

Course Name:	Applied Mathematics – III
Course Code:	ITC301
Faculty Name:	Revathy Sundararajan
Year	2 Sem III
CO Number	Course Outcome
ITC301.1	Students will be able to Obtain Laplace Transforms for a given standard function of 't' Obtain Inverse Laplace Transforms for a given simple function of 's' Define a set, power set Obtain Cartesian Product of two sets Identify population, sample (small and large) Define Relation, types of relations Define Harmonic functions and Orthogonal trajectories
ITC301.2	Students will be able to Obtain the Laplace Transforms, Inverse Laplace Transforms of combinations of standard functions using the properties of Laplace and Inverse Transforms. Obtain composition of relations and functions and inverses of functions Understand partial ordering relation Obtain algorithms for generating permutations and combinations Find Cauchy – Riemann equations to verify if a function is analytic Obtain the harmonic conjugate and orthogonal trajectory of given family. Define Conformal mapping and obtain the image under given standard transformation Define and obtain bilinear transformation and its fixed points.
ITC301.3	Students will be able to Apply Laplace and Inverse Laplace transform concepts to evaluate integrals, solve initial and boundary value problems. Apply Pigeon hole principle to solve problems Apply the concept of functions to recursive functions Use Bayes' theorem to obtain conditional probabilities Apply Bayes' theorem for information and Mutual Information

Course Name:	Logic Design
Course Code:	ITC302
Faculty Name:	Prasad Padalkar
Year	2 Sem III
CO Number	Course Outcome
ITC302.1	Ability to explain the different component of the analog circuit
ITC302.2	Ability to solve logical expression by choosing appropriate technique
ITC302.3	Analyse and design combinational circuit
ITC302.4	Analyse and Design Sequential Circuits
ITC302.5	Analyse real world problems convert into digital logic formulations using VHDL.

Course Name:	Data Structures & Analysis
Course Code:	ITC303
Faculty Name:	Sushree Satapathy
Year	2 Sem III
CO Number	Course Outcome
ITC303.1	Students will be able to define the ADT for different data structures
ITC303.2	Student will be able to demonstrate operations like searching, sorting, insertion, deletion, traversing mechanism, hashing etc. On various data structures
ITC303.3	Student will be able to identify appropriate data structure as applied to specified problem definition in different domains like DBMS, compiler construction etc.
ITC303.4	Students will be able to classify algorithms on the basis of their time complexity

Course Name:	Database Management System
Course Code:	ITC304
Faculty Name:	Aruna Khubalkar
Year	2 Sem III
CO Number	Course Outcome
ITC304.1	Understand the features of database management systems and Relational database.
ITC304.2	Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra.
ITC304.3	Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.
ITC304.4	Retrieve any type of information from a data base by deciding and # formulating complex queries in SQL.
ITC304.5	Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.
ITC304.6	Build indexing mechanisms for efficient retrieval of information from a database.

Course Name:	Principle of Communications
Course Code:	ITC305
Faculty Name:	Aparna Telgote
Year	2 Sem III
CO Number	Course Outcome
ITC305.1	Students will be able to define and describe the basic principles and techniques used in analog and digital communication.
ITC305.2	Students will be able to define and describe the basic principles and techniques used in analog and digital communication.
ITC305.3	Students will be able to apply their knowledge to solve problems and calculate communication system parameters like BW, Power, SNR etc.
ITC305.4	Students will be able to analyze, compare and evaluate the performance of different types of communication systems.

Course Name:	Digital Design Lab
Course Code:	ITL301
Faculty Name:	Prasad Padalkar
Year	2 Sem III
CO Number	Course Outcome
ITL301.1	Ability to solve logical expression by choosing appropriate technique
ITL301.2	Analyse and design combinational circuit
ITL301.3	Implement the Combinational / Sequential Circuit
ITL301.4	Analyse and Design Sequential Circuits
ITL301.5	Analyse real world problems convert into digital logic formulations using VHDL
ITL301.6	Implement the PLD / PLA circuit

Course Name:	Data Structures Lab
Course Code:	ITL302
Faculty Name:	Sushree Satapathy
Year	2 Sem III
CO Number	Course Outcome
ITL302.1	Student will be able to construct operations like searching, sorting, insertion, deletion, traversing mechanism, hashing etc. On various data structures
ITL302.2	Student will be able to choose appropriate data structure as applied to specified problem definition in different domains like DBMS, compiler construction etc.

