



KLS Vishwanathrao Deshpande Institute of Technology

(Approved by AICTE, New Delhi. Affiliated to VTU, Belagavi)

(Recognized Under Section 2(f) by UGC, New Delhi)

Udyog Vidya Nagar, Haliyal - 581329, Dist.: Uttara Kannada

Phone: 08284-220861, 220334, 221409, Fax: 08284-220813

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COs STATEMENTS FOR THE SCHEME 2017 (BATCH:2017 - 2021)

Sl. No.	Sub Name	COs	CO Statement
1ST SEMESTER			
1	Engineering Mathematics-I	17MAT11.1	To apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve
		17MAT11.2	To determine partial derivatives and Jacobians of functions
		17MAT11.3	To analyze position, velocity, and acceleration in two or three dimensions using the calculus of vector valued functions
		17MAT11.4	To apply first order differential equations to various physical problems
		17MAT11.5	To determine solutions of system of linear equations, Quadratic and canonical forms
2	Engineering Chemistry	17CHE12.1	Knowledge on the types of electrodes, electrochemical and concentration cells, classical and modern batteries and fuel cells
		17CHE12.2	Knowledge on the causes and effects of corrosion of metals and control of corrosion. Modification of the surface properties of metals to develop resistance to corrosion, wear, tear, impact, etc. by electroplating and electroless plating.
		17CHE12.3	Knowledge on the importance of energy conservation in the context of energy crisis, fuel properties and importance of solar energy as sustainable source and PV cells for solar energy conversion.
		17CHE12.4	Knowledge on the unique properties of polymers and correlation of properties with polymer structure and versatility of polymers for various applications
		17CHE12.5	Knowledge on the boiler troubles, sewage treatment and desalination of sea water and overviewing of synthesis, properties and applications of nanomaterials.
3	Programming in C and Data Structures	17PCD13.1	Achieve knowledge of design and development of problem solving skills.
		17PCD13.2	Understand the basic principles of programming in C language.
		17PCD13.3	Design and develop modular programming skills.
		17PCD13.4	Effective utilization of memory using pointer technology,
		17PCD13.5	Understand the basic concepts of pre-processor directives, data structures & file operations
4	Computer Aided Engineering Drawing	17CED14.1	Student will able to demonstrate using CAD software
		17CED14.2	Student will able to visualize and draw orthographic projections, sections of solids and isometric views of solids
5	Basic Electronics	17ELN15.1	Understand the characteristics of PN Junction diode
		17ELN15.2	Understand the biasing methods of BJT and applications of BJT
		17ELN15.3	Discuss ideal and practical operational amplifier (op-amp) parameters and apply them to design various applications
		17ELN15.4	Describe the various types of modulation schemes and transducer applications
		17ELN15.5	Understand and apply the various Boolean Logic to build the combinational logics circuits and understand the applications of 8051 microcontrollers.
6	Computer Programming Lab.	17CPL16.1	Gaining knowledg of varioursparts of computers
		17CPL16.2	Able to draw flowchart and write algorithms
		17CPL16.3	Able design and development of C problem solving skills
		17CPL16.4	Able design and develop module programming skills
		17CPL16.5	Able tto trace and debug the program
7	Engineering Chemistry Lab.	17CHEL17.1	Students will have the knowledge in handling different types of instruments for analysis of materials using small quantities of materials involved for quick and accurate results
		17CHEL17.2	Students will have the knowledge in carrying out different types of titrations for estimation of concerned in materials using comparatively more quantities of materials involved for good results



