DON BOSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI

DEPARTMENT OF INFORMATION TECHNOLOGY

CAY- (Odd semester, 2016-17)

Course Name:	Applie	ed Mathema	atics – III			
Course Code		SEITC30	1			
Faculty Name:		Sonali				
Year	2	Sem	III			
CO Number				Course Outcome		
C301.1				verse Laplace Transforms of various standard functions.Define harmonic functions,Orthogonal trajectories.Define ations.Define Scalar & vector product, gradient,curl, divergence, directional derivative. Define Z transform & Inverse Z		
C301.2	Cauchy – Riei transformatior Fourier series Obtain Volum	mann equa n and its fix , half-range e of paralle	tions to verify if a ed points. Find th Fourier series a lopiped & tetrahe	aplace Transforms of combinations of standard functions using the properties of Laplace and Inverse Transforms. Find a function is analytic .Obtain the harmonic conjugate and orthogonal trajectory of given family. Find bilinear he image under given transformations.Understand the properties of orthogonal and orthonormal functions and obtain nd Fourier sine and cosine series of periodic functions.Obtain complex form fourier series of functions. edron. Understand properties of gradient. Find directional derivative of a function, curl, divergence. Obtain Z transform verse Z transform using Partial fraction method.		
	Apply Laplace and Inverse Laplace transform concepts to evaluate integrals, solve initial and boundary value problems. (Applications in Heat and Wave equations) Apply the concepts to obtain Fourier Integral representations of functions. Obtain line integral of a function.					
C301.4	Evalute integr	al using Sto	oke's theorem &	Gauss Divergence theorem.		

Course Name:	Data Struct	ture & Algo	rithm Analysis						
Course Code		SEITC30	2						
Faculty Name:	Sushree Satapathy								
Year	2 Sem III		III						
CO Number				Course Outcome					
C302.1	Students will b	e able to d	efine the ADT for	different data structures					
C302.2	Student will be	e able to de	monstrate operat	tions like searching, sorting, insertion, deletion, traversing mechanism, hashing etc. On various data structures					
C302.3	Student will be	tudent will be able to identify appropriate data structure as applied to specified problem definition in different domains like DBMS, compiler construction etc.							
C302.4	Sudents will be	Sudents will be able to classify algorithms on the basis of their time complexity							
L302.1	Student will be	Student will be able to construct operations like searching, sorting, insertion, deletion, traversing mechanism, hashing etc. On various data structures							
L302.2	Student will be	e able to ch	oose appropriate	data structure as applied to specified problem definition in different domains like DBMS, compiler construction etc.					

Course Name:		bject Orie mming Me	nted thodology						
Course Code		SEITC30	3						
Faculty Name:	Ai	runa Khub	alkar						
Year	2 Sem III]					
CO Number				Course Outcome					
C303.1	Classify proce	dural and (DO methodologie	9S.					
C303.2	Apply OOP co	ncepts in p	roblem solving a	nd implement them using classes and objects.					
C303.3	Explain differe	xplain different features and components of Java programming language.							
C303.4	Solve computa	olve computational problems using basic constructs like if-else, control structures, array, strings.							
C303.5	Demonstrate v	emonstrate various collection classes.							
C303.6	Justify which J	lava featur	e – interface, exc	ceptions, multithreading, applets, to be used in problem solving.					

Course Name:	Anal	og & Digital	Circuits						
Course Code		SEITC30	4						
Faculty Name:	М	adhavi Pedı	nekar						
Year	2 Sem III								
CO Number				Course Outcome					
C304.1	Students will	Students will be able to understand and aware of various analog and digital components to be used in Electronics world. (Remembering)							
C304.2	Students will	Students will be able to explain functioning of different types of stable analog and digital circuits with their applications. (Understanding)							
C304.3		Students will be able to perform Number System Calculations and Conversions, also to minimize the logical expressions using Boolean Laws to reduce the ardware cost for better performance of circuits. (Applying)							
C304.4	Students will	Students will be able to acquire basic knowledge of designing various Analog and digital circuits like Combinational and Sequential circuits. (Analyzing)							
C304.5	Students wil	Students will be able to translate real world problems into digital logic formulations.(Evaluating)							
C304.6		tudents will be able to apply their basic knowledge acquired in designing simple analog & digital circuits to understand the need of Microprocessor and icrocontroller systems. (Creating)							

Course Name:	Database Management Systems							
Course Code		SEITC30	5					
Faculty Name:	Shivsevak Negi							
Year	2 Sem III							
CO Number				Course Outcome				
C305.1	To describe d	lata mode	s and schemas i	n DBMS				
C305.2	To define and	o define and discuss the features of DBMS, Entity relationship and Relational database.						
C305.3	To write/exe	o write/execute complex SQL queries to manipulate databases information.						
C305.4	To explain th	To explain the functional dependencies and apply normalization concept to design an optimal database.						
C305.5	To explain the	e concept o	f Transaction and	Query processing.				

