	Dr D Y Patil Pratishthan's **Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune**
Course Outcomes	
Syllabus: SE_Sem-II(2015 Pattern)	
Department : Computer Engineering	

Subject:	**Engineering Mathematics III**	**Subject Code:**	**207003**
CO1	211.1	Solve higher order linear differential equation using appropriate techniques for modeling and analyzing electrical circuits.	
CO2	211.2	Evaluate Fourier Transform, Z-Transform and apply it to solve integral equations, difference equations.	
CO3	211.3	Apply statistical methods like correlation and regression for data analysis and predictions	
CO4	211.4	Apply probability and probability distributions theory for data analysis, sampling and testing.	
CO5	211.5	Analyze the vector fields by Performing vector differentiation and integration and apply to compute line, surface and volume integral.	
CO6	211.6	Analyze conformal mappings, transformations and perform contour integration of complex functions.	

Subject:	**Computer Graphics**	**Subject Code:**	**210251**
CO1	212.1	Use basic terminologies of computer graphics and various drawing algorithms.	
CO2	212.2	Select various clipping ,polygon fill and curve generation algorithms on graphical objects	
CO3	212.3	Interpret mathematics and logic to develop graphical programs for elementary graphical operations	
CO4	212.4	Develop animation programs using associated graphics libraries, color models and tools.	
CO5	212.5	Differentiate various illumination models and surface rendering methods.	

CO6	212.6	Demonstrate curves and fractal generations.

Subject:	**Advanced Data Structures**	**Subject Code:**	**210252**
CO1	213.1	Demonstrate non-linear data structures for solving problems of various domain.	
CO2	213.2	Design and specifythe operations of a nonlinear-based abstract data type and implement them in a high-level programming language	
CO3	213.3	Interpret and articulate the complexity goals and benefits of a good hashing scheme for real-world applications.	
CO4	213.4	Analyze the algorithmic solutions for resource requirements and optimization	
CO5	213.5	Select efficient indexing methods and multiway search techniques to store and maintain data.	
CO6	213.6	Implement appropriate functionalities confined to the secondary storage.	

Subject:	**Microprocessor**	**Subject Code:**	**210253**
CO1	214.1	Understand architecture and Programmers model of processor and exhibit assembly language programming skill.	
CO2	214.2	Identify system level features and understand memory management techniques.	
CO3	214.3	Classify different protection mechanism in applications and learn multitasking.	
CO4	214.4	Use interrupt and Exception mechanism of advanced processor	
CO5	214.5	Identify and analyse tools and techniques to debug microprocessor based system.	

CO6	214.6	Apply 80386 and co processor signals to construct bus cycles

Subject:	**Principles of Programming Languages**	**Subject Code:**	**210254**
CO1	215.1	Use basic principles of programming languages	
CO2	215.2	Develop a program with data representation and computations	
CO3	215.3	Develop a simple program using basic concepts of functional and logical programming paradigm	
CO4	215.4	Develop programs using object oriented programming language - JAVA	
CO5	215.5	Develop applications using inheritance encapsulations and polymorphism	
CO6	215.6	Demonstrate Exception Handling, Applet for robust application development	

Subject:	**Computer Graphics Lab**	**Subject Code:**	**210255**
CO1	216.1	Design graphical patterns using various drawing algorithms	
CO2	216.2	Apply mathematics to implement transformations on 2D & 3D objects.	
CO3	216.3	Select various clipping ,polygon fill and curve generation algorithms on graphical objects	
CO4	216.4	Design graphical objects and simulate animation using associated graphics libraries and tools.	

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Department : Computer Engineering

Subject:	**Advanced Data Structures Lab**	**Subject Code:**	**210256**
CO1	217.1	Apply and analyze non linear data structures to solve real world complex problems.	
CO2	217.2	Select most appropriate data structures and apply algorithms for graphical solutions of the problems.	
CO3	217.3	Develop the ADT/libraries, hash tables and dictionary to design algorithms for a specific problem.	
CO4	217.4	Analyze the efficiency of most appropriate data structure for creating efficient solutions for engineering design situations.	

Subject:	**Microprocessor Lab**	**Subject Code:**	**210257**
CO1	218.1	To understand and apply different directives	
CO2	218.2	To interpret and apply various addressing modes and instruction set to implement assmbly language programme	
CO3	218.3	To apply logic for code conversion	
CO4	218.4	To analyze and apply logic to demonstrate processor mode	