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Display of Department of CS& E Sample POs, PSOs & COs





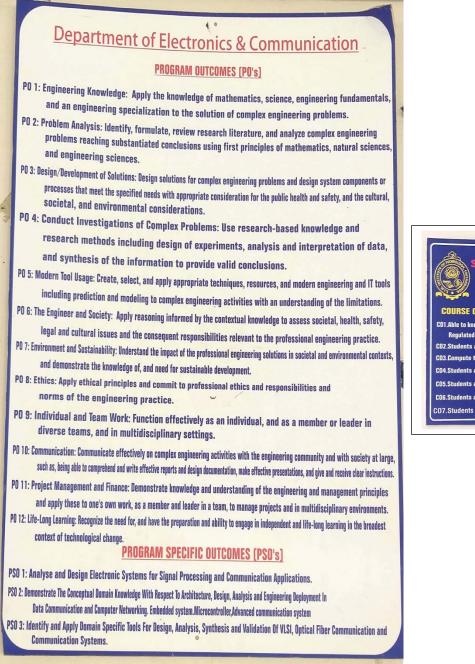
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Display of Department of E& C Sample POs, PSOs & COs





03.Compute the parameters from the characteristics of JFET and MOSFET devices. 04.Students able to Design test and evaluate BJT amplifier in CE configuration.

CO5.Students able to Design and test JFET/MOSFET amplifier

CO6.Students able to Design and test a power amplifier.

CO7.Students able to Design and test various types of oscillator.



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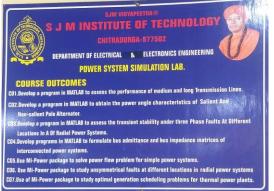
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Display of Department of E& E Sample POs, PSOs & COs

Department of Electrical & Electronics PROGRAM OUTCOMES (PO's) Po 1:Engineering Knowledge: Apply Knowledge Of Differential Equations, Vector Calculus, Complex Variables, Matrix Theory, Probability Theory, Physics And Chemistry, Electrical And Electronic Engineering Fundamentals. PO 2:Problem Analysis: Graduates will Identify, formulate and solve complex electrical and electronics engineering problems using the first principles of mathematics natural sciences and engineering science PO 3:Design: Graduates will design Electrical and Electronics systems meeting the given specifications for different problems taking safety and precautions into consideration. PO 4:Investigations: Graduates will Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions PO 5:Tool Usage: Graduates will use modern software tools to model and analyze problems, apply appropriate techniques and IT tools for the design & analysis of the systems keeping in view their limitations. PO 6:The Engineer and Society: Graduates will understand the impact of local and global issues / happenings and assess societal, health, legal and cultural issue with competency in professional engineering practice on Electrical Engineers. PO 7: Environment and Sustainability: Graduates will Demonstrate professional skills and contextual reasoning and provide sustainable solutions for problems related to Electrical and Electronics Engineering and also will understand their impact on environment. PO 8:Ethics: Graduates will have knowledge of professional ethics and code of conduct as applied to Electrical Engineers. PO 9:Individual and Team work:Graduates will work effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings. PO 10:Communication: Graduates will communicate effectively in both verbal and written form among engineering community, being able to comprehend and write reports presentation and give / receive clear instructions. PO 11:Project Management and Finance:Graduates will plan, demonstrate and execute engineering & management principles in their own / team projects in multidisciplinary environment PO 12:Life-long learning: Graduates will have the ability for self- education, recognize the need for and have the ability to engage in independent and lifelong learning. PROGRAM SPECIFIC OUTCOMES (PSO's) PSO 1: Ability to specify architect, design and analyze systems that efficiency generate, transmit, distribute and utilize electrical power. PSO 2: Ability to specify design, prototype and test modern electronic systems that perform analog and digital processing function.

PSO 3: Ability to use software for design, simulation and analysis of electrical system.





