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MET's Institute of Technology, Polytechnic

Department of Computer Engineering

Course Outcomes – 'I' Scheme by MSBTE

Course	Course Code	Course Outcomes
		First Semester
	C101.1	Use computer system and its peripherals.
Fundamentals	C101.2	Prepare business document using word processing tool.
	C101.3	Interpret data and represent it graphically using spreadsheet.
01101-0101	C101.4	Prepare professional presentations.
	C101.5	Use different types of web browsers.
	C102.1	Draw regular geometrical figures.
Engineering Graphics –	C102.2	Use drawing codes, conventions and symbols as per IS SP-46 in engineering drawing
	C102.3	Draw the views of given object using principles of orthographic projection.
C102	C102.4	Draw isometric views of given component or from orthographic projections.
	C102.5	Draw free hand sketches of given engineering elements.
	C102.6	Use computer aided drafting approach to create engineering drawings
	C106.1	Use electrical tools, instruments, devices and equipment for basic level of maintenance of Computer and peripherals.
Workshop	C106.2	Identify active and passive electronic components.
Practice - C106	C106.3	Undertake basic level maintenance of a PC.
	C106.4	Use different kinds of printers and scanners.
	C106.5	Identify the layout of wired and wireless LAN environment.
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	C104.1	Formulate grammatically correct sentences.
	C104.2	Summarise comprehension passages
English –C104	C104.3	Compose dialogues and paragraphs for different situations.
	C104.4	Use relevant words as per context.
	C104.5	Deliver prepared speeches to express ideas, thoughts and emotions.
	C105.1	Estimate errors in the measurement of physical quantities.
Basic Physics & Basic Chemistry	C105.2	Apply the principles of electricity and magnetism to solve engineering problems.
	C105.3	Use the basic principles of heat and optics in related engineering applications.
-0105	C105.4	Apply the catalysis process in industries.
	C105.5	Use corrosion preventive measures in industry.
	C105.6	Use relevant engineering materials in industry.

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		Developing the vocabulary.
Basic Mathematics - C106	C106.2	Utilize basic concepts of trigonometry to solve elementary engineering problems.
	C106.3	Solve basic engineering problems under given conditions of straight lines.
	C106.4	To Solve the problems based on measurement of regular closed figures and regular solids
	C106.5	Use basic concepts of statistics to solve engineering related problems.

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Course	Course Code	Course Outcomes	
Second Semester			
Business Communication Using	C201.1	Communicate effectively by avoiding barriers in various formal and informal.	
	C201.2	Communicate skillfully using non-verbal methods of communication.	
	C201.3	Give presentations by using audio-visual aids.	
Computers-	C201.4	Write reports using correct guidelines.	
2201	C201.5	Compose e-mail and formal business letters.	
Computer	C202.1	Identify different types of computer systems.	
Peripheral and	C202.2	Troubleshoot common motherboard problems	
Hardware	C202.3	Select processors required for relevant systems.	
Maintenance-	C202.4	Partition/format hard disk drives.	
C202	C202.5	Troubleshoot peripherals and networks.	
	C203.1	Use block level formatting tags to present content on web page.	
	C203.2	Use text level formatting tags to present content on web page.	
Web page	C203.3	Apply hyper linking on web page.	
HTMI_C203	C203.4	Organize the content using table and frames.	
	C203.5	Apply presentation schemes on content using CSS.	
	C203.6	Publish websites on Internet or Intranet.	
	C204.1	Use principles of magnetic circuits.	
Elements of	C204.2	Use single phase AC supply for electrical and electronics equipment.	
Electrical	C204.3	Use three phase AC supply for industrial equipment and machines	
Engineering -	C204.4	Connect transformers and DC motors for specific requirements	
C204	C204.5	Use FHP motors for diversified applications.	
	C204.6	Use relevant protective devices/switchgear for different requirements.	
	C205.1	Calculate the equation of tangent, maxima, minima, radius of curvature by differentiation.	
Applied	C205.2	Solve the given problems of integration using suitable methods.	
Mathematics-	C205.3	Apply the concept of integration to find area and volume.	
C205	C205.4	Solve the differential equation of first order and first degree using suitable methods.	
	C205.5	Apply the concepts of numerical methods in computer programming languages.	
	C206.1	Identify electronic components in electronic circuits.	
Basic	C206.2	Use diodes in different applications .	
Electronics- C206	C206.3	Interpret the working of junction transistor in the electronic circuits.	
	C206.4	Interpret the working of unipolar devices in the electronic circuits.	
	C206.5	Use sensors and transducers.	

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Course	Course	Course Outcomes
	Coue	Third Semester
Object	C301.1	Develop a C++ programs to solve problems using procedure oriented approach.
Oriented	C301.2	Develop a C++ programs using classes and objects.
Programming	C301.3	Implement inheritance in C++ program.
using C++-C301	C301.4	Use Polymorphism in C++ program.
	C301.5	Develop a C++ programs to perform file operation.
	C302.1	Perform basic operations on arrays.
	C302.2	Apply different searching and sorting techniques.
Data Structures using 'C' - C302	C302.3	Implement basic operations on stack and queue using array implementation.
	C302.4	Implement basic operations on Linked List.
	C302.5	Implement program to create and traverse tree to solve problems.
	C303.1	Manipulate visual and geometric information of images.
	C303.2	Implement standard algorithms to draw various graphics objects using C program.
Computer	C303.3	Develop programs for 2-D and 3-D Transformations.
Graphics - C303	C303.4	Use projections to visualize objects on view plane.
	C303.5	Implement various clipping algorithms.
	C303.6	Develop programs to create curves using algorithms.
	C304.1	Design Normalized Database on Given Data
Databasa	C304.2	Create and Manage Database Using Given data
Management	C304.3	Write PL/SQL code for given database
System - C304	C304.4	Apply Triggers on Database also create procedure and function according to given condition.
	C304.5	Apply Security and confidentiality on given Database.
	C305.1	Use Number System and codes for interpreting working of Digital System.
Digital	C305.2	Use Boolean Expression to realize logic circuit.
Techniques-	C305.3	Build Simple Combinational circuit.
C305	C305.4	Build Simple Sequential circuit.
	C305.5	Test Data Converters and PLDs in digital electronics systems.

