

Santosh N Darade Polytechnic

Department of Computer Engineering

Course Outcomes

Semester – 1 (CO1I)		
Course	CO's	Course Outcomes
(22101) English <i>C101</i>	C101.1	Formulate grammatically correct sentences.
	C101.2	Summarize comprehensive passages.
	C101.3	Composes dialogues & paragraphs for different situations.
	C101.4	Use relevant words as per contexts.
	C101.5	Deliver; prepare speeches to express ideas, thoughts, and emotions.
(22102) Basic Science (PHY & CHY) <i>C102</i>	C102.1	Estimate error in the measurement of physical quantities.
	C102.2	Apply the principle of electricity and magnetism to solve Engg. problems
	C102.3	Use the basic principles of heat & optics in related Engg. Applications.
	C102.4	Apply the catalysis process in industries.
	C102.5	Use corrosion prevention measures in industries.
	C102.6	Use relevant Engg. Materials in industries.
(22103) Basic Mathematics <i>C103</i>	C103.1	Apply the concept of algebra to solve Engg. related problems
	C103.2	Utilize basic concepts of trigonometry to solve elementary Engg. Problems.
	C103.3	Solve basic Engg. Problems under given conditions of straight lines.
	C103.4	Solve the problems based on measurement of regular closed figures & regular solids.
	C103.5	Use basic concepts of statistics to solve Engg. related problems
(22001) Fundamentals of ICT <i>C104</i>	C104.1	Use computer systems & its peripherals.
	C104.2	Prepare business documents using word processing tools.
	C104.3	Interpret data & represents it graphically using spread sheets.
	C104.4	Prepare professional presentations
	C104.5	Use different types of web browsers.
(22002) Engineering Graphics <i>C105</i>	C105.1	Draw geometric figures & engineering curves.
	C105.2	Draw a view of given object using principles of orthographic projection.
	C105.3	Draw isometric view of given components or from orthographic projection.
	C105.4	Use drawing codes conventions & symbols as per IS SP/46 in Engg. Drawing.
	C105.5	Draw free hand sketches of given engineering components.
(22004) Workshop Practice <i>C106</i>	C106.1	Select tools & machineries according to jobs.
	C106.2	Sue hand tools in different shops for performing different operations.
	C106.3	Operate equipment & machinery in different shops.
	C106.4	Prepare job according to drawing.
	C106.5	Maintain workshop related tools equipments & machinery.

Jagdamba Education Society's
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Course Outcomes

Semester – 2 (CO2I)

Course	CO's	Course Outcomes
(22215) EEC C107	C107.1	Use principle of magnetic circuit
	C107.2	Use of single phase AC supply for electrical and electronics equipment
	C107.3	Use of three phase AC supply for industry equipment and machines
	C107.4	Connect the transformer and DC motors
	C107.5	Use relevant protective device/ switch gear for different requirement
(22224) Applied Mathematics C108	C108.1	Calculate the equation of tangent maxima , minima ,radius of curvature of differentiation
	C108.2	Solve given problem of integration using suitable methods
	C108.3	Apply the concepts of integration to find area and volume
	C108.4	Solve differential equation of first order and first degree using suitable method
	C108.5	Apply the concepts of numerical method in computer programming language
(22225) Basic Electronics C109	C109.1	Identify electronic component in electric circuit
	C109.2	Use diode in different application
	C109.3	Interpret working of junction transistor in electronic circuit
	C109.4	Use sensor and transducer
	C109.5	Identify electronic component in electric circuit
(22226) Programming in 'C' C110	C110.1	Develop flowchart and algorithm to solve problems logically.
	C110.2	Write simple 'C' program using arithmetic expressions.
	C110.3	Develop 'C' programs using control structure.
	C110.4	Develop 'C' programs using arrays and structures.
	C110.5	Develop/Use functions in C programs for modular programming approach.
	C110.6	Develop 'C' programs using pointers.
(22009) BCC C111	C111.1	Communication effectively by avoiding barriers in various formal and informal
	C111.2	Communicate skillfully using non verbal methods of communication
	C111.3	Give presentation by using audio visual aids
	C111.4	Write reports using correct guidelines
	C111.5	Compose emails and business letters
	C111.6	

(22013) Computer Peripherals And Haraware Maintanance C112	C112.1	Identify different types of computer system.
	C112.2	Troubleshoot common motherboard problem.
	C112.3	Select processor for required for relevant system.
	C112.4	Partition or format hard disk drive.
	C112.5	Troubleshoot peripherals and network.
	C112.6	Test power supply
(22014) Web Page Designing with HTML C113	C113.1	Use block level formatting tags to present content on web page.
	C113.2	Use text level formatting tags to present content on web page.
	C113.3	Apply hyper linking on web page.
	C113.4	Organize the content using table and frames.
	C113.5	Apply presentation schemes on content using css.
	C113.6	Publish website on Internet or Intranet.

