

DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA, MUMBAI
DEPARTMENT OF INFORMATION TECHNOLOGY

CAY- (Even semester, 2016-17)

Course Name:	Applied Mathematics – IV		
Course Code	SEITC401		
Faculty Name:	Revathy Sundararajan		
Year	2	Sem	IV

CO Number	Course Outcome
C401.1	Students will be able to (i) Obtain Eigen values and Eigen vectors for a given square matrix (ii) Identify discrete and continuous random variables(iii)Obtain mean and variance and mgf of discrete and continuous random variables (iv)Identify population, sample (small and large)(v)Define Karl Pearson's correlation coefficient and Spearman's rank correlation coefficient
C401.2	Students will be able to Infer properties of Eigen values and Eigen vectors;Check if a matrix is derogatory or not; Calculate conditional Probabilities using Bayes' theorem; Obtain pdf and cdf of discrete and continuous random variables; Use Linear and Nonlinear Programming methods to solve optimization problems;
C401.3	Students will be able to Construct diagonal matrices using the concept of similarity; Verify Cayley- Hamilton theorem; Obtain required probabilities using Bayes' theorem; Obtain MGF and hence obtain the mean and variance of a random variable; Obtain moments and probabilities of Binomial, Poisson and Normal distributions; Use Z-test, t- test and Chi-square test to test hypotheses; Use Linear and Nonlinear Programming methods to solve optimization problems;

Course Name:	Computer Networks		
Course Code	SEITC402		
Faculty Name:	Tayyabli Sayyad		
Year	2	Sem	IV

CO Number	Course Outcome
C402.1	Describe the functions of each layer in OSI and TCP/IP model.
C402.2	Explain the functions of Application layer and Presentation layer paradigms and Protocols.
C402.3	Describe the Session layer design issues and Transport layer services.
C402.4	Classify the routing protocols and analyze how to assign the IP addresses for the given network.
C402.5	Describe the functions of data link layer and explain the protocols.
C402.6	Explain the types of transmission media with real-time applications.

Course Name:	Computer Organization and Architecture		
Course Code	SEITC403		
Faculty Name:	Janhavi Baikerikar		
Year	2	Sem	IV

CO Number	Course Outcome
C403.1	Student will be able to describe basic structure of computer & perform computer arithmetic operations.
C403.2	Student will be able to understand the working of control unit.
C403.3	Student will be able to use appropriate memory design that uses banks for different word size operations.
C403.4	Student will be able to compare the concept of I/O operations & instruction level parallelism.
C403.5	Students will be able comprehend the concept of pipelining.
C403.6	Student will be able to understand how ALU performs Multiplication and Division operations.

Course Name:	Automata Theory		
Course Code	SEITC404		
Faculty Name:	Uday		
Year	2	Sem	IV

CO Number	Course Outcome
C404.1	Student will be able to design different types of machines as per the constraints of language.
C404.2	Student will be able to compare different types of languages and machines
C404.3	Student will be able to apply the use of pumping lemma and closure properties to prove that some problems cannot be solved by particular machines.
C404.4	Student will be able to illustrate Power and Limitations of theoretical models of Computation.
C404.5	Students will be able to evaluate given problem statement is decidable or not.
C404.6	Student will be able to infer the Unsolvable problem.

Course Name:	Web Programming		
Course Code	SEITC405		
Faculty Name:	Nilesh Ghavate		
Year	2	Sem	IV

CO Number	Course Outcome
C405.1	Student will be able to explain/understand the basics concept of Web Technology and its Architecture.
C405.2	Student will be able to develop client side web pages using HTML,CSS, JavaScript and JQuery.
C405.3	Student will be able to frame the criteria for validation at client and server side
C405.4	Student will be able to distinguish the skills of client side and server side programming
C405.5	Student will be able to develop web extensions and webservices
C405.6	Student will be able to create a web site integrated with database.