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2ND SEMESTER

8	Engineering Mathematics-II	17MAT21.1	To solve differential equations of electrical circuits, forced oscillation of mass spring and elementary heat transfer
		17MAT21.2	To solve partial differential equations fluid mechanics, electromagnetic theory and heat transfer
		17MAT21.3	To evaluate double and triple integrals to find area, volume, mass and moment of inertia of plane and solid region
		17MAT21.4	To use curl and divergence of a vector valued functions in various applications of electricity, magnetism and fluid flows
		17MAT21.5	To use Laplace transforms to determine general or complete solutions to linear ODE
9	Engineering Physics	17PHY22.1	Learn and understand intricacies of matter and energy which is essential to explore the role of subatomic particles in understanding properties of matter at macro, micro and nano level.
		17PHY222	Exploring the inadequacies of classical theory and to apply the principles of quantum mechanics which suites real time applications.
		17PHY223	Learn the niceties of technologically important material such as conductor, semiconductor and superconductor, their potential properties in understanding there use in engineering applications.
		17PHY224	Understand the physics of lasers and optical fibers and to appreciate their role in modern instruments.
		17PHY225	Understand the basics of crystal structures and apply to engineering field.
		17PHY226	Recognize the significance of shock waves and its applications in aerodynamics and aerospace engineering.
10	Elements of Civil Engg. and Mechanics	17CIV23.1	Know the basics of Civil Engineering, its scope of study, knowledge about roads, bridges and dams
		17CIV23.2	Comprehend the action of Forces, Moments and other loads on systems of rigid bodies.
		17CIV23.3	Compute the reactive forces and the effects that develop as a result of the external loads
		17CIV23.4	Locate the Centroid and compute the Moment of Inertia of regular cross sections
		17CIV23.5	Express the relationship between the motion of bodies
11	Elements of Mechanical Engineering	17EME24.1	students shall demonstrate knowledge associated with various energy sources, formation of steam
		17EME24.2	student shall demonstrate knowledge associated with prime movers such as turbines and IC engines
		17EME24.3	students shall demonstrate knowledge associated with various metal removing process and robotics automation
		17EME24.4	students shall understanding of application and usage of various engineering materials
		17EME24.5	students shall demonstrate knowledge associated with refrigeration and air conditioning systems
12	Basic Electrical Engineering	17ELE25.1	Students will be able to comprehend the basic concept of AC and DC circuit
		17ELE25.2	Explain the working principle and construction of AC and DC machines
		17ELE25.3	Explain the working principle and construction of transformer
		17ELE25.4	Understand the electrical wiring concepts, earthing, domestic protection devices and electric shock
13	Workshop Practice	17WSL26.1	The Metal removal process by fitting practice and preparation of joints using appropriate fitting tools
		17WSL26.2	Preparation of welded joints
		17WSL26.3	Development of surfaces and forming models by soldering job.
14	Engineering Physics Laboratory	17PHYL27.1	To recognize the importance of light by exploring its interaction with matter and in realizing its characteristic properties.
		17PHYL27.2	Understanding of mechanical properties of the material by the application of stress.
		17PHYL27.3	Appreciating the significance of elementary electric circuits in the functioning of various