Course Name:	SQL Lab
Course Code:	ITL303
Faculty Name:	Aruna Khubalkar
Year	2 Sem III
CO Number	Course Outcome
ITL303.1	Construct problem definition statements for real life applications and implement a database application for the same.
ITL303.2	Design conceptual models of a database using ER modeling for real life applications.
ITL303.3	Create and populate a RDBMS, using SQL.
ITL303.4	Write queries in SQL to retrieve any type of information from a data base.
ITL303.5	Analyse and apply concepts of normalization to design an optimal database.
ITL303.6	Implement indexes for a database using techniques like B or B+ trees.

Course Name:	Java Programming Lab
Course Code:	ITL304
Faculty Name:	Susantha K
Year	2 Sem III
CO Number	Course Outcome
ITL304.1	To understand how to design, implement, test, debug & document program that uses basic data types & computation simple I/O conditional and control Structures string handling and function
ITL304.2	To understand the importance of classes & objects along with constructors, arrays & vectors
ITL304.3	Discuss the principal of inheritance, interface & package and demonstrate through problem analysis assignments how they relate to the design of methods, abstract classes & interface & packages
ITL304.4	To understand importance of Multi-threading & different exception handling mechanism
ITL304.5	To learn experience of designing implementing testing and debugging graphical user interfaces in Java using Applet and AWT that respond to different users events.
ITL304.6	To understand Java Swings for designing GUI application based on MVC architecture.

TE IT			
Course Name:	Computer Graphics and Virtual Reality		
Course Code:	TEITCS01		
Faculty Name:	Vaishali Kavatkar		
Year	3	Sem	V

Course Outcome			
TEITCS01.1	Students will be able to define the basic concepts of computer graphics		
TEITCS01.2	Students will be able to differentiate the algorithm of scan conversion, curve generation, transformations, area filling, clipping		
TEITCS01.3	Students will be able to demonstrate their abilities to create animation using Morphing, Warping techniques		
TEITCS01.4	Students will be able to describe the concept of VR		
TEITCS01.5	Students will analyze the different models of VR		
TEITCS01.6	Student will be able to demonstrate visual object using VRML		

Course Name:	Operating Systems		
Course Code:	TEITCS02		
Faculty Name:	Sunantha K		
Year	3	Sem	V

Course Outcome			
TEITCS02.1	To understand the main components of an OS & their functions.		
TEITCS02.2	To understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS.		
TEITCS02.3	To understand the concepts and implementation of virtual memory.		
TEITCS02.4	To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC.		
TEITCS02.5	To study different file systems of OS like Linux, Windows and overview of OS for mobile & hand held devices.		

Course Name:	Microcontroller and Embedded Systems		
Course Code:	TEITCS03		
Faculty Name:	Janhavi Baikar		
Year	3	Sem	V

Course Outcome			
TEITCS03.1	Student will be able to comprehend basic structure & concepts in embedded systems		
TEITCS03.2	Student will be able to comprehend microcontroller architecture		
TEITCS03.3	Student will be able to program microcontroller.		
TEITCS03.4	Student will be able to design conceptual embedded system		
TEITCS03.5	The student will be able to understand the real time operating concepts		
TEITCS03.6	Student will be able to control the usage of shared resources		

Course Name:	Advanced Database Management Systems		
Course Code:	TEITCS04		
Faculty Name:	Aruna Khubalkar		
Year	3	Sem	V

Course Outcome			
TEITCS04.1	Construct queries in SQL, so as to retrieve and manipulate information in a database.		
TEITCS04.2	Design and develop full-fledged real life applications integrated with database systems.		
TEITCS04.3	Clearly describe how databases are actually stored and accessed, how transaction ACID properties are maintained, and how a database recovers from failures.		
TEITCS04.4	Analyze vital database systems and apply security controls to avoid any type of security incidents.		
TEITCS04.5	Recommend data systems for real-life scenarios for better resource management using Object based systems or Distributed Databases (advanced data systems)		
TEITCS04.6	Understand the importance of enterprise data and be able to organize data to perform analysis on the data and take strategic decisions.		

Course Name:	Open Source Technologies		
Course Code:	TEITCS05		
Faculty Name:	Nilesh Ghavate		
Year	3	Sem	V

Course Outcome			
TEITCS05.1	Students will be able to install Linux and they will be aware of Linux environment as Operating System		
TEITCS05.2	Students will be able to demonstrate shell scripting and programming skills in open source environment for system administrators		
TEITCS05.3	Students will be able to develop android applications		
TEITCS05.4	Students will be able to implement various services in Linux environment		
TEITCS05.5	Students will understand open source philosophy		
TEITCS05.6	Students will be able to develop and manage website		

Course Name:	Business Communication and Ethics		
Course Code:	TEITCS06		
Faculty Name:	Jeffy		
Year	3	Sem	V

Course Outcome			
TEITCS06.1	Identify issues related to society, health, safety and prepare a comprehensive report in a pre-specified format gathering information from primary and secondary sources using research tools and analyzing the collected information to recommend technological solution with due consideration to environment and society through a well defined process		
TEITCS06.2	Evaluate the social situation, identify business opportunities, and propose business offers in the prescribed format		
TEITCS06.3	Demonstrate conceptual awareness of interpersonal skills through the given activities		
TEITCS06.4	Plan and execute a meeting with the help of agenda		
TEITCS06.5	Identify and solve professional and ethical problems in the given sample business situations and demonstrate knowledge of table etiquette and a sense of presentability in terms of dressing and grooming.		
TEITCS06.6	Prepare their employability through resume, presentation skills, group discussions and mock interviews.		

