



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 2015 (BATCH:2016 – 2020)

Sl. No.	Sub Name	CO's	CO Statement
1	Engineering Maths-I	15MAT11.1	To apply the knowledge of calculus to solve problems related to polar curves and its applications in determining the bentness of a curve.
		15MAT11.2	To use partial derivatives to calculate rates of change of multivariate functions.
		15MAT11.3	To analyze position, velocity, and acceleration in two or three dimensions using the calculus of vector valued functions.
		15MAT11.4	To recognize and solve first-order ordinary differential equations, Newton's law of cooling.
		15MAT11.5	To use matrices techniques for solving systems of linear equations in the different areas of Linear Algebra
2	Engineering Physics	15PHY12.1	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.
		15PHY12.2	Exploring the inadequacies of classical theory and to apply the principles of quantum mechanics which suites real time applications.
		15PHY12.3	Learn the niceties of technologically important material such as conductor, semiconductor and superconductor, their potential properties in understanding there use in engineering applications.
		15PHY12.4	Understand the physics of lasers and optical fibers and to appreciate their role in modern instruments.
		15PHY12.5	Understand the basics of crystal structures and apply to engineering field.
		15PHY12.6	Recognize the significance of shock waves and its applications in aerodynamics and aerospace engineering.
3	Elements of Civil Engg. & Mechanics	15CIV13.1	Know the basics of Civil Engineering, its scope of study, knowledge about roads, bridges and dams
		15CIV13.2	Comprehend the action of Forces, Moments and other loads on systems of rigid bodies.
		15CIV13.3	Compute the reactive forces and the effects that develop as a result of the external loads
		15CIV13.4	Locate the Centroid and compute the Moment of Inertia of regular cross sections
		15CIV13.5	Express the relationship between the motion of bodies
4	Elements of Mechanical Engineering	15EME	students shall demonstrate knowledge associated with various energy sources, formation of steam
		CO2	student shall demonstrate knowledge associated with prime movers such as turbines and IC engines
		CO3	students shall demonstrate knowledge associated with various metal removing process and robotics automation
		CO4	students shall understanding of application and usage of various engineering materials
		CO5	students shall demonstrate knowledge associated with refrigeration and air conditioning systems
5	Basic Electrical Engineering	15ELE14.1	Students will be able to comprehend the basic concept of AC and DC circuit
		15ELE14.2	Explain the working principle and construction of AC and DC machines
		15ELE14.3	Explain the working principle and construction of transformer
		15ELE14.4	Understand the electrical wiring concepts, earthing, domestic protection devices and electric shock
6	Workshop Practice	15WSL16.1	The Metal removal process by fitting practice and preparation of joints using appropriate fitting tools
		15WSL16.2	Preparation of welded joints
		15WSL16.3	Development of surfaces and forming models by soldering job.