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(22316) Object Oriented Programming language C201	C201.1	Develop C++ programs to solve problems using Procedure Oriented Approach.
	C201.2	Develop C++ programs using classes and objects.
	C201.3	Implements Inheritance in C++ program.
	C201.4	Use Polymorphism in C++ program.
	C201.5	Develop C++ programs to perform file operations.
	C201.6	
(22317) Data Structure Using 'C' C202	C202.1	Perform the basics operation on array
	C202.2	Applied different searching / sorting techniques
	C202.3	Implement basic operation on stack and queue
	C202.4	Implement basic operation on linked list
	C202.5	Implement the program to create and travers tree to solve problem
	C202.6	
(22318) Computer Graphics C203	C203.1	Manipulate visual and geometric information of image
	C203.2	Implement the standard algorithm to draw various graphics object using c program
	C203.3	Develop program for 2D and 3D transformation
	C203.4	Use a projection to visualize object on view plane
	C203.5	Implement varies clipping algorithm
	C203.6	Develop a program to create curve using algorithm
(22319) Database Management System C204	C204.1	Design Normalized Database on given data.
	C204.2	Create and manage database using SQL command.
	C204.3	Write PL/SQL code for given database.
	C204.4	Apply trigger on database also create procedure and function according to condition.
	C204.5	Apply security and confidentiality on given database.
(22320) Digital Techniques C205	C205.1	Use the number system and codes for interpreting working of digital system
	C205.2	Use of Boolean expression to realize logic circuit
	C205.3	Build simple combinational circuits
	C205.4	Build simple sequential circuits
	C205.5	Test data converts and PLD's in digital electronics system
	C205.6	

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Semester – Semester – 4 (CO4I)		
(22412) Java Programming C207	C207.1	Develop programs using Object Oriented methodology in Java.
	C207.2	Apply concept of inheritance for code reusability.
	C207.3	Develop Programs Using Multithreading.
	C207.4	Implement Exception Handling.
	C207.5	Develop programs for graphics and applets
	C207.6	Develop programs for handling I/O and file streams.
(22413) Software Engineering C208	C208.1	Select the suitable software process for software development
	C208.2	Prepaid software requirement specification
	C208.3	Use software modeling to create data design
	C208.4	Estimate size and cost of software product
	C208.5	Apply project management and quality assurance principle software development
	C208.6	
(22414) Data Communication & Computer Network C209	C209.1	Analyze the functioning of data communication and computer network.
	C209.2	Select relevant transmission media and switching technique as per need.
	C209.3	Analyze the transmission errors with respect to IEEE standards.
	C209.4	Configure various networking devices.
	C209.5	Configure different TCP/IP Services.
	C209.6	Analyze the functioning of data communication and computer network.
(22415) Microprocessor C210	C210.1	Analyze the functional block of 8086 microprocessor.
	C210.2	Write assembly language program for the given program.
	C210.3	Use instruction for different addressing mode.
	C210.4	Develop an assembly language program using assembler.
	C210.5	Develop Assembly language program using procedure, macro, and modular programming.
(22034) GAD C211	C211.1	Use visual studio ide to design application
	C211.2	Develop GUI application using form control and its events
	C211.3	Apply OOP concepts In GUI Application
	C211.4	Use data Access controls to store data database and retrieve it
	C211.5	Use data binding in GUI application

Santosh N Darade Polytechnic**Department of Computer Engineering****Course Outcomes****Semester – 5 (CO5I)**