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Course	Course Code	Course Outcomes
		Fifth Semester
	C501.1	Develop public awareness about environment.
	C501.2	Select alternative energy Resources for engineering practice.
Environmental	C501.3	Conserve. Ecosystem & biodiversity.
Studies-C501	C501.4	Apply techniques to reduce environmental pollution.
	C501.5	Manage social issues and Environmental Ethics as lifelong learning.
	C502.1	Install Operating System and configure it.
	C502.2	Use operating system tools to perform various functions.
Operating System -C502	C502.3	Execute process commands for performing process management operations.
	C502.4	apply scheduling algorithms to calculate turn-around time and average waiting time.
	C502.5	calculate efficiency of different memory management techniques.
	C502.6	Apply file management techniques.
	C503.1	Develop programs using GUI Framework (AWT and Swing).
Advanced lave	C503.2	Handle events of AWT and Swing components.
Programming -	C503.3	Develop programs to handle events in Java programming.
C503	C503.4	Develop java programs using networking concepts.
	C503.5	Develop programs using database.
	C503.6	Develop programs using Servlets.
	C504.1	Apply various Software Testing methods.
Software	C504.2	Prepare Test cases for different types and levels of testing.
Testing - C504	C504.3	Prepare Test plan for an application.
	C504.4	Identify bugs to create defect report of given application.
	C504.5	Test softwares for performance measures using automated testing tools.
Client Side	C505.1	Create interactive web pages using program flow control structure.
Scrinting	C505.2	Implement array and functions in java script.
Language	C505.3	Create event based web forms using java script.
(Elective)-	C505.4	Use java script for handling cookies.
C505	C505.5	Create interactive web page using regular expression for validations.
	C505.6	Create menu and navigations in web page
Advanced	C506.1	Implement Network Layer Protocols.
Computer	C506.2	Configure IPv6 network.
Network	C506.3	Choose routing protocol in given network situation.
(Elective) -	C506.4	Implement different Transport Layer Protocols.
C506	C506.5	Configure various Application Layer Protocols.

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Advanced	C507.1	Differentiate different database architectures.
Database	C507.2	Use Object Oriented and Advanced XML queries on Database.
Management Systems	C507.3	Manipulate data using MongoDB Commands.
(Elective) -	C507.4	Use Data Mining and Data Warehousing concepts.
C507	C507.5	Use Big Data Concepts.
Industrial Training - C508	C508.1	Communicate effectively (verbal as well as written) the work carried out.
	C508.2	Prepare and present the report of the work carried out.
	C508.3	Exercise time management and safety in the work environment.
	C508.4	Working in a team.
	C508.5	Demonstrate various quality assurance.
	C508.6	Exhibit the work carried out.
	C509.1	Write the problem/task specification in existing systems related to the occupation.
	C509.2	Select, collect and use required information/knowledge to solve the problem/complete the task.
Capstone	C509.3	Logically choose relevant possible solution(s).
Project Planning -	C509.4	Consider the ethical issues related to the project (if there are any).
C509	C509.5	Assess the impact of the project on society (if there are any).
	C509.6	Prepare 'project proposals' with action plan and time duration scientifically before beginning of project.
	C509.7	Communicate effectively and confidently as a member and leader of team.

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Network and Information Security	C607.1	Identify risks related to Computer Security and Information hazard in various situations.
	C607.2	Apply user identification and authentication methods.
	C607.3	Apply cryptographic algorithms and protocols to maintain Computer Security.
(Elective) - C607	C607.4	Apply measures to prevent attacks on network using firewall.
	C607.5	Maintain secured networks and describe Information Security Compliance Standards.
	C608.1	Establish scope and necessity of Data Mining for various applications.
Data Warehousing and Mining Techniques	C608.2	Establish scope and necessity of Data warehouse for various applications.
	C608.3	Use concept of data mining components and techniques in designing data mining systems.
(Elective) - C608	C608.4	Use data mining tools for different applications.
	C608.5	Apply basic Statistical calculations on Data.
	C609.1	Implement or plan the activity individually and/or as a team.
	C609.2	Select collect and use required information/knowledge to solve the identified problem.
	C609.3	Take the appropriate decision based on collected and analyzed information.
Capstone Project	C609.4	Ensure quality in product.
Report Writing -	C609.5	Incorporate Energy and environment conservation projects.
C609	C609.6	Consider the ethical issues related to project.
	C609.7	Access the impact of project on society.
	C609.8	Communicate effectively and confidently as a member and leader of a team.
	C609.9	Prepare project report after performing due plagiarism check using appropriate tools.
Emerging Trend	C605.1	Describe machine learning and data concepts.
Information	C605.2	Interpret IOT Concepts.
Technology -	C605.3	Describe Block chain technology.
C605	C605.4	Describe Digital Forensic and Evidence Handling procedures.
(Revised in	C605.5	Describe Ethical Hacking process.
AY:22-23)	C605.6	Detect Network, Operating System, and application vulnerabilities