Department of Basic Science Engineering

	Course Outcome Statement						
	Course:	Code: 18MAT11 Course Name: Calculus and Linear Algebra	Faculty: Prof. Amrutha, Prof. Kshama Jain, Prof. Uma Devi R, Prof. Mahesh K S, Prof. Ramya N, Prof. Arpita Kar & Prof.	Academic Year: 2019 – 20			
I SEM		Statement					
Common to	Course 101.1	Apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve					
both cycles	Course 101.2	Learn the notion of partial differentiation to calculate rates of change of multivariate functions and solve problems related to composite functions and Jacobians					
	Course 101.3	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing the area and volume					
	Course 101.4	o1.4 Solve first order linear/nonlinear differential equaitons analytically using standard methods.					
	Course 101.5	Make use of matrix theory for solving system of linear equations and compute eigen values and eigen vectors required for matrix diagonalization process.					

	Course Outcome Statement						
Course:	Code: 18PHY12/22 Course Name: Engineering Physics	Faculty: Prof. Nayana B L, Prof. Kanchana S K, Prof. Savitha V, Dr. Shivraj Watage & Prof. Chethan P B	Academic Year: 2019 – 2				
	Statement						
	Understand various types of oscillations and their implications, the role of shock waves in various fields and recognize the elastic properties of						
Course 102.1	materials for engineering applications.	netic field, the transverse nature of the EM waves and their role as optical					
Course 102.2	fiber communication.	ietic field, the transverse nature of the EW waves and then fole as optical					
Course 102.3							
Course 102.4	Apprehend theoretical background of laser, construction and working	<u> </u>					
Course 102.5	Understand various electrical and thermal properties of materials like	e conductors, semiconductors and dielectrics using different theoretical models					
		Course Outcome Statement					
Course:	Code: 18ELE13/23 Course Name: Basic Electrical Engg.	Faculty: ECE Dept.	Academic Year: 2019 – 20				
	Statement						
Course 103.1	Analyse D.C and AC circuits.						
Course 103.2	Explain the principle of operation and construction of single phase transformers and discuss concepts of electrical wiring, circuit protecting devices and earthing.						
Course 103.3	Explain the principle of operation and construction of DC machines a	and AC machines					
	Course Outcome Statement						
Course:	Code: 18CIV14/24 Course Name: Elements of Civil Engg.	Faculty: Civil Dept.	Academic Year: 2019 – 20				
Course 104.1	Mention the applications of various fields of Civil Engineering						
Course 104.2	Compute the resultant of given force system subjected to various loads						
Course 104.3	Comprehend the action of Forces, Moments and other loads on systems of rigid bodies and compute the reactive forces that develop as a result of the external loads						
Course 104.4	Locate the Centroid and compute the Moment of Inertia of regular and built-up sections						
Course 104.5	Express the relationship between the motion of bodies and analyze the bodies in motion						
		Course Outcome Statement					
Course:	Code: 18EGDL15/25 Course Name: Engineering Graphics	Faculty: Prof Puneet H M, Prof Srinivas Chari, Prof Balakrishna G,Prof Praveen B C	Academic Year: 2019 – 20				
Course.	course name. Engineering orupines	1 Turcen B C	ricuacinic real. 2019 20				