Course Name:	ITC		
Course Code	SEITC406		
Faculty Name:	Aruna Khubalkar		
Year	2	Sem	IV

CO Number	Course Outcome
C406.1	Able to state the importance of information theory and related concepts.
C406.2	Able to understand and contrast different compression and error control techniques.
C406.3	Able to compare different cryptographic algorithms.
C406.4	Able to calculate entropy of information (Tut).
C406.5	Able to apply the mathematical concepts required for information coding, cryptography and compression techniques (Tut).
C406.6	Able to apply the cryptographic algorithms for information security (Tut).

Course Name:	Software Engineering		
Course Code	TEITC601		
Faculty Name:	Mahalaxmi S.		
Year	3	Sem	VI

CO Number	Course Outcome
C601.1	Meet the Information Technology Program Objectives of identifying, formulating and solving engineering problems.
C601.2	To think critically about ethical, social and environmental issues and sustainability in software engineering for different applications.
C601.3	To understand principles, concepts, methods, and techniques of the software engineering approach to producing quality software for large, complex systems.
C601.4	Demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
C601.5	To function effectively as a member of a team engaged in technical work.

Course Name:	Distributed Systems		
Course Code	TEITC602		
Faculty Name:	Sunantha K		
Year	3	Sem	VI

CO Number	Course Outcome
C602.1	Students will be able to explain the fundamental Principles of DS along with design.
C602.2	Students will be able to differentiate and build message communication, RMI, Clock synchronization and Election Algorithm.
C602.3	Students will be able to construct applications using Tools/Technologies like EJB, CORBA and .NET.
C602.4	Students will be able to demonstrate enterprise service application using SOA.

Course Name:	System & Web Security		
Course Code	TEITC603		
Faculty Name:	Aruna Khubalkar		
Year	3	Sem	VI

CO Number	Course Outcome
C603.1	Define Security goals and classify attacks.
C603.2	Explain the basic idea behind authentication, access control, network and web security, and classify various models/protocols used for secure system design.
C603.3	Explain issues and solutions related to program, network and web security.
C603.4	Design and implement cryptographic techniques. (Lab)
C603.5	Apply methods for simulating authentication model, software attack and firewall designing secure system. (Lab)
C603.6	Analyze network and web security attacks using tools/techniques. (Lab)

Course Name:	Data Mining & Business Intelligence		
Course Code	TEITC604		
Faculty Name:	Tayyabli Sayyad		
Year	3	Sem	VI

CO Number	Course Outcome
C604.1	Students will be able to relate to the importance of data mining and the principles of business intelligence.
C604.2	Students will be able to prepare data needed for data mining algorithms in terms of attributes and class inputs, training, validating, and testing files.
C604.3	Students will be able to implement appropriate data mining methods like classification, clustering or association mining on data sets.
C604.4	Students will be able to measure the performance of various data mining algorithms.
C604.5	Students will be able to apply BI to solve practical problems and help in Decision Support.

Course Name:	Advance Internet Technology		
Course Code	TEITC605		
Faculty Name:	Vaishali Kavathekar		
Year	3	Sem	VI

CO Number	Course Outcome
C605.1	Student will be able to develop Keyword Generation using Google Analytics
C605.2	Student will be able to create Responsive Web Design.
C605.3	Student will be able to use Amazon/Google or yahoo for creating mashup.
C605.4	Student will be able to analyze the new features of HTML5 & CSS3
C605.5	Student will be able to evaluate SEO
C605.6	Student will be able to analyze Rich Internet Application

Course Name:	Storage Network Management and Retrieval		
Course Code	BEITC801		
Faculty Name:	Prasad Padalkar		
Year	4	Sem	VIII

CO Number	Course Outcome
C801.1	Students will be able to tell about basic components of SAN technologies
C801.2	Students will be able to compare storage network architectures
C801.3	Students will be able to explain the DAS, NAS, SAN, iSCSI,IP – SAN & Information Retrieval systems
C801.4	Student will be able to make use of Virtual technologies
C801.5	Students will be able to experiment with DAS, NAS , SAN technologies
C801.6	Students will be able to evaluate design choice of the Storage technologies : HDD, RAID , NAS

