DON BOSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI SE IT Applied Mathematics – IV ITC401 Students will be able to Define prime numbers, composite numbers Identify discrete and continuous random variables Obtain mean and variance and mgr of discrete and continuous random variables Identify population, sample (small and large) Define Karl Pearson's correlation coefficient and Spearmain's rank correlation coefficient Students will be able to Identify primes in any given range of integers Factorize 4 digit numbers into prime factors Obtain pdf and odf of discrete and continuous random variables (including special discrete – Bitomial and Poisson and special continuous – normal) Calculate various probabilities of random variables following Binomial Poisson and Normal distributions Karl Petarson's Coefficient of Correlation and Spearman's Rank Correlation and Spearman's Rank Correlation and Spearman's Rank Correlation and regular polyabilities of the population on the population on the polyabilities on the population on the polyabilities on the population of the polyabilities of the polyabilities on the polyabilities of the polyab ITC401.2 Students will be able to Obtain the Euler's totient function, quadratic residues, Legendre and Jacobi symbols Obtain MGF and hence of mean and wariance (up to first 4 moments) of a random variable Obtain probabilities using correct interpretation of Binomial distribution and also Binomial approximation to romand approximations to binomial distribution and also Binomial approximation to normal distribution Apply Central Humil' Tree obtain probabilities Test if there is significant difference between population mean and sample mean and two population means. ITC402.1 Describe the functions of each layer in OSI and TCP/IP model. Explain the functions of Application layer and Presentation layer paradigms and Protocols ITC402.3 Describe the Session layer design issues and Transport layer services. ITC402.4 Classify the routing protocols and analyze how to assign the IP addresses for the given network. ITC402.5 Describe the functions of data link layer and explain the protocols ITC402.6 Explain the types of transmission media with real-time applie Course Name: Operating Systems CO Number CONTROLL CO ITC404 Faculty Name: CO Number Course Outcome Course Course Outcome Course Outcome Course Outcome Course Outcome Cour Automata Theory ITC405 Year 2 Sem IV CO Number Course Outcome Tr (405.1 Understand, design, construct, analyze and interpret Regular language, Expression and Grammars Tr (405.2 Design different types of Finite Automata and Machines as Acceptor, Verifier and Translator. Tr (405.3 Understand, design, analyze and interpret Context Free languages, Expression and Grammars. ITC405.4 Design different types of Push down Automata as Simple Parser. ITC405.5 Design different types of Turing Machines as Acceptor, Verifier, Translator and Basic computing machine Compare, understand and analyze different languages, grammars, Automata and Machines and appreciate their power and convert Automata to Programs and Functions Networking Lab ITL401 TIT.401.1 Execute and evaluate network administration commands and demonstrate the installation and configuration of network simulator III.401.3 Demonstrate and measure different network scenarios and their perfections. trate their use in different network scenarios ITI.401.4 Analyze the contents the packet contents of different protocols. ITI.401.5 Implement the socket programming for client server architecture ITI.401.6 Design and setup a organization network using packet tracer. Unix Lab Aruna Khubalkar 2 Sem IV CO Number Course Outco ITI.402.1 Identify the basic Unix general purpose commands. ITI.402.2 Apply and change the ownership and file permissions using advance Unix commands. ITI.402.3 Use the awk, grep, perl scripts. ITI.402.4 Implement shell scripts and sed ITI.402.5 Apply basic of administrative ta ITL402.6 Apply networking Unix command Course Name: Microprocessor Programming Lab Faculty Name: Janhavi Baikerikar Year 2 Sem N ITI. 403.1 Apply the fundamentals of assembly level programming of microprocessors. ITI. 403.2 Build a program on a microprocessor using arithmetic & logical instruction set of 8086. 11.403.0 Develop the assembly level programming using 8086 loop instruction set 111.403.1 Write programs based on string and procedure for 8086 microprocessor 111.403.6 Hazive absred problems and apply a combination of hardware and software to address the Proble 111.403.6 Make use of standard test and measurement equipment to evaluate digital interfaces. culty Name: Prasad Padalkar Year 2 Sem IV CO Number Course Outcome ITI.404.1 Describe the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python ITL404.2 Express different Decision Making statements and Functions ITI.404.3 Interpret Object oriented programming in Python ITI.404.4 summarize different File handling operations

ITL404.5 Explain how to design GUI Applications in Python and evaluate different database operations ITL404.6 Design and develop Client Server network applications using Python

EEITC605.2 Student will be able to create Responsive Web Design. EEITC605.3 Student will be able to use Amazon/Google or yahoo for creating mashup. EEITC605.4 Student will be able to analyze the new features of HTML5 & CSS3 EEITC605.5 Student will be able to evaluate SEO									
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Source Course Name: System & Web Security Course Outcome Course	Faculty Name:	S	ushree Sa	itapathy					
TETCGO1.1 Meet the Information Technology Program Objectives of Identifying, formulating and solving engineering problems. TETCGO1.2 To think critically about etilical, social and environmental issues and sustainability in software engineering for different applications. To think critically about etilical, social and environmental issues and sustainability in software engineering for different applications. To think critically about etilical, social and environmental issues and sustainability in software engineering for different applications. To think critically about etilical, social and evironmental issues and sustainability in software engineering from the producing quality software for large, complex systems. TETCGO1.5 To recommend the techniques, skills, and modern engineering tools necessary for engineering practice. TETCGO2.5 To function effectively as a member of a team engaged in technical work. Course Name: ON number TETCGO2.5 Students will be able to explain the fundamental Principles of DS along with design. TETCGO2.2 Students will be able to explain the fundamental Principles of DS along with design. TETCGO2.2 Students will be able to demonstrate enterpritie service application using SolA. TETCGO2.5 Students will be able to demonstrate enterpritie service application using SolA. Course Name: System & Web Security Course Code TETCGO3.1 Define Security goals and classify attacks. Also recall various cryprographic techniques. Explain have like a like to be prepare data seeded for data mining and disease promoted and the security and classify stracks using tools/ rechniques. Explain issues and solutions related to program, network and web security, and classify various models/protocols used for secure permitted and solutions are supported by the solutions of the secure permitted and solutions of the security and classify stracks using tools/ rechniques. Course Name: Course Name: Course Name: TETCGO3.1 Students will be able to relate to the importance of data mining and the principle	Year	3	Sem	VI					
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				BE IT				
Course Name:	Storage N	letwork N Retrie	fanagement and					
Course Name:		BEITC						
Faculty Name:		Anagha S						
Year	4	Sem	VIII					
CO Number				Course Outcome				
				ompare various storage architecture like DAS, NAS, SAN, iSCSI,IP – SAN.				