Course Name:		es of Analo ommunica					
Course Code		SEITC30	5				
Faculty Name:	N	amita Agaı	wal				
Year	2	Sem	111				
CO Number				Course Outcome			
C306 .1	Students will b	e able to d	efine and describ	e the basic principles and techniques used in analog and digital communication.			
C306 .2	Students will b	e able to e	xplain and discus	ss about the various types of modulation-demodulation and multiplexing techniques			
C306 .3	Students will b	e able to a	pply their knowle	dge to solve problems and calculate communication system parameters like BW,Power,SNR etc			
C306 .4	Students will b	e able to a	nalyze, compare	and evaluate the performance of different types of communication systems.			
Course Name:		outer Graph /irtual Rea					
Course Code		TEITC50	1				
Faculty Name:	Vais	shali Kavat	hekar				
Year	3	Sem	V				
CO Number				Course Outcome			
C501.1	Students will b	e able to d	efine the basic co	oncepts of computer graphics			
C501.2	students will be able to differentiate the algorithm of scan conversion, curve generation, transformations, area filling , clipping						
C501.3	students will be able to demonstrate their abilities to create animation using Morphing, Warping techniques						
C501.4	tudents will be able to describe the concept of VR						
C501.5	Students will a	nalyze the	different models	of VR			
C501.6	Student will be	able to de	monstrate visual	object using VRML			

Course Name:	Oper	rating Syste	ems						
Course Code	٦ T	TEITC502							
Faculty Name:	Ma	ahalaxmi S	i.						
Year	3 Sem V								
CO Number				Course Outcome					
C502.1	Student will know	Student will know about and recall the components of a computer system and the types of software							
C502.2	Student will unde	erstand and	plain what makes a computer system function and the need for various architectures and the types of OS						
C502.3	Student will unde	Student will understand the working of an OS as a manager of various resources and model it.							
C502.4	Student will learr	Student will learn about the management policies and algorithms used by operating systems to manage resources and apply the same to problems .							
C502.5	Student will impl same.	lement som	ne of the function	ons of OS such as scheduling policies page replacement algorithms, IPC and compare and conclude regarding the					

Course Name:	Microcol	Microcontroller and Embedded Systems					
Course Code	TEITC503						
Faculty Name:	Ja	Janhavi Baikerikar					
Year	3	3 Sem V					
CO Number		Course Outcome					
C503.1	Student will be	tudent will be able to comprehend basic structure & concepts in embedded systems					
C503.2	Student will be	Student will be able to comprehend microcontroller architecture					
C503.3	Student will be	Student will be able to program microcontroller.					
C503.4	Student will be able to design conceptual embedded system						
C503.5	Student will be	tudent will be able to select memory allocation algorithm for a given embedded application					
C503.6	Student will be	tudent will be able to control the usage of shared resources					

Course Name:		vanced Data agement Sy						
Course Code		TEITC504						
Faculty Name:	Aruna Khubalkar							
Year	3	Sem	V					
CO Number				Course Outcome				
C504.1	Create comple	ex queries u	sing SQL, so as	s to retrieve and manipulate information in a database.				
C504.2	Design and de	evelop full-fle	edged real life a	pplications integrated with database systems.				
C504.3	Clearly descri	learly describe how databases are actually stored and accesses, how transaction ACID properties are maintained, and how a database recovers from failures.						
C504.4	Apply security	pply security controls to avoid any type of security incidents on vital database systems.						
C504.5	Explain advan	Explain advanced data systems using Object based systems or Distributed Databases for better resource management.						
C504.6	Understand th	e importanc	e of enterprise	data and be able to organize data to perform analysis on the data and take strategic decisions.				

Course Name:	Open	Source Tec	hnologies					
Course Code		TEITC50	5					
Faculty Name:	Tayyabli Sayyad							
Year	3	Sem	V					
CO Number				Course Outcome				
C305.1	Students will	be able to ir	nstall Linux and th	ey will be aware of Linux environment as Operating System				
C305.2	Students will	be able to d	emonstrate shell	scripting and programming skills in open source environment for system administrators				
C305.3	Students will	be able to d	evelop android a	oplications				
C305.4	Students will	udents will be able to implement various services in Linux environment						
C305.5	Students will	Students will understand open source philosophy						
C305.6	Students will	tudents will be able to develop and manage website						
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Course Name:	Business	Communi Ethics	cation and					
Course Code		TEITC506	6					
Faculty Name:		Dr. Mohini	i					
Year	3 Sem V							
CO Number				Course Outcome				
C506.1	Utilize commun	ication skil	lls effectively in b	both oral and written form				
C506.2	Demonstrate kr	nowledge o	of professional a	nd ethical responsibilities				
C506.3	Develop an attit	Develop an attitude for life-long learning						
C506.4	Manifest an ent	Ianifest an entrepreneurial approach						
C506.5	Participate and succeed in Campus placements and competitive examinations like GATE, CET.							
C506.6	Demonstrate an awareness of contemporary issues							
C506.7	Develop thinkin	g skills ne	cessary for analy	vsing the impact of engineering solutions on Society				