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7	Engg. Physics Lab.	15PHYL17.1	To recognize the importance of light by exploring its interaction with matter and in realizing its characteristic properties.
		15PHYL17.2	Understanding of mechanical properties of the material by the application of stress.
		15PHYL17.3	Appreciating the significance of elementary electric circuits in the functioning of various electric /electronic devices and gaining understanding of physics of the materials.
		15PHYL17.4	Design and implementation of electronic circuits to gain better understanding of physics of semiconductor devices.
		15PHYL17.5	Appreciating the role of Quantum mechanics in exploring the electrical properties of the materials.
8	Engineering Maths-II	15MAT21.1	To solve differential equations of electrical circuits, forced oscillation of mass spring and elementary heat transfer
		15MAT21.2	To solve partial differential equations fluid mechanics, electromagnetic theory and heat transfer
		15MAT21.3	To evaluate double and triple integrals to find area, volume, mass and moment of inertia of plane and solid region.
		15MAT21.4	To use curl and divergence of a vector valued functions in various applications of electricity, magnetism and fluid flows
		15MAT21.5	To use Laplace transforms to determine general or complete solutions to linear ODE
9	Engineering Chemistry	15CHE22.1	Knowledge on the types of electrodes, electrochemical and concentration cells, classical and modern batteries and fuel cells
		15CHE22.2	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.
		15CHE22.3	Knowledge on the importance of energy conservation in the context of energy crisis, fuel properties and propose some amicable alternatives for energy which are also sustainable.
		15CHE22.4	Knowledge on the replacement of conventional materials by polymers for various applications
		15CHE22.5	Knowledge on the boiler troubles, sewage treatment and desalination of sea water and overviewing of synthesis, properties and applications of nanomaterials.
10	Programming in C & Data Structures	15CED23.1	Achieve knowledge of design and development of problem solving skills.
		15CED23.2	Understand the basic principles of programming in C language.
		15CED23.3	Design and develop modular programming skills.
		15CED23.4	Effective utilization of memory using pointer technology,
		15CED23.5	Understand the basic concepts of pre-processor directives, data structures & file operations
11	Computer Aided Engineering Drawing	15CED24.1	Students will be able to demonstrate the usage of CAD software.
		15CED24.2	Students will be able to visualize and draw projection of points and lines
		15CED24.3	Students will be able to visualize and draw Orthographic projections, Sections of solids and Isometric views of solids
		15CED24.4	Students are evaluated for their ability in applying various concepts to solve practical problems related to engineering drawing
12	Basic Electronics	15ELN25.1	Understand the characteristics of PN Junction diode
		15ELN25.2	Understand the biasing methods of BJT and applications of BJT
		15ELN25.3	Discuss ideal and practical operational amplifier (op-amp) parameters and apply them to design various applications
		15ELN25.4	Describe the various types of modulation schemes and transducer applications
		15ELN25.5	Understand and apply the various Boolean Logic to build the combinational logics circuits and understand the applications of 8051 microcontrollers.



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13	Computer Programming 4ab.	15CPL26.1	Gaining knowledge of various parts of computers
		15CPL26.2	Able to draw flowchart and write algorithms
		15CPL26.3	Able design and development of C problem solving skills
		15CPL26.4	Able design and develop module programming skills
		15CPL26.5	Able to trace and debug the program
14	Engineering Chemistry Lab.	15CHEL27.1	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
		15CHEL27.2	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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3RD SEMESTER			
15	Engineering Mathematics-III	CLO301.1	Use Laplace transform and inverse Laplace transform in solving differential/ integral equation arising in network analysis, control systems and other fields of engineering.
		CLO301.2	Demonstrate Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
		CLO301.3	Make use of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
		CLO301.4	Solve first and second order ordinary differential equations arising in engineering problems using single step and multistep numerical methods.
		CLO301.5	Determine the externals of functionals using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis.
16	Analog Digital Electronics	CLO302.1	Acquire the knowledge of JFETs and MOSFETs, operational amplifier circuits
		CLO302.2	Demonstrate the operational amplifier circuits and its application
		CLO302.3	Understand, Illustrate and analyze Combinational Logic circuits, Simplification of Algebraic Equations using Karnaugh Maps and Quine McClusky Techniques.
		CLO302.4	Describe and Design Decoders, Encoders, Digital multiplexers, Demultiplexers, Adders and Subtractors, Binary comparators, Flip-Flops.
		CLO302.5	Describe, demonstrate, analyze, design synchronous, asynchronous, sequential circuits, state diagrams, registers and counters, 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..



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		CLO306.3	Solve problems involving recurrence relations and generating functions.
		CLO306.4	Perform operations on discrete structures such as sets, functions, relations, and sequences
		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	Asymptotic performance of algorithms.
		CLO308.2	Linear data structures and their applications such as Stacks, Queues and Lists
		CLO308.3	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



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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.
		CLO406.2	Explain with the basics of data communication and various types of computer networks.
		CLO406.3	Illustrate TCP/IP protocol suite and switching criteria.
		CLO406.4	Demonstrate Medium Access Control protocols for reliable and noisy channels.
		CLO406.5	Expose wireless and wired LANs along with IP version.
29	Design & Analysis Of Algorithms Lab	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
30	Microprocessors & Microcontrollers 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
		CLO408.4	Choose processors for various kinds of applications.