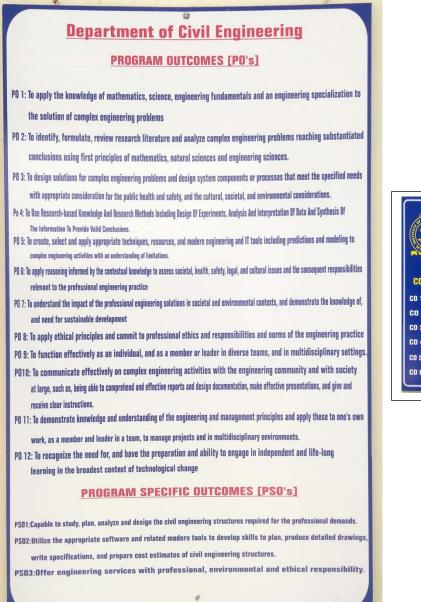
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Display of Department of Civil Engineering Sample POs, PSOs & COs





- CO 1. Conduct appropriate laboratory experiments and interpret the results
- CO 2. Determine the quality and suitability of cement
- CO 3. Design appropriate concrete mix
- CO 4. Determine strength and quality of concrete
- CO 5. Test the road aggregates and bitumen for their suitability as road material.
- CO 6. Test the soil for its suitability as sub grade soil for pavements.



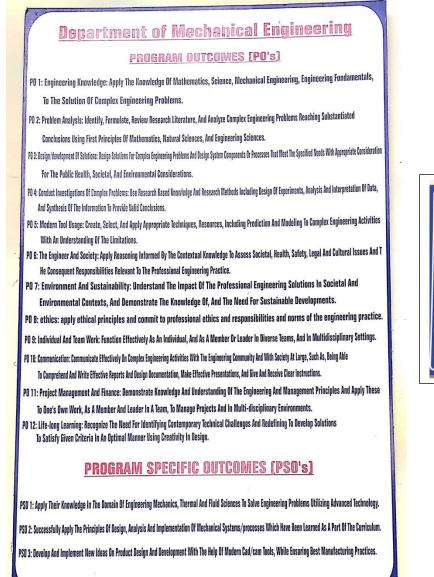
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Display of Department of Mechanical Engineering Sample POs, PSOs & COs







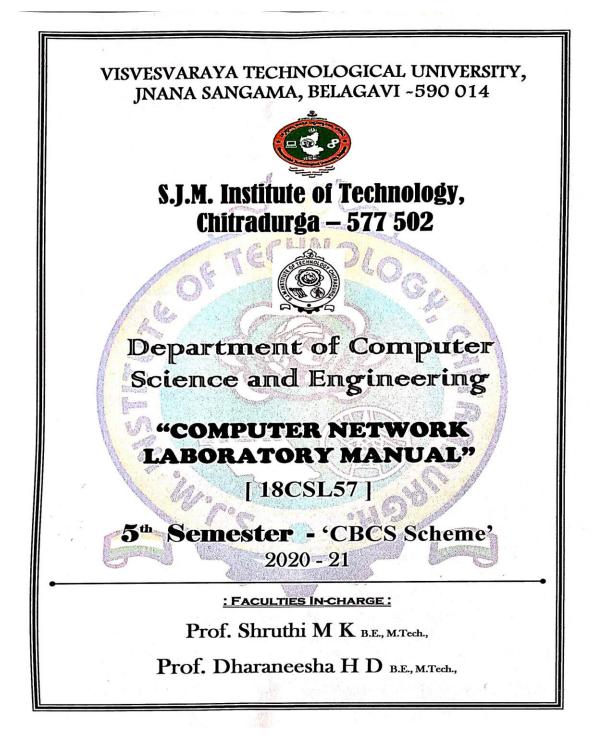
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Display of POs, PSOs & COs in Laboratory Manuals