BE IT			
Course Name:	Software Project Management		
Course Code:	BEITC701		
Faculty Name:	Mahalakshmi S.		
Year	4	Sem	VII
CO Number	Course Outcome		
BEITC701.1	Demonstrate an understanding of the relationships between the phases of the Project life cycle and SDLC, ITPM and the PMBOK process groups and knowledge area.		
BEITC701.2	Evaluate the need for various project implementation methods and the need for PM and ITPM.		
BEITC701.3	Apply the knowledge of the PMBOK areas to formulate the steps of preparing the deliverables of ITPM phases.		
BEITC701.4	Formulate the deliverables of ITPM phases.		
BEITC701.5	Practice team work and team spirit through the project work		
Course Name:	Cloud Computing		
Course Code:	BEITC702		
Faculty Name:	Tayyabi Sayyad		
Year	4	Sem	VII
CO Number	Course Outcome		
BEITC702.1	Students will be able to Differentiate cloud computing from other computing techniques.		
BEITC702.2	Students will be able to Differentiate various cloud computing services and deployment techniques.		
BEITC702.3	Students will be able to Handle open source cloud implementation and Administration.		
BEITC702.4	Students will be able to understand risks involved in cloud computing.		
BEITC702.5	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		
BEITC703.1	Students will be able to describe the building blocks of AI		
BEITC703.2	Student will be able to recognize an appropriate problem solving strategy		
BEITC703.3	Student will be able to analyze and formulate problem solving technique and algorithm		
BEITC703.4	Student will be able to build simple IS by using either Java or Prolog		
BEITC703.5	Student will be able to design / build a knowledge representation scheme		
BEITC703.6	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:	Prasad Padalkar		
Year	1	Sem	VII
CO Number	Course Outcome		
BEITC704.1	Student will be able to explain characteristics of communication channel, radio access techniques and multi user detection		
BEITC704.2	Student will be able to compare and contrast various technologies used to implement wireless network		
BEITC704.3	Student will relate the security weakness to the problems in making network secure.		
BEITC704.4	Students will be able to relate to the new trends in the mobile / wireless networking		
BEITC704.5	Student will be able to simulate the wireless network algorithms		
BEITC704.6	Student will be able to design a wireless network		
Course Name:	Elective – I Image Processing		
Course Code:	BEITC7051		
Faculty Name:	Anasha Shastri		
Year	4	Sem	VII
CO Number	Course Outcome		
BEITC7051.1	Students will be able to describe digital signal and image and its contents in spatial domain and frequency domain.		
BEITC7051.2	Student will be able to enhance the quality of the image in spatial and frequency domain.		
BEITC7051.3	Students will be able to select and implement suitable technique for image compression.		
BEITC7051.4	Student will be able to estimate parameters useful for image description and object recognition.		
BEITC7051.5	Student will be able to explain and present a case study on applications of image processing.		
Course Name:	Elective – I E-Commerce & E-Business		
Course Code:	BEITC7053		
Faculty Name:	Vaishali Kavathekar		
Year	4	Sem	VII
CO Number	Course Outcome		
BEITC7051.1	Students will be able to understand the technical aspect of E- Commerce and E- Business		
BEITC7051.2	Students will be able to analyze the Hardware and software technologies required for E-Commerce		
BEITC7051.3	Students will be able to gain the knowledge on payment system of E-Commerce		
BEITC7051.4	Students will be able to understand the concept of E-Marketing and E- Business strategies		
BEITC7051.5	Students will be able to develop E- business model with various functionalities.		
BEITC7051.6	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	Tayyabi Sayyad		
Year	4	Sem	VII
CO Number	Course Outcome		
BEITC707.1	Students will be able to select identify the problem in any domain and formulate the solution for it.		
BEITC707.2	Students will be able to do literature survey/visit industry/analyze current trends to solve the selected problem		
BEITC707.3	Students will be able to select the methodology to work towards achieving the solution.		
BEITC707.4	Students will be able to create a plan and budget for the achieving the desired outcome.		
BEITC707.5	Students will be able to write a good quality synopsis of the work selected.		