYSICS LAB	phenomena along with laser
			2. Support the scientific process in the conduct and reporting of
			experimental investigations.
			 3.Formulate the measurement technology, usage of new instruments and real time applications in engineering studies 4.Justify the theoretical ideas and concepts covered in lecture by doing hands on in the experiments. 5.Develop the characteristics of various materials in a practical manner and gain knowledge about various optical technique.
			methods
			6.Compose experimental data to examine the physical laws.
		Basic Electrical	1 Understand the Kirchhoff's laws by theoretically and
6	1802109	Engineering Lab	practically
	1002107		2.Determine the active and reactive power for RL, RC and RLC circuits.
			3.Determine equivalent circuit parameters on no-load and its performance on load of a 1-Ø transformer.
			4. Analyze the characteristics of DC shunt motor and 3-Ø Induction motor
			5. Identify various parts of DC and AC machines, fuse, MCB & Batteries.
7	1803110	WORKSHOP AND MANUFACTURING PRACTICES	1.Identify different manufacturing processes which are commonly employed in the industry
			2.Analyze the practical knowledge about fabricate components using different materials with their own hands
			3.Understand the knowledge of the dimensional accuracies and tolerances applicable for different manufacturing processes
			4.Experiment 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
			1.Solve the first order and higher order linear differential
8	1821201	MATHEMATICS – II	equations with constant coefficients.(L3)

			2. Apply Laplace Transforms in engineering problems. (L3)
			3.Evaluate multiple integrals.(L5)
			4. Understand Vector Calculus concepts and analyze their
			applications in engineering problems. (L4)
			1.Analyse microscopic chemistry in terms of atomic and
		ENGINEERING	molecular orbitals and intermolecular forces. Properties of
9	1823207	CHEMISTRY	metals, water and thermodynamic considerations.
			2 Rationalize periodic properties such as ionization potential,
			electro negativity and oxidation states .
			3.Distinguish the ranges of the electromagnetic spectrum used
			for exciting different molecular energy levels in various
			spectroscopic techniques.
			4. Remember the major chemical reactions that are used in the
			synthesis and streochemistry of molecules.
			1.Describe the classification of words, sentences and their
10	1824203	English	usages in sentences.
			2. Understand the difference between spoken and written
			English.
			3.Analyze the rules in language for changing the form of
			sentences.
			4.Illustrate the factors that influence grammar and vocabulary
			in speaking and writing
			5. Classify the parts of speech, tenses and sentence structures
		PROGRAMMING FOR	1. Understand the basics of computer system and C
11	1805204	PROBLEM SOLVING	programming.
			2.Analyze a given problem and develop an algorithm to solve
			the problem.
			3.Apply proper branching and loop constructs to solve a
			complex problem
			4. Understand the concepts of arrays and strings to solve real
			time applications
			5. Apply modular approaches for solving complex problems
			6.IIIustrate memory optimization for solving real world
			problems using structures and Unions
10	1000007		I.Estimate rate constants of reactions from concentration of
12	1823207	Chemistry Lab	reactants/products as afunction of time.

			2. Measure molecular/system properties such as surface
			chloride content of water, etc.
			3 Synthesize a small drug molecule and analyse a salt sample
		PROGRAMMING FOR	
		PROBLEM SOLVING	
13	1805208	LAB	1. Analyze given problem and develop an algorithm
			2.Implement Code and debug programs in C language using
			various constructs
			3. Choose proper C language constructs to solve complex
			problems.
			memory utilization
		English Language	
14	1024200		1 Describe objects places and persons
14	1824209	SKIIIS LAD	1. Describe objects, places and persons.
			2.0 Inderstand the insterning process and answer the questions
			2 Analyza phonotics with examples
			A Illustrate, different modes of communication skills
			5 Classify I SPW skills
15	18994M1	SCIENCE	developmental activities towards the society.
			2.Summarize the interconnection of human dependence on this
			ecosystem.
			3.Solve environmental problems by gaining a higher level of
			knowledge and personal involvement.
			4. Outline the impact of developmental activities on
			environment and proper utilization of natural resources.
		BASICS OF	
17	100 4000	ELECTRONICS	1. Understand the operation of various Diodes and their
16	1804302	ENGINEEING	applications
			2. Explain the operation of transistor circuits under different
			Connigurations
			A Illustrate the architecture of Microprocessor and
			4. must are the architecture of which oppocessor and Microcontroller
			1 Understand the variety of abstract data types and data
17	1805303	DATA STRUCTURES	structures.
.,			
			2.Analyze data structures such as linked list, Stacks and Queues.