5TH SEMESTER

31	Management & Entrepreneurship for IT Industry	CLO501.1	Define management, organization, entrepreneur, planning, staffing, ERP and outline their importance in entrepreneurship
		CLO501.2	Utilize the resources available effectively through ERP
		CLO501.3	Make use of IPRs and institutional support in entrepreneurship
32	Computer Networks	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
		CLO502.5	Illustrate concepts of Multimedia Networking, Security and Network Management
33	Database Management System	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
		CLO503.4	Design and build database applications for real world problems.
34	Automata theory and Computability	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
		CLO504.5	Classify a problem with respect to different models of Computation
35	Introduction to Software Testing	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.



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		CLO505.4	Apply the appropriate technique for the design of flow graph.
		CLO505.5	Create appropriate document for the software artefact.
36	Advanced JAVA and J2EE	CLO506.1	Interpret the need for advanced Java concepts like Enumerations and Collections in developing modular and efficient programs.
		CLO506.2	Make use of different string handling functions to develop efficient programs.
		CLO506.3	Adapt servlets to build server side programs
		CLO506.4	Using JSP's to build web pages and client and server applications.
		CLO506.5	Make use of JDBC to access database through Java Programs
		37	Dot net framework for application development
CLO507.2	Understand Object Oriented Programming Concepts in C# Programming Language		
CLO507.3	Interpret Interfaces and define custom interfaces for application		
CLO507.4	Build Custom collections and generics in C#		
CLO507.5	Constructs events and query data using query expressions		
38	Computer Networks Lab	CLO508.1	Demonstrate operation of network and its management commands
		CLO508.2	Simulate and demonstrate the performance of GSM and CDMA
		CLO508.3	Implement data link layer and transport layer protocols
39	DBMS With Mini Project Lab	CLO509.1	Foundation knowledge database concepts technology and practice to groom students into well informed application developers
		CLO509.2	Strong practice in SQL programming through a variety of database problems
		CLO509.3	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	Design and develop simple cryptography algorithms.
		CLO601.3	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.
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	Describe the front-end and back-end phases of compiler and their importance to
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	Identify data mining problems and implement the data warehouse
		CLO605.2	Write association rules for a given data pattern.
		CLO605.3	Choose between classification and clustering solution.



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45	Python Programming	CLO606.1	Learn Syntax and Semantics and create Functions in Python.
		CLO606.2	Handle Strings and Files in Python
		CLO606.3	Understand Lists, Dictionaries and Regular expressions in Python.
		CLO606.4	Implement Object Oriented Programming concepts in Python
		CLO606.5	Build Web Services and introduction to Network and Database Programming in Python.
46	System Software and Operating System Lab	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
47	Computer Graphics Lab with Miniproject	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
7TH SEMESTER			
48	Web Technology and its applications	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 dynamically
		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.
49	Advanced Computer Architectures	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 .
50	Machine Learning	CLO703.1	Choose the learning techniques and investigate concept learning
		CLO703.2	Identify the characteristics of decision tree and solve problems associated with
		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
51	Cloud Computing and its applications	CLO704.1	Explain the fundamentals of cloud computing
		CLO704.2	illustrate the cloud application programming and aneka platform
		CLO704.3	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.



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		CLO705.2	Explain 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
		CLO707.1	Design and develop static and dynamic web pages
54	Web Technology LAB with Miniproject	CLO707.2	familiarize with client side programming, server side programming active server pages
		CLO707.3	Learn database connectivity to web applications
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.
		CLO802.1	Master the concepts of HDFS and map reduce framework
		CLO802.2	Investigate 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 then importance of core data mining techniques for data analytics
56	Big Data Analytics	CLO802.5	Compare and contrast different text mining techniques
		CLO803.1	The student will be able to design a basic user interface useful for business.
		CLO803.2	The student will be able to create menus.
		CLO803.3	The student will be able to create windows.
57	User Interface Design	CLO803.4	The student will be able to make a connection between menus and windows.
		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.
58	Project work phase II	CLO805.4	To enable to implement the system, develop report and present the findings of the study conducted in the preferred domain.
		CLO806.1	To study research papers for understanding of a new field, to summarise and review them.
		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
59	Seminar	CLO806.4	To effectively communicate by making an oral presentation before an evaluation committee

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HOD

Computer Science & Engineering
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