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| Depa | artment of Computer Science & Engineering |
|--|--|
| | Program Outcomes (POs) |
| PO 1: Apply the known formulate and solve a | owledge of Mathematics, Science and Computer Engineering to identifuny engineering problems with varied complexity. |
| PO 2: Design and de the realistic constrain | evelop a system, component or process to meet the desired needs with ts to solve the real-time problems for betterment of society. |
| | nduct experiments as well as analyze and interpret data. |
| | and Present the information effectively. |
| | niques, skills and modern engineering tools necessary for engineerin |
| PO 6: Handle variou any organizations glo | is technical, administrative and managerial responsibilities successfully i bally. |
| PO 7: Get Recognize | e as successful Entrepreneur globally. |
| PO 8: Demonstrate c social importance. | commitment in handling any responsibilities with professional, ethical an |
| PO 9: Engage in lifel | long learning to upgrade their engineering skills consistently. |
| PO 10: Adapt to any good sustainability ar | working environment of heterogeneous and multidisciplinary teams wit and high performance. |
| PO 11: Clear succ government services. | cessfully the competitive exams for placement, higher studies an |
| PO 12: Understand a , environmental and s | nd demonstrate the impact of engineering solutions in a global, economi societal context. |
| A sea of | Program Specific Outcomes (PSOs) |
| | to design and develop hardware and software in emerging technolog oud computing embedded products and real-time systems. (Orientation gramming) |
| students in solving pr | of data management system like data acquisition, big data so as to enabl oblems using the techniques of data analytics like pattern recognition an . (Orientation towards Data Sciences) |
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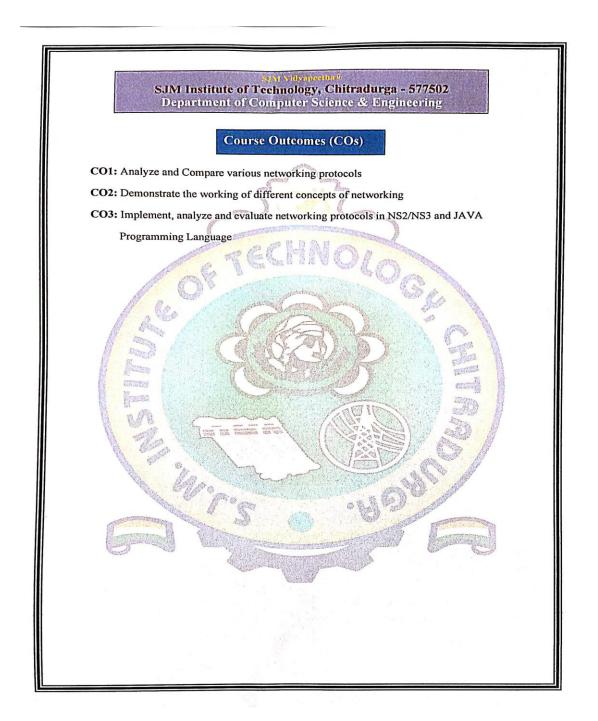


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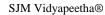
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PRINCIPAL S.J.M.I.T., CHITRADURGA



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VTU curriculum syllabus sample copy providing COs

C PROGRAMMING FOR PROBLEM SOLVING

| Semester | : 1/11 | CIE Marks | : 40 |
|-----------------------------|--------------|------------|------|
| Course Code | : 18CPS13/23 | SEE Marks | : 60 |
| Teaching Hours/week (L:T:P) | : 2:2:0 | Exam Hours | : 03 |

Course Learning Objectives:

This course (18CPS13/23) will enable students to:

- Familiarize with writing of algorithms, fundamentals of C and philosophy of problem solving.
- Implement different programming constructs and decomposition of problems into functions.
- Use and implement data structures like arrays and structures to obtain solutions.
- Define and use of pointers with simple applications.

MODULE-I

Introduction to computer Hardware and software: Computer generations, computer types, bits, bytes and words, CPU, Primary memory, Secondary memory, ports and connections, input devices, output devices, Computers in a network, Network hardware, Software basics, software types.

Overview of C: Basic structure of C program, executing a C program. Constant, variable and data types, Operators and expressions,

(RBT Levels : L1 & L2)

MODULE 2

Managing Input and output operations. Conditional Branching and Loops. Example programs, Finding roots of a quadratic equation, computation of binomial coefficients, plotting of Pascals triangle.

(RBT Levels : L1 & L2)

MODULE 3

Arrays: Arrays (1-D, 2-D), Character arrays and Strings, Basic Algorithms: Searching and Sorting Algorithms (Linear search, Binary search, Bubble sort and Selection sort).

(RBT Levels : L1, L2 & L3)

MODULE 4

User Defined Functions and Recursion. Example programs, Finding Factorial of a positive integers and Fibonacci series.