			3. Apply and analyze tree traversal algorithms and graph traversal algorithms.
			4. Organize data in order using various sorting algorithms.
			5.Organize data in order using various sorting algorithms.
18	1805304	DISCRETE MATHEMATICS	1.Demonstrate knowledge on mathematical logic and Analyze truth tables, normal forms, implications, rules of inference
			2.Understand the basic principles of mathematical objects such as sets, relations
			3.Apply basic counting techniques to solve combinatorial problems
			4.Able to solve recurrence relations.
			5.Demonstrate different traversal methods for trees and graphs
		DIGITAL LOGIC	
19	1805305	DESIGN	1.Recall Binary Number systems
			2.Understand Boolean algebra and apply to the Boolean
			functions.
			3. Apply different optimization techniques to construct effective
			4 Model combinational and sequential circuits
			5.Illustrating different registers, counters, Memory Concepts.
			1 Demonstrate and acquire knowledge on usage of Data types
14	1805306	PYTHON PROGRAMMING	operators, input and output statements in python
	1000000		2.Analyze the given problem and develop python program to solve the problem
			3.Able to use proper iterative statements in problem solving
			4. Identify the right sequence to solve the real-world problems
			5.Apply object-oriented features to solve real time applications
15	1925207	MANAGERIAL ECONOMICS AND	1.Acquire knowledge in principles and concepts of Managerial
10	1020307		2 Understand the Economic theories i.e. Demand Production
			Cost, Markets and Price.

			3.Describe different types of Markets and competition, forms
			of organization and Methods of Pricing.
			4.Examine the profitability of various Projects.
			5. Utilize tools and techniques to analyze and interpret the key
			parameters of financial performance.
		BASIC ELECTRONICS	
16	1804308	ENGINEERING LAB	1. Verify the Characteristics of diodes, transistors.
			2. Demonstrate the applications of diodes.
			3.Examine the operation of oscillators.
		DATA STRUCTURES	1. Understand and implement stack ADT, queue ADT and linked
17	1805309	LAB	list.
			2.Able to understand and implement tree traversal algorithms
			and graph traversal algorithms.
			3.Able to implement various sorting algorithms.
			4. Analyze and implement searching techniques.
		PYIHON	
18	1805310	PROGRAMMING LAB	1. Understand and solve the basics of python programming.
			2.Learn and Implement iterative as well as recursive programs
			in python
			3. Able to represent heterogeneous data with right sequence in
			python
			4 Develop Programs using object oriented features in puther
			4. Develop Programs using object-onented reatures in python
		Probability &	
10	1805402	Statistics	1 Understand the concents of Probability (12)
17	1003402	5101151105	2 Interpret the properties of probability distributions and their
			applications (13)
			3 Analyze the problems of engineering and industry using the
			techniques of testing of hypothesis for large and small
			samples.(14)
			4. Apply statistical guality control and draw appropriate
			inferences for engineering problems.(L3)
		Computer	1.Understand the organization of the control unit, Arithmetic
20	1805403	Organization	unit, Logical unit, Memory unit and the I/O unit.
		Ĭ	2.Ability to analyze memory and I/O devices effectively and to
			explore the hardware requirements for cache memory ad
			virtual memory.
			3.Recall arithmetic operations of binary number system.

			4.Illustrate the concept of pipelining and multiprocessors.
			5. Ability to understand the concept of I/O organization.
21	1805404	Operating Systems	services
			2. Analyze the process scheduling algorithms and process
			synchronization mechanisms.
			3. Analyze the various memory management schemes.
			4.Understand the ways to deal with deadlocks and concepts related to file systems
			5.Analyze the protection and security mechanisms.
		Design and Analysis	1. Prove the correctness and analyze space and time complexity
22	1805405	of Algorithms	of an algorithm.
		Ŭ	2.Apply the algorithms to solve the problems
			3. Understand different algorithm design strategies and apply to
			real time problems.
			4.know the limitations of various design strategies.
23	1805406	Java Programming	1. Able to understand the use of OOPs concepts.
			2.Solve real world problems using OOP techniques.
			3. Understand the use of abstraction.
			4 Able to understand the use of Packages and Interface in java
			5 Able to develop and understand exception handling
			multithreaded applications with synchronization
			6 Design GUI based applications and develops applets for web
			applications.
		Formal Languages	
		and Automata	
24	1825407	Theory	1. Demonstrate knowledge on Formal languages and automata
			2. Analyze the classification of languages, automata's and their
			computing power.
			3.Design grammars and automata (recognizers) for regular
			expressions and formal languages.
			4.solve to the computational problems using Push Down
			automata
			E Apply Turing Machine to calve computational problems
			5. Apply runny machine to solve computational problems
			1 Implement the basic principles of Object Oriented
		lava Programming	Programming which includes inheritance, polymorphism
26	1805408	lah	encapsulation and abstraction
20	1000100	14.2	

			2.Implement classical problems using java programming.
			3. Able to write GUI programs using Applets, Swings in Java.
		OPERATING SYSTEMS	1. Implement process scheduling and process synchronization
27	1805409	LAB	mechanisms.
			2.Implement page replacement algorithms and memory
			allocation techniques.
			3.Implement paging and segmentation schemes.
			4.Implement deadlock avoidance and detection schemes.