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3RD SEMESTER

15	Engineering Mathematics-III	CLO301.1	To express the given function in a series containing cosine and sine terms.
		CLO301.2	To determine the solution of PDE with boundary conditions by Fourier Transform and Z TRANSFORM
		CLO301.3	To solve algebraic and transcendental equations by various numerical techniques.
		CLO301.4	To determine the solution of an unknown function without the actual integration.
		CLO301.5	To determine the maximum or minimum value of functions represented in the form integrals by Calculus of variations.
16	Analog Digital Electronics	CLO302.1	Acquire the knowledge of JFETs and MOSFETs. Demonstrate the operational amplifier circuits and its application.
		CLO302.2	Understand, Illustrate and analyze Combinational Logic circuits, Simplification of Algebraic Equations using Karnaugh Maps and Quine McClusky Techniques.
		CLO302.3	Describe and Design Decoders, Encoders, Digital multiplexers, Demultiplexers, Adders and Subtractors, Binary comparators, Flip-Flops.
		CLO302.4	Describe, demonstrate, analyze, design synchronous, asynchronous, sequential circuits, state diagrams, registers and counters.
		CLO302.5	To understand A/D & D/A converters.
17	Data Structures And Applications	CLO303.1	Understand, Practice and Assimilate fundamentals of data structures and their applications essential for programming/problem solving
		CLO303.2	Describe, Analyze, Design and Evaluate the Linear Data Structures: Stack, Queues, Lists
		CLO303.3	Describe, Analyze, Design and Evaluate the Non-Linear Data Structures: Trees, Graphs
		CLO303.4	Describe, Analyze, Design and Evaluate the sorting & searching algorithms
		CLO303.5	Assess appropriate data structure during program development/Problem Solving
18	Computer Organization	CLO304.1	Acquire knowledge of the basic structure of computer and internal organization of the hardware components of it and also identify the design issues of an embedded system and pipelining.
		CLO304.2	Explore the concepts of program as sequence of machine instructions knowing the computer architecture and assembly language.
		CLO304.3	Analyze and design the arithmetic and logical units.
		CLO304.4	Design and evaluate the performance of memory systems.
		CLO304.5	Apply the knowledge gained, in the design of Computer and recognize the importance of life-long learning.
19	Unix Shell Programming	CLO305.1	Describe the architecture and features of UNIX Operating System and distinguish it from other Operating System.
		CLO305.2	Demonstrate UNIX commands for file handling and can change the permission associated with files.
		CLO305.3	Understand the vi editor and Write Regular expressions for pattern matching and apply them to various filters for a specific task
		CLO305.4	Demonstrate UNIX commands for process control.
		CLO305.5	Able to write shell and perl script.
20	Discrete Mathematical Structures	CLO306.1	Verify the correctness of an argument using propositional and predicate logic and truth tables.
		CLO306.2	Demonstrate the ability to solve problems using counting techniques and combinatorics in the context of discrete probability..
		CLO306.3	Solve problems involving recurrence relations and generating functions.
		CLO306.4	Perform operations on discrete structures such as sets, functions, relations, and sequences



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		CLO306.5	Construct proofs using direct proof, proof by contraposition, proof by contradiction, proof by cases, and mathematical induction.
21	Analog Digital Electronics Lab	CLO307.1	Use various Electronic Devices like Cathode ray Oscilloscope, Signal generators, Digital Trainer Kit, Multimeters and components like Resistors, Capacitors, Op amp and Integrated Circuit.
		CLO307.2	Design and demonstrate various combinational logic circuits.
		CLO307.3	Design and demonstrate various types of counters and Registers using Flip-flops
		CLO307.4	Use simulation package to design circuits.
		CLO307.5	Understand the working and implementation of ALU.
22	Data Structures Lab	CLO308.1	Understanding of linear and non linear data structures
		CLO308.2	Implementation of Linear data structures and their applications such as Stacks, Queues and Lists
		CLO308.3	Design and develop Non-Linear Data Structures and their Applications such as Trees and Graphs
		CLO308.4	Sorting and Searching Algorithms
4TH SEMESTER			
23	Engineering Mathematics-IV	CLO401.1	To solve higher order differential equation by various numerical techniques.
		CLO401.2	To solve the ordinary and partial differential equation by using special functions.
		CLO401.3	To determine the analyticity, potential fields residues and poles of complex potentials in field theory.
		CLO401.4	To determine the probability and distribution of the given statistical data..
		CLO401.5	To understand statistical inference based on sampling distribution
24	Software Engineering	CLO402.1	Design a software system, component, or process to meet desired needs within realistic constraints.
		CLO402.2	Assess professional and ethical responsibility.
		CLO402.3	Function on multi-disciplinary teams.
		CLO402.4	Use the techniques, skills, and modern engineering tools necessary for engineering practice.
		CLO402.5	Analyze, design, implement, verify, validate, apply and maintain software systems or parts of software systems.
25	Design & Analysis Of Algorithms	CLO403.1	Understand the fundamental strategies and design techniques in Algorithms
		CLO403.2	Describe computational solution to well known problems like searching, sorting etc.
		CLO403.3	Estimate the computational complexity of different algorithms.
		CLO403.4	Devise an algorithm using appropriate design strategies for problem solving.
26	Microprocessors & Microcontrollers	CLO404.1	Differentiate between microprocessors and microcontrollers
		CLO404.2	Design and develop assembly language code to solve problems
		CLO404.3	Gain the knowledge for interfacing various devices to x86 family and ARM processor
		CLO404.4	Demonstrate design of interrupt routines for interfacing devices
27	Object Oriented Concepts	CLO405.1	Learn fundamental features of object oriented language and JAVA
		CLO405.2	Set up Java JDK environment to create, debug and run simple Java programs.
		CLO405.3	Create multi-threaded programs and event handling mechanisms.
		CLO405.4	Introduce event driven Graphical User Interface (GUI) programming using applets and swings
28	Data Communication	CLO406.1	Comprehend the transmission technique of digital data between two or more computers and a computer network that allows computers to exchange data.