Course Name:	c,	Software Pro Manageme							
Course Code		BEITC70	1						
Faculty Name:		Mahalaxmi	S.						
Year	4	Sem	VII	1					
CO Number				Course Outcome					
	Demonstrate knowledge ar		anding of the rela	ationships between the phases of the Project life cycle and SDLC, ITPM and the PMBOK process groups and					
C701.2	Evaluate the	valuate the need for various project implementation methods and the need for PM and ITPM.							
C701.3	Apply the kno	pply the knowledge of the PMBOK areas to formulate the steps of preparing the deliverables of ITPM phases.							
C701.4	Formulate the deliverables of ITPM phases.								
C701.5	Practice team	ractice team work and team spirit through the project work							

Course Name:	C	loud Compu	ting				
Course Code	BEITC702						
Faculty Name:	Tayyabli Sayyad						
Year	4	Sem	VII				
CO Number		Course Outcome					
C702.1	C702.1- Stude	C702.1- Students will be able to Differentiate cloud computing from other computing techniques.					
C702.2	C702.2 - Stud	C702.2 - Students will be able to Differentiate various cloud computing services and deployment techniques.					
C702.3	C702.3 - Stud	C702.3 - Students will be able to Handle open source cloud implementation and Administration.					
C702.4	C702.4 - Students will be able to understand risks involved in cloud computing.						
C702.5	C702.5 - Students will be able to Create and deploy cloud application.						

Course Name:	Intelligent System					
Course Code	BEITC703					
Faculty Name:	Uday					
Year	4 Sem VII					
CO Number				Course Outcome		
C703.1	Students will a	Students will able to describe the building blocks of AI				
C703.2	Student will be able to recognize an appropriate problem solving strategy					
C703.3	Student will be able to analyze and formulate problem solving technique and algorithm					
C703.4	Student will be able to build simple IS by using either Java or Prolog					
C703.5	Student will be able to design / build a knowledge representation scheme					
C703.6	Student will be able to use Prolog and Java to develop in any logic machine / system in any domain of AI.					

Course Name:	Wireless Technology					
Course Code	BEITC704					
Faculty Name:	Nilesh Ghavate					
Year	1	1 Sem VII				
CO Number		Course Outcome				
C704.1	Student will be	Student will be able to understand characteristics of communication channel, radio access techniques and multi user detection				
C704.2	Student will be	Student will be able to understand and compare various technologies used to implement wireless network				
C704.3	Student will u	Student will understand and apply cellular concepts and the security issues in wireless network				
C704.4	Students will be able to understand the new trends in the mobile / wireless networking					
C704.5	Student will be able to simulate the wireless network algorithms					
C704.6	Student will be able to design a wireless network					

Course Name:	Elective – I Image Processing					
Course Code	BEITC7051					
Faculty Name:	Anagha Shastri					
Year	4 Sem VII					
CO Number				Course Outcome		
	Students will be able to describe fundamental concepts of digital image processing and various enhance techniques in spatial and frequency domain.					
C7051.2	Students will be able to explain spatial filtering concepts.					
C7051.3	They will be able to solve problems based on fundamentals of signal processing, DFT and FFT.					
C7051.4	They will be able to use various morphological operations and compression algorithms.					
C7051.5	They will be able to illustrate image segmentation and representation techniques as well as various image processing applications.					

Course Name:	Elective – I E-Commerce & E-Business]			
Course Code	BEITC7053						
Faculty Name:	Vaishali Kavathekar						
Year	4	4 Sem VII					
CO Number		Course Outcome					
C7053.1	Students will I	Students will be able to understand the technical aspect of E- Commerce and E- Business					
C7053.2	Students will I	Students will be able to analyze the Hardware and software technologies required for E-Commerce					
C7053.3	Students will I	Students will be able to gain the knowledge on payment system of E-Commerce					
C7053.4	Students will I	Students will be able to understand the concept of E-Marketing and E- Business strategies					
C7053.5	Students will be able to develop E- business model with various functionalities.						
C7053.6	Students will I	Students will be able to apply design principles for creating a web portal constituting modules of E-Commerce					

Course Name:	Project Stage-I						
Course Code	BEITC707						
Faculty name	Tayyabli Sayyad						
Year	4 Sem VII		VII				
CO Number				Course Outcome			
C703.1	Students will a	Students will able to describe the building blocks of AI					
C703.2	Student will be	Student will be able to recognize an appropriate problem solving strategy					
C703.3	Student will be	Student will be able to analyze and formulate problem solving technique and algorithm					
C703.4	Student will be able to build simple IS by using either Java or Prolog						
C703.5	Student will be able to design / build a knowledge representation scheme						
C703.6	Student will be able to use Prolog and Java to develop in any logic machine / system in any domain of AI.						