(RBT Levels : L1, L2 & L3)

67

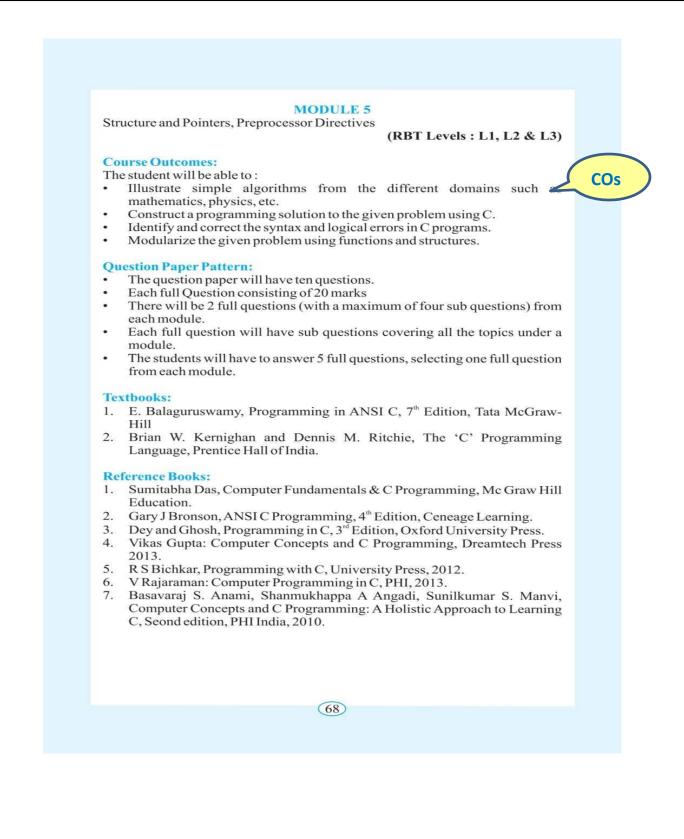


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Sample Internal Test question Paper with COs

SJM Vidyapeetha® SJM Institute of Technology Chitradurga – 577 502

| Test : 3 | rtment : Computer Science & Engg.N: 3 ^{ra} Course name and Code: 21/09/2021C Programming for Problem Solving: 9:15 - 10:15(18CPS23) | | Semester | aculty: Prof. Poral Nagar Max marks 30 | | |
|--------------------|--|--|-----------------|--|-----|-----|
| | | | 2 nd | | | |
| Note : A | Answer any | two full questions. | | | | |
| Q. No | | Quest ions | Marks | CL | СО | РО |
| 1. A) | Explain any | ain any 4 string manipulation functions with examples | | U | 2,3 | 1-3 |
| 1. B) | What are the categories of user defined functions. Explain. | | 7 | U | 2,3 | 1-3 |
| 2. A) | Explain the elements of user defined functions. | | 8 | U | 2,3 | 1-3 |
| 2. B) | Define a structure. How structures are defined, declared and initialized? | | 7 | U | 2,3 | 1-3 |
| 3. A) | - | gram to store and display the details of n ing array of structures. | 8 | Ар | 2 | 1-3 |
| 3. B) | Write a pro | gram to add two numbers using pointers. | 7 | Ap | 2,3 | 1-3 |
| 4. A) | Define a po initialized. | inter. How the pointers are declared, | 8 | U | 2,3 | 1-3 |
| 4. B) | List the imp | ortant preprocessor directives. | 7 | R | 2,3 | 1-3 |
| | | ******GOOD LUCK*** | ***** | | | |
| C O1 : ///ι | ıstrate simpl | e algorithms from different domains such as mat | hematics, ph | ysics etc. | | |
| CO2 : Co | nstruct a pro | ogramming solution to the given problem using C | | | | COs |
| CO3 : Ide | entify and co | rrect the syntax and logical errors in C Programs. | | | | |
| | odulariza the | given problem using functions and structures | | | | |

CL : COGNITIVE LEVEL (R: Remember; U: Understand ; Ap: Apply ; A: Analyse ; E: Evaluate ; C: Create)