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		CLO406.2	Explain with the basics of data communication and various types of computer networks.
		CLO406.3	Demonstrate Medium Access Control protocols for reliable and noisy channels.
		CLO406.4	Expose wireless and wired LANs along with IP version.
		CLO407.1	Design and implement various algorithms in JAVA
		CLO407.2	Employ various design strategies for problem solving.
		CLO407.3	Measure and compare the performance of different algorithms.
		CLO407.4	To implement & demonstrate core Object Oriented concepts in Java
29	Design & Analysis Of Algorithms Lab	CLO408.1	Learn 80x86 instruction sets and gain the knowledge of how assembly language works.
		CLO408.2	Design and implement programs written in 80x86 assembly language
		CLO408.3	Know functioning of hardware devices and interfacing them to x86 family
30	Microprocessors & Microcontrollers Lab	CLO408.4	Choose processors for various kinds of applications.
5TH SEMESTER			
		CLO501.1	Define management, organization, entrepreneur, planning, staffing, ERP and outline their importance in entrepreneurship
		CLO501.2	Utilize the resources available effectively through ERP
31	Management & Entrepreneurship for IT Industry	CLO501.3	Make use of IPRs and institutional support in entrepreneurship
		CLO502.1	Demonstration of application layer protocols
		CLO502.2	Discuss transport layer services and understand UDP and TCP protocols
		CLO502.3	Explain routers, IP and Routing Algorithms in network layer
		CLO502.4	Disseminate the Wireless and Mobile Networks covering IEEE 802.11 Standard
32	Computer Networks	CLO502.5	Illustrate concepts of Multimedia Networking, Security and Network Management
		CLO503.1	Provide a strong foundation in database concepts, technology, and practice.
		CLO503.2	Practice SQL programming through a variety of database problems.
		CLO503.3	Demonstrate the use of concurrency and transactions in database
33	Database Management System	CLO503.4	Design and build database applications for real world problems.
		CLO504.1	Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation
		CLO504.2	Learn how to translate between different models of Computation (e.g., Deterministic and Nondeterministic and Software models)
		CLO504.3	Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers
		CLO504.4	Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness
34	Automata theory and Computability	CLO504.5	Classify a problem with respect to different models of Computation
		CLO505.1	Derive test cases for any given problem.
		CLO505.2	Compare the different testing techniques.
		CLO505.3	Classify the problem into suitable testing model.
		CLO505.4	Apply the appropriate technique for the design of flow graph.
35	Introduction to Software Testing	CLO505.5	Create appropriate document for the software artefact.
		CLO505.2.1	Interpret the need for advanced Java concepts like Enumerations and Collections in developing modular and efficient programs.
36	Advanced JAVA and J2EE		



