	Dr D Y Patil Pratishthan's **Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune**
Course Outcomes	
Syllabus: SE_Sem-II(2019 Pattern)	
Department : Computer Engineering	

Subject:	**Engineering Mathematics III**	**Subject Code:**	**207003**
CO1	211.1	Solve Linear differential equations, essential in modelling and design of computer-based systems.	
CO2	211.2	Apply concept of Fourier transform and Z-transform and its applications to continuous and discrete systems and image processing.	
CO3	211.3	Apply Statistical methods like correlation and regression analysis and probability theory for data analysis and predictions in machine learning.	
CO4	211.4	Solve Algebraic and Transcendental equations and System of linear equations using numerical techniques.	
CO5	211.5	Obtain Interpolating polynomials, numerical differentiation and integration, numerical solutions of ordinary differential equations used in modern scientific computing.	

Subject:	**Data Structures and Algorithms**	**Subject Code:**	**210252**
CO1	212.1	To identify & articulate the complexity goals and benefits of a good hashing scheme for real world applications	
CO2	212.2	To apply non-linear data structures for solving problems of various domain.	
CO3	212.3	To design and specify the operations of a nonlinear-based abstract data type and implement them in a high-level programming language.	
CO4	212.4	To analyze the algorithmic solutions for resource requirements and optimization	
CO5	212.5	To use efficient indexing methods and multiway search techniques to store and	

		maintain data.
CO6	212.6	To use appropriate modern tools to understand and analyze the functionalities confined to the secondary storage.

Subject:	**Software Engineering**	**Subject Code:**	**210253**
CO1	213.1	Analyze software requirements and formulate design solution for software.	
CO2	213.2	Design applicable solutions in one or more application domains using software engineering approaches that integrate ethical, social, legal and economic concerns.	
CO3	213.3	Apply new software models, techniques and technologies to bring out innovative and novelistic solutions for the growth of the society in all aspects and evolving into their continuous professional development.	
CO4	213.4	Model and design User interface and component-level.	
CO5	213.5	Identify and handle risk management and software configuration management.	
CO6	213.6	Utilize knowledge of software testing approaches, approaches to verification and validation.	

Subject:	**Microprocessor**	**Subject Code:**	**210254**
CO1	214.1	Understand architecture and Programmers model of processor and exhibit assembly language programming skill.	
CO2	214.2	Apply 80386 and co processor signals to construct bus cycles	

CO3	214.3	Understand memory management mechanism in 80386
CO4	214.4	Illustrate system level advanced features of 80386
CO5	214.5	Compare & Contrast different processor modes
CO6	214.6	Differentiate between microcontroller & Microprocessor

Subject:	**Principles of Programming Languages**	**Subject Code:**	**210255**
CO1	215.1	Make use of basic principles of programming languages.	
CO2	215.2	Develop a program with Data representation and Computations.	
CO3	215.3	Develop programs using Object Oriented Programming language : Java.	
CO4	215.4	Develop application using inheritance, encapsulation, and polymorphism.	
CO5	215.5	Demonstrate Multithreading for robust application development.	
CO6	215.6	Develop a simple program using basic concepts of Functional and Logical programming paradigm	

Subject:	**Data Structures and Algorithms Lab**	**Subject Code:**	**210256**
CO1	216.1	Understand the ADT/libraries, hash tables and dictionary to design algorithms for a specific problem.	

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CO2	216.2	Choose most appropriate data structures and apply algorithms for graphical solutions of the problems.
CO3	216.3	Apply and analyze non linear data structures to solve real world complex problems.
CO4	216.4	Apply and analyze algorithm design techniques for indexing, sorting, multi-way searching, file organization and compression.

Subject:	**Microprocessor Lab**	**Subject Code:**	**210257**
CO1	217.1	Students will be able to understand and apply different directives	
CO2	217.2	Students will be able to interpret and apply various addressing modes and instruction set to implement assembly language program.	
CO3	217.3	Students will be able to apply logic for code conversion	
CO4	217.4	Students will be able to analyze and apply logic to demonstrate processor mode	

Subject:	**Project Based Learning II**	**Subject Code:**	**210258**
CO1	218.1	Identify the real life problem from societal need point of view	
CO2	218.2	Choose and compare alternative approaches to select most feasible one	
CO3	218.3	Analyze and synthesize the identified problem from technological perspective	

CO4	218.4	Design the reliable and scalable solution to meet challenges

Subject:	**Code of Conduct**	**Subject Code:**	**210259**
CO1	219.1	Understand the basic perception of profession, various moral and social issues, industrial standards, code of ethics and role of professional ethics in engineering field	
CO2	219.2	Aware of professional rights and responsibilities of an engineer, responsibilities of an engineer for safety and risk benefit analysis.	
CO3	219.3	Understand the impact of the professional Engineering solutions in societal and Environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	
CO4	219.4	Acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.	