(22447) Environmental Studies C302	C302.1	Develop Public awareness about environment .
	C302.2	Select alternative energy resource for engineering practice
	C302.3	Apply technique to reduce environmental pollution
	C302.4	Develop Public awareness about environment .
	C302.5	Convert ecosystem and biodiversity
(22516) Operating System C303	C303.1	Install operating system and configure it. Use operating system tools to perform various functions.
	C303.2	Execute process commands for performing project management operations.
	C303.3	Apply scheduling algorithm to calculate turn around time and average waiting time
	C303.4	Apply efficiency of different memory management techniques.
	C303.5	Install operating system and configure it.
	C303.6	Use operating system tools to perform various functions.
(22517) Advanced Java Programming C304	C304.1	Develop programs using GUI Framework(AWT & Swing).
	C304.2	Handle events of AWT & SwingdComponets.
	C304.3	Develop programs to handles events in Java Programming.
	C304.4	Develop programs using networking concepts.
	C304.5	Develop programs using Database.
	C304.6	Develop programs using GUI Framework(AWT & Swing). Handle events of AWT & SwingdComponets.
(22518) Software Testing C305	C305.1	Apply various software testing method
	C305.2	Prepare test case for different type and level testing
	C305.3	Prepare test plan for an application
	C305.4	Identify bugs to create defect report of given application
	C305.5	Test software for performance measures using automated testing tool
	C305.6	
(22519)	C306.1	Create interactive web pages using program flow control structure
	C306.2	Implement Arrays and function in Javascript

Cascading Style Sheets (Elective I) C306	C306.3	Create event based web forms using Javascript
	C306.4	Use JavaScript for handling cookies
	C306.5	Create interactive webpage using regular expressions for validations
	C306.6	Create Menus and navigation in web pages
(22058) Capstone Project- Planning C308	C308.1	Write problem specification in existing system related to occupation Select collect and use required information to solve identify problem
	C308.2	Logically choose relevant possible solution Consider ethical issue related project
	C308.3	Assess impact of project on society
	C308.4	Write problem specification in existing system related to occupation
	C308.5	Select collect and use required information to solve identify problem
	C308.6	

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Semester – 6 (CO6I)

(22509) Management C310	C310.1	Use basic management principle to execute daily activities
	C310.2	Use principle of planning and organizing for accomplishment of task
	C310.3	Use planning of directing controlling for implementing a plan
	C310.4	Apply principle of safety management in all activities
	C310.5	Understand various provision of industrial acts
(22616) Python Programming C311	C311.1	Write and execute simple python program.
	C311.2	Write python program using arithmetic expression and control structure.
	C311.3	Develop python program using list, tuple, dictionary.
	C311.4	Develop/use function in python programs for modular programming approach.
	C311.5	Develop python program using file input/output operation.
	C311.6	Write python code using Classes and Objects.
(22617) Mobile Application And Development C312	C312.1	Interpret features of Android operating system
	C312.2	Configure Android environment and development tools
	C312.3	Develop rich user Interfaces by using layouts and controls
	C312.4	Use User Interface components for android application development
	C312.5	Create Android application using database
	C312.6	Publish Android applications
(22618) Emerging Trends in IOT C313	C313.1	Describe the artificial intelligence , machine learning and deep learning
	C313.2	Interpret the IoT concepts
	C313.3	Compare model of digital forensic investigation
	C313.4	Describe evidence handling procedure
	C313.5	Describe ethical hacking process
(22620) Network Information & Security (Elective- I) C314	C314.1	Identify the risk related to computer security and information hazards in various situation
	C314.2	Apply user identification and authentication method
	C314.3	Apply cryptography algorithm and protocol maintain computer security
	C314.4	Apply measure to prevent attacks on network using firewall
	C314.5	Maintain secure network and describe information security compliance standards
	C314.6	
(22032) Entrepreneurship Development	C315.1	Identify your entrepreneur traits
	C315.2	Identify the business opportunity that suits you
	C315.3	Use the support systems to zero down to business idea

C315	C315.4	Develop comprehensive business plan
	C315.5	Prepare plan to manage enterprise effectively
	C315.6	
(22060) Capstone Project- Execution & Report Writing C318	C318.1	Implement planed activity individually and or team
	C318.2	Select collect and use required information to solve identify problem Take appropriate decision on Collected and information
	C318.3	Ensure quality in product
	C318.4	Incorporate energy and environment conservation principle
	C318.5	Consider ethical issue related project
	C318.6	Assess impact of project on society Implement planed activity individually and or team