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		CLO505.2.2	Make use of different string handling functions to develop efficient programs.
		CLO505.2.3	Adapt servlets to build server side programs
		CLO505.2.4	Using JSP's to build web pages and client and server applications.
		CLO505.2.5	Make use of JDBC to access database through Java Programs
37	Dot net framework for application development	CLO506.1	Inspect Visual Studio Programming environment and toolset designed to build application for Microsoft Windows
		CLO506.2	Understand Object Oriented Programming Concepts in C# Programming Language
		CLO506.3	Interpret Interfaces and define custom interfaces for application
		CLO506.4	Build Custom collections and generics in C#
		CLO506.5	Constructs events and query data using query expressions
38	Computer Networks Lab	CLO507.1	Demonstrate operation of network and its management commands
		CLO507.2	Simulate and demonstrate the performance of GSM and CDMA
		CLO507.3	Implement data link layer and transport layer protocols
		CLO507.4	Design & implement network to demonstrate the performance of different protocols.
39	DBMS With Mini Project Lab	CLO508.1	Foundation knowledge database concepts technology.
		CLO508.2	Practice to groom students into well informed application developers
		CLO508.3	Strong practice in SQL programming through a variety of database problems
		CLO508.4	Develop database applications using front end tools and backend DBMS
6TH SEMESTER			
40	Cryptography, Network Security and Cyber Law	CLO601.1	Discuss cryptography and its need to various applications.
		CLO601.2	Comprehend the mathematical background for cryptography.
		CLO601.3	Design and develop simple cryptography algorithms.
		CLO601.4	Understand cyber security and need cyber Law.
41	Computer Graphics and Visualization	CLO602.1	Design and implement algorithms for 2D graphics primitives and attributes.
		CLO602.2	Illustrate Geometric transformations on both 2D and 3D objects.
		CLO602.3	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.
		CLO602.4	Decide suitable hardware and software for developing graphics packages using OpenGL.
42	System Software and Compiler Design	CLO603.1	Define System Software such as Assemblers, Loaders, Linkers and Macroprocessors
		CLO603.2	Familiarize with source file, object file and executable file structures and libraries.
		CLO603.3	Design and develop Lexical analyzer, parsers, and code generators
		CLO603.4	Discuss About Lex and Yacc tools for implementing different concepts of system software.
43	Operating Systems	CLO604.1	Demonstrate need for OS and different types of OS
		CLO604.2	Apply suitable techniques for management of different resources
		CLO604.3	Use processor, Memory, storage and file system commands
		CLO604.4	Realize the different concepts of OS in platform of usage through case studies.
44	Data Mining and Data Warehousing	CLO605.1	Familiarize with multidimensional data models
		CLO605.2	Identify data mining problems and implement the data warehouse



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		CLO605.3	Write association rules for a given data pattern.
		CLO605.4	Choose between classification and clustering solution.
		CLO606.1	Learn Syntax and Semantics and create Functions in Python.
		CLO606.2	Handle Strings and Files in Python
		CLO606.3	Create, run and manipulate python program using core data structures like Lists, Dictionaries and Regular expressions in Python.
		CLO606.4	Interpret Object Oriented Programming concepts in Python
		CLO606.5	Implement exemplary applications related to network programming, Web Services and Database Programming in Python.
45	Python Programming		
		CLO607.1	To make students familiar with lexical analysis and syntax analysis phases of compiler design and implement programs on these phases using lex and YACC tools and/or C,C++ or Java
		CLO607.2	To enable students to learn different types of CPU scheduling algorithms used in operating systems
		CLO607.3	To make students able to implement memory management page replacement and deadlock handling algorithms
46	System Software and Operating System Lab		
		CLO608.1	Demonstrate simple algorithms using OpenGL graphics primitives and attributes
		CLO608.2	Implementation of line drawing and clipping algorithms using OpenGL functions
		CLO608.3	Design and implementation of algorithms, geometric transformations on both 2D and 3D objects
		CLO608.4	Animate real world problems using opengl.
47	Computer Graphics Lab with Miniproject		
7TH SEMESTER			
		CLO701.1	Adapt html and css syntax and semantics to build web pages
		CLO701.2	Construct and visually format tables and forms using html and css
		CLO701.3	Develop client-side scripts using javascript and server side scripts using php to generate and display the contents dynamical
		CLO701.4	Appraise the principles of object oriented development using php
		CLO701.5	Inspect javascript frameworks like jquery and backbone which facilitates developer to focus on core features.
48	Web Technology and its applications		
		CLO702.1	To understand and assimilate fundamentals of computer architecture with ISA and trends in technology and measuring performance.
		CLO702.2	Ability to describe, analyze, evaluate and design the ILP and Pipelining to increase the performance of processor.
		CLO702.3	Describe, analyze, evaluate the optimization techniques to enhance the performance of cache memory.
		CLO702.4	Ability to understand describe, analyze the memory design architectures.
		CLO702.5	Describe, analyze the concepts exploiting ILP and Loop level parallelism for VLIW and EPIC .
49	Advanced Computer Architectures		
		CLO703.1	Choose the learning techniques and investigate concept learning
		CLO703.2	Identify the characteristics of decision tree and solve problems associated with it.
		CLO703.3	Apply effectively neural networks for appropriate applications
		CLO703.4	Apply Bayesian techniques and derive effectively learning rules
		CLO703.5	Evaluate hypothesis and investigate instant based learning and reinforced learning
50	Machine Learning		