Course Name:	Big Data Analytics		
Course Code	BEITC802		
Faculty Name:	Sunantha K		
Year	4	Sem	VIII

CO Number	Course Outcome
C802.1	Identify the key issues in big data management and its associated applications in intelligent business and scientific computing.
C802.2	Solve fundamental enabling Techniques and scalable algorithms like Hadoop,PMapReduce & NoSql in big data analytics.
C802.3	Analyze business models & scientific computing paradigms, and Interpret business models & scientific computing paradigms.
C802.4	Formulate adequate perspective of big data and analytics in various applications like recommender system, social media application etc.

Course Name:	Computer Simulation and Modeling		
Course Code	BEITC803		
Faculty Name:	Mahalaxmi S.		
Year	4	Sem	VIII

CO Number	Course Outcome
C803.1	Student will be able to know the meaning of simulation, its importance, application domains, simulation tools and give appropriate terminologies.
C803.2	Student will be able to explain simulation types, basics of RNG.
C803.3	Students will be able to apply the modeling skills, simulate using spread sheet/language for a problem statement.
C803.4	Students will be able to analyze the Monte carlo based systems as well as the dynamic event based system.
C803.5	Students will be able to evaluate the choice of model / tool for simulation.
C803.6	Student will be able to create a problem statement from given scenario for simulation.

Course Name:	Elective -II ERP		
Course Code	BEITC8041		
Faculty Name:	Vaishali Kavathekar		
Year	4	Sem	VIII

CO Number	Course Outcome
C804.1	Students will be able to describe the basic structure of ERP and other technologies related to ERP.
C804.2	Students will be able to analyze the business processes and implementation strategies used for ERP.
C804.3	Students will be able to explain ERP tools and its benefits.
C804.4	Students will be able to simulate life cycle of ERP using modern tools.
C804.5	Students will be able to develop E-Commerce functionalities like E-Procurement, Shopping cart and Customer Management.
C804.6	Students will be able to apply design principles for creating a web portal constituting modules of ERP.

Course Name:	Elective -II SC		
Course Code	BEITC8045		
Faculty Name:	Uday		
Year	4	Sem	VIII

CO Number	Course Outcome
ITC8045-1	Ability to elaborate the importance of optimizations and its use in computer engineering fields and other domains.
ITC8045-2	Students would understand inference systems and understand the efficiency of a hybrid system and Fuzzy Logic
ITC8045-3	Ability to analyse the difference between various learning algorithms of Neural Networks.
ITC8045-4	Ability to program and to explore practical applications of Neural Networks.
ITC8045-5	Apply genetic algorithms to combinatorial optimization problems.
ITC8045-6	Ability to hybridize Neural Networks and fuzzy logic to form a Neuro-fuzzy network.

Course Name:	Elective -II STQA		
Course Code	BEITC8046		
Faculty Name:	Sushree Satapathy		
Year	4	Sem	VIII

CO Number	Course Outcome
C8046.1	Student will be able to identify the reasons for bugs and describe the principles in software testing to prevent and remove bugs.
C8046.2	Student will be able to describe various test processes for quality improvement.
C8046.3	Student will be able to compare different testing techniques and apply the same to test software in structured, organized way.
C8046.4	Student will be able to choose appropriate testing approach for testing in different environment.
C8046.5	Student will be able to cite working of the open source testing tools.

Course Name:	PROJECT STAGE-II		
Course Code	BEITP805		
Faculty Name:	Tayyabli Sayyad		
Year	4	Sem	VIII

CO Number	Course Outcome
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C805.1	Students will be able to convert the design of the proposed project into program code.
C805.2	Student will be able to collaborate and negotiate with team and communicate with peers.
C805.3	Student will be able to produce proper technical documentation of the work.
C805.4	Student will be able to demonstrate the model/product/prototype.