BEITC801.2				ge virtualization and different types of backup and BCP.				
BEITC801.3 BEITC801.4				and retrieve information efficienty using different types of queries. imulate storage technologies like RAID, NAS, SAN etc.				
				age architectures used in different senarios using case studies.				
DEFFCOOLS								
Course Name:	Big Data Analytics							
Course Code	BEITC802							
Faculty Name:		Sunant						
Year	4	Sem	VIII					
CO Number BEITC802.1	Identify the	kov jeen	ee in hie data ma	Course Outcome nagement and its associated applications in intelligent business and scientific computing.				
BEITC802.1				uses and scalable algorithms like Hadoop,PMapReduce & NoSql in big data analytics.				
BEITC802.3				computing paradigms, and Interpret business models & scientific computing paradigms.				
BEITC802.4				g data and analytics in various applications like recommender system, social media application etc.				
Course Name:	Computer		on and Modeling					
Course Code		BEITC						
Faculty Name:	4	Prasad Pa Sem	odalkar VIII					
Year CO Number	4	Sem	VIII	Course Outcome				
	Student wi	ll be able	to know the mean	ning of simulation, its importance, application domains, simulation tools and give appropriate terminologies.				
BEITC803.2				tion types, basics of RNG.				
BEITC803.3				deling skills, simulate using spread sheet/language for a problem statement.				
BEITC803.4				fonte carlo based systems as well as the dynamic event based system.				
BEITC803.5				choice of model / tool for simulation.				
BEITC803.6	Student wi	ll be able	to create a proble	em statement from given scenario for simulation.				
Course Name:	Plead	11 0 - 6						
Course Code	Elective -II Soft Computing BEITC8045							
		REITC	2045					
		BEITC						
Faculty Name: Year	4							
Faculty Name: Year CO Number		Uda Sem	y VIII	Course Outcome				
Faculty Name: Year CO Number BEITC8045.1	Ability to e	Uda Sem laborate	y VIII the importance of	optimizations and its use in computer engineering fields and other domains.				
Faculty Name: Year CO Number BEITC8045.1 BEITC8045.2	Ability to e Students w	Sem laborate ould und	VIII the importance of lerstand inference	optimizations and its use in computer engineering fields and other domains. systems and understand the efficiency of a hybrid system and Fuzzy Logic				
Faculty Name: Year CO Number BEITC8045.1 BEITC8045.2 BEITC8045.3	Ability to e Students w Ability to a	Sem laborate ould und	VIII the importance of lerstand inference e difference between	optimizations and its use in computer engineering fields and other domains. systems and understand the efficiency of a hybrid system and Fuzzy Logic een various learning algorithms of Neural Networks.				
Faculty Name: Year CO Number BEITC8045.1 BEITC8045.2	Ability to e Students w Ability to a	Sem laborate rould und nalyse the	the importance of ierstand inference e difference betweend to explore prae	optimizations and its use in computer engineering fields and other domains. systems and understand the efficiency of a hybrid system and Fuzzy Logic				
Faculty Name: Year CO Number BEITC8045.1 BEITC8045.2 BEITC8045.3 BEITC8045.4	Ability to e Students w Ability to a Ability to p Apply gene	Sem laborate ould und nalyse the rogram a tic algori	the importance of terstand inference e difference betweend to explore practimes to combinate	optimizations and its use in computer engineering fields and other domains. systems and understand the efficiency of a hybrid system and Fuzzy Logic ene various learning algorithms of Neural Networks. etical applications of Neural Networks.				
Faculty Name: Year CO Number BEITC8045.1 BEITC8045.2 BEITC8045.3 BEITC8045.4 BEITC8045.5 BEITC8045.6	Ability to e Students w Ability to a Ability to p Apply gene Ability to h	laborate rould und nalyse the rogram a tic algority bridize	vy VIII the importance of serstand inference e difference between to combinate the combinate Neural Networks and the service of the combinate Neural Networks and the service of the combinate Neural Networks and the combinate Neural Neural Networks and the combinate Neural Neura	optimizations and its use in computer engineering fields and other domains, systems and understand the efficiency of a bybrid system and Fuzzy Logic sen various learning algorithms of Neural Networks. citical applications of Neural Networks.				
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Faculty Name: Year CO Number BEITC8045.1 BEITC8045.2 BEITC8045.3 BEITC8045.4 BEITC8045.5 BEITC8045.6 Course Name: Course Code	Ability to e Students w Ability to a Ability to p Apply gene Ability to h	Sem laborate rould und nalyse the rogram a tic algoritybridize Elective BEITCI	v VIII the importance of erstand inference e difference betweend to explore practimes to combinate Neural Networks at IERP 8041	optimizations and its use in computer engineering fields and other domains, systems and understand the efficiency of a bybrid system and Fuzzy Logic sen various learning algorithms of Neural Networks. citical applications of Neural Networks.				
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