	Statement					
Course 105.1	Prepare engineering drawings as per BIS conventions mentioned in the relevant codes					
Course 105.2	Produce computer generated drawings using CAD software.					
Course 105.3	Use the knowledge of orthographic projections to represent engineeri	ng information I concepts and present the same in the form of drawings.				
Course 105.4	Develop isometric drawings of simple objects reading the orthographi	c projections of those objects.				
Course 105.5	Convert pictorial and isometric views of simple objects to orthographi	c views.				
		Course Outcome Statement				
Course:	Code: 18PHYL16/26 ourse: Course Name: Engineering Physics Lab Faculty: Prof. Nayana B L, Prof. Kanchana S K, Prof. Savitha V, Dr. Shivraj Watage & Prof. Chethan P B Academic Year: 201					
	Statement					
Course 106.1	Apprehend the concepts of interference of light, diffraction of light, Fermi energy and magnetic effect of current					
Course 106.2	Understand the principles of operation of optical fibers and semiconductor devices such as photodiode, and NPN transistor using simple circuits					
Course 106.3	Determine elastic moduli and moment of inertia of given materials wi	th the help of suggested procedures.				
Course 106.4	Recognize the resonance concept and its practical applications					
Course 106.5	Understand the importance of measurement procedures, honest record	rding and representing the data; reproduction of final results				
		Course Outcome Statement				
Course:	Code: 18ELEL17/27 Course Name: Basic Electrical Engg. Lab Faculty: ECE Dept. Academic Year: 2019 – 20					
	Statement					
Course 107.1	Identify the common electrical components and measuring instruments used for conducting experiments in electrical laboretory					
Course 107.2	Compare power facter of lamps					
Course 107.3	Explain the principle of operation and construction of DC machines and AC machines					

	Course Outcome Statement				
	Course:	Code: 18EGH18 Course Name: Technical English I	Faculty: Prof. Chitra and Prof. Girija	Academic Year: 2019 – 20	
I SEM		atement			
Common to	Course 108.1	Use grammatical English and essentials of language skills and identify the nuances of phonetics, intonation and flawless pronounciation			
both Cycles	Course 108.2	Implement English Vocabulary at command and language proficiency			
	Course 108.3	Identify common errors in spoken and written communication			
	Course 108.4	Understand and improve the non verbal communication and kinesics			
	Course 108.5	Perform well in Campus recruitement, engineering and all other gener	al competitive examinations.		

	Course Outcome Statement			
Course:	Code: 18CHE12/22 Course Name: Engineering Chemistry	Faculty: Dr. Srinivas, Dr. Venkatesh S, Prof. Murali T G, Prof. Sushma B S & Dr. Prakashaiah B G	Academic Year: 2019 – 20	
	Statement			
Course 102.1	Use of free energy in equilibria, rationalize bulb properties and processes using thermodynamic considerations electrochemical energy systems			
Course 102.2	Causes & effects of corrosion of metals and control of corrosion, Modification of surface properties of metals to develop resistance to corrosion, wear, tear, impact etc. by electroplating and electroless plating.			
Course 102.3	Production and Consumption of energy for industrialization of country and living standards of people. Electrochemical and concentration cells. Classical, modern batteries and fuel cells. Utilization of solar energy for different useful forms of energy.			
Course 102.4	Envirionmental pollution, waste management and water chemistry.			
Course 102.5	Different techniques of instrumental methods of analysis. Fundamental Principles of nano materials.			