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51	Cloud Computing and its applications	CLO704.1	Familiarize with the fundamentals of cloud computing
		CLO704.2	Investigate complex architecture of cloud computing
		CLO704.3	Illustrate the cloud application programming and aneka platform
		CLO704.4	Contrast different cloud platforms used in industry
52	Storage Area Networks	CLO705.1	Identify key challenges in managing information and analyze different storage networking technology and virtualization.
		CLO705.2	Demonstrate components and the implementation of NAS.
		CLO705.3	Describe CAS architecture and types of archives and forms of virtualization.
		CLO705.4	Illustrate the storage infrastructure and management activities.
53	Machine Learning LAB	CLO706.1	Make use of datasets in implementing machine learning algorithms
		CLO706.2	Implement Machine learning concepts and algorithms in any suitable language of choice
		CLO706.3	Evaluate different ML algorithms
		CLO706.4	Performance analysis of supervised learning algorithms
54	Web Technology LAB with Miniproject	CLO707.1	Design and develop static and dynamic web pages
		CLO707.2	Familiarize with client side programming,
		CLO707.3	Learn database connectivity to web applications
		CLO707.4	Familiarize with server side programming active server pages
8TH SEMESTER			
55	Internet of Things and Applications	CLO801.1	Interpret the impact and challenges posed by iot networks leading to new architectural models
		CLO801.2	compare and contrast the deployments of smart objects and the technologies to connect them to network.
		CLO801.3	Appraise the role of IOT protocols for efficient network communication
		CLO801.4	Elaborate the need for data analytics and security in iot.
56	Big Data Analytics	CLO802.1	Master the concepts of HDFS and map reduce framework
		CLO802.2	Investingate hadoop related tools for big data analytics and perform basic hadoop administration.
		CLO802.3	Recognize the role of business intelligence, data warehousing and visualization in decision making.
		CLO802.4	Infer the importance of core data mining techniques for data analytics
		CLO802.5	Compare and contrast different text mining techniques
57	User Interface Design	CLO803.1	Design a basic user interface useful for business functions .
		CLO803.2	Create menus as a part of UID
		CLO803.3	Design of various window templates.
		CLO803.4	Establishing the connection between menus and windows and testing it.
58	Project work phase II	CLO805.1	To enable students to formulate problem by providing a glimpse of real-world problems and challenges that need computer based solution.
		CLO805.2	To enable students to analyse the problem with vast literature and engineering knowledge.
		CLO805.3	To enable students to design and produce outcome by using all concepts of computer science engineering.
		CLO805.4	To enable to implement the system, develop report and present the findings of the study conducted in the preferred domain.
59	Seminar	CLO806.1	To study research papers for understanding of a new field, to summarise and review them.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COs STATEMENTS FOR THE SCHEME 2017 (BATCH:2017 - 2021)

	CLO806.2	To identify promising new directions of various cutting edge technologies
	CLO806.3	To impart skills in preparing detailed report describing the project and results
	CLO806.4	To effectively communicate by making an oral presentation before an evaluation committee

D. Talwar

HOD

HOD

Computer Science & Engineering
KLS Vishwanathrao Deshpande
Institute of Technology, Haliyal.