Department of Electronics & Computer Science

Course Number: ELC301 Course Name: Engineering Mathematics - III

Unique CO Number	Course Outcome (CO) Statement
ECC3011	Understand the concept of Laplace Transform of various functions
ECC3012	Apply the Laplace Transform technique to solve ordinary differential equations
ECC3013	Expand the periodic function by using Fourier Series problems.
ECC3014	Understand complex variable theory, applications of Harmonic Conjugate to get Orthogonal Trajectories and Analytics function
ECC3015	Compute eigen values & eigen vectors of a square matrix and relate their applicability in diagoalising a square matrix, finding a function of a square matrix
ECC3016	Choose the Vector differential operator to compute the Gradient, Divergence and Curl of a given Scalar point function/vector point function and find the Gradient, Divergence and Curl of sum and product of two functions and Apply Green's theorem to evaluate vector integral & to evaluate surface integral use Stoke's theorem

Course Number: ECC302 Course Name: Electronics Devices

Unique CO	Course Outcome (CO) Statement
Number	
ELC 3021	Describe the working and application of P-N junction diode
ELC 3022	Explain the working and characteristics of semiconductor devices
ELC 3023	Calculate the parameters of given circuit.
ELC 3024	Analyze the performance of BJT and FET (dc and ac analysis)
ELC 3025	Compare the circuit configuration of similar semiconductor devices
ELC 3026	Select suitable circuits for specific applications



Course Number: ECC303 Course Name: Digital Electronics

Unique CO	Course Outcome (CO) Statement
Number	
ECC3031	Recall the knowledge of mathematics, science and engineering to analyze
	and design digital communication systems.
ECC3032	
	Understand working of combinational circuits and applications.
ECC3033	Study the elements of sequential logic design, analysis and design of
	sequential circuits.
ECC3034	
	Understand various counters and shift registers.
ECC3035	Explain and describe various logic families and Programmable Logic
	Devices
ECC3036	
	Develop programs with Verilog hardware description languages

Course Number: ECC304 Course Name: Data Structure and Algorithm

Unique CO	Course Outcome (CO) Statement
Number	
ECC3041	
	Explain basics of data structure, types, and its algorithms
ECC3042	
	Demonstrate the working of various Linear data structures
ECC3043	
	Represent and implement various nonlinear data structure
ECC3044	
	Select appropriate sorting and searching technique for a given problem.
ECC3045	Develop solutions for real world problems by selecting appropriate data
	structure and algorithms.
ECC3046	
	Analyze the data structure to solve the real-world problem

Course Number: ECC305 Course Name: Database Management System

Unique CO	Course Outcome (CO) Statement
ECC3051	Recognize the need of database management system.
ECC3052	Design ER and EER diagram for real life applications
ECC3053	Construct relational model and write relational algebra queries.
ECC3054	Formulate SQL queries
ECC 3055	Apply the concept of normalization to relational database design.
ECC 3056	Describe the concepts of transaction, concurrency and recovery



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Course Number-ECL301 Course Name: Electronics Devices

Unique CO	Course Outcome (CO) Statement	
Number		
ECL3011	Analyze the characteristics of semiconductor devices	
ECL3012	Analyze application of pn junction devices	
ECL3013	Design rectifier and filter ciruits	
ECL3014	Analyze BJT circuits	
ECL3015	Analyze FET based circuits	
ECL3016	Design basic electronic circuits	

Course Number: ECL302 Course Name: Digital Electronics lab

Unique CO	Course Outcome (CO) Statement
Number	
ECL3021	Use the design steps of combinational circuits.
ECL3022	Use the design steps of sequential circuits.
ECL3023	Implement combinational and sequential circuits.
ECL3024	Analyze combinational and sequential circuits.
ECL3025	Simulate digital circuits.
ECL3026	Test and debug the simulation.

Course Number: ECL303 Course Name: Data Structures and Algorithms Lab

Unique CO	Course Outcome (CO) Statement
Number	
ECL3031	Implement linear data structures & will be able to handle operations like
	insertion, deletion, searching and
ECL3032	Implement nonlinear data structures & will be able to handle operations
	like insertion, deletion, searching and traversing on them.
ECL3033	
	Select appropriate data structure and apply it in various problem domains.
ECL3034	Select appropriate searching techniques for given problems.
ECL3035	
	Select appropriate sorting techniques for given problems.
ECL3036	Illustrate and examine the methods of linked lists, stacks, queues, trees,
	and graphs to various real time problems.



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Course Number: ECL304 Course Name: Database Management Systems lab

Unique CO Number	Course Outcome (CO) Statement
ECL3051	Design ER /EER diagram and convert to relational model for the realworld application.
ECL3052	Apply DDL, DML, DCL and TCL commands.
ECL3053	Write simple and complex queries
ECL3054	Use PL/SQL Constructs.
ECL3055	Demonstrate the concept of concurrent transactions execution and frontend-backend connectivity

Course Number: ECM301 Course Name: Mini Project-I A

Unique CO	Course Outcome (CO) Statement
Number	
ECM3011	Identify problems based on research needs
ECM3012	Apply Knowledge and skill to solve societal problems in a group.
ECM3013	Draw the proper inferences from available results through theoretical/experimental/simulations.
ECM3014	Analyze the impact of solutions in societal and environmental context for sustainable development.
ECM3015	Use standard norms of engineering practices
ECM3016	Excel in written and oral communication.

Course name- Skill-base Lab -OOPM:(C++ and Java)

Unique CO	Course Outcome (CO) Statement
Number	
EXL3631	Recall fundamental programming constructs to resolve problems.
EXL3632	Summarize the concept of class, object and packages.
EXL3633	Demonstrate the use of strings, arrays and methods
EXL3634	Analyse OOPM feature of inheritance and interface
EXL3635	Recommend requirement of exception handling and multithreading.
EXL3636	Generate applets and develop GUI based application.