			Course Outcome Statement					
		Code: 18CPS13/23						
	Course:	Course Name: 'C' Programming and Problem Solving	Faculty: CSE / ISE Dept.	Academic Year: 2019 – 20				
		Statement						
	Course 103.1	Explain the basics of computer system and C programming language.						
	Course 103.2 Apply the knowledge of control statements to write C programs to solve a given problem.							
	Course 103.3	Write C programs using arrays and strings.	· ·					
	Course 103.4 Modularize the given problem using functions and structures. Course 103.5 Define and use pointers to write efficient C programs.							
	Course 103.6	Design and develop solutions to real world problems by using compu	iter programming .					
			Course Outcome Statement					
		Code: 18ELN14/24						
	Course:	Course Name: Basic Electronics	Faculty: ECE Dept.	Academic Year: 2019 – 20				
		Statement	**************************************					
	Course 104.1	Analyze the working of diode and apply in rectifiers, filter circuits, Ze	ener, LED					
I /II SEM	Course 104.2	Analyze the working of FET, Mosfet, SCR						
CHEMISTR	Course 104.3	Analyze simple circuits like amplifiers (inverting and non inverting), comparators, adders, integrator and differentiator using OPAMPS						
Y	Course 104.4	Understand the working of BJT and application						
CYCLE	Course 104.5	Compile the different building blocks in digital electronics using logic gates and implement simple logic function and to Understand the functioning of a communication system						
	Course Outcome Statement							
	Course:	Code: 18EME15/25 Course Name: Elements of Mechanical Engg.	Faculty: Prof Chetan C S,Prof Anjankumar D, Prof Geetha C, Prof Venkatesh G,Prof Puneet H M.	Academic Year: 2019 – 20				
		Statement						
	Course 105.1	Learn the fundamental concepts of energy, its sources and conversion	n.					
	Course 105.2	Comprehend the basic concepts of thermodynamics.						
	Course 105.3	Understand the concepts of boilers, turbines, pumps, internal combustion engines and refrigeration						
	Course 105.4	Distinguish different metal joining techniques.						
	Course 105.5	Enumerate the knowledge of working with conventional machine tools, their specifications.						
			Course Outcome Statement					
	Course:	Code: 18CHEL16/26 Course Name: Engineering Chemistry Lab	Faculty: Dr. Venkatesh S, Prof. Murali T G, Prof. Sushma B S & Dr. Prakashaiah B G	Academic Year: 2019 – 20				
		Statement						
	Course 106.1		ng small quantities of materials involved for quick and accurate results					
	Course 106.2	Carrying out different types of titration for estimation of concerned in materials using comparatively more quantities of materials involved for good results						
		Commence Contracting Statement Statement						
			Course Outcome Statement					
		Code: 18CPL17/27 Course Name: 'C' Programming and Problem Solving Lab	Faculty: CSE / ISE Lab	Academic Year: 2019 – 20				
	Course:	Course Name: C Frogramming and Froblem Solving Lab	2 10 11 10 10 10 10 10 10 10 10 10 10 10	110000011110 10011 = 011				
	Course:	Statement						
	Course 107.1							

Course 107.3 Ability to work with textual information, characters and strings.				
	Course 107.4	Ability to work with arrays, and understanding the concept of functions		
	Course 107.5	Ability to work with handling the errors		

	Course Outcome Statement				
	Course:		Academic Year: 2019 – 20		
II SEM		Statement Illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the inter dependence of line,			
Common to both cycles	Course 201.1	surface and volume integrals			
both cycles	Course 201.2	Demonstrate various physical models through higher order differential equation and solve such linear ordinary differential equations			
	Course 201.3 Construct a variety of partial differential equations and solution by exact methods/method of separation of variables.				
	Course 201.4	Explain the applications of infinite series and obtain series solution of ordinary differential equation.			
	Course 201.5	Apply the knowledge of numerical methods in the modeling of physical and engineering phenomena.			

Course Outcome Statement				
	Course:	Code: 18EGH28 Course Name: Technical English II	Faculty: Prof. Jeslin	Academic Year: 2019 – 20
II SEM		Statement		
Common to Course 208.1 Identify common error in spoken and written communication				
both cycles	Course 208.2	Get familiarized with English vocabulory and language of proficiency		
		Improve nature and style of sensible writing and acquire employment and working place communication skills.		
	Course 208.4	Improve their technical communication skills through technical reading and writing practices		
	Course 208.5	Perform well in campus recruitment, engineering and all the general competitive examinations		

NOTE:

100 series 101...etc First semester subjects including Practicals, Projects etc.,
200series 201...etc Second semester subjects including Practicals, Projects etc.,
300 series 301...etc Third semester subjects including Practicals, Projects etc.,
400 series 401...etc Fourth semester subjects including Practicals, Projects etc.,
500 series 501...etc Fifth semester subjects including Practicals, Projects etc.,
600 series 601...etc Sixth semester subjects including Practicals, Projects etc.,
700 series 701...etc Seventh semester subjects including Practicals, Projects etc.,
800 series 801...etc Eigth semester subjects including Practicals, Projects etc.,