

One Stop for All Study Materials

& Lab Programs



Fifure Vision By K B Hemanth Raj

Scan the QR Code to Visit the Web Page



Or

Visit : <u>https://hemanthrajhemu.github.io</u>

Gain Access to All Study Materials according to VTU, CSE – Computer Science Engineering, ISE – Information Science Engineering, ECE - Electronics and Communication Engineering & MORE...

Join Telegram to get Instant Updates: <u>https://bit.ly/VTU_TELEGRAM</u>

Contact: MAIL: <u>futurevisionbie@gmail.com</u>

INSTAGRAM: <u>www.instagram.com/hemanthraj_hemu/</u>

INSTAGRAM: www.instagram.com/futurevisionbie/

WHATSAPP SHARE: <u>https://bit.ly/FVBIESHARE</u>

Subject Code Number of Lecture Hours/Week Total Number of Lecture Hours	SEMESTER – 17ISL67 01I + 02P 40	VI IA Marks Exam Marks Exam Hours	40 60 03	
	CREDITS – (
Description (If any):				
Design, develop, and implement the			problems using	
any language of your choice under L	LINUX /Window	s environment.		
Lab Experiments: 1. Design and develop a progra				
problem defined as follows: A sides of a triangle and determ isosceles triangle, scalene trian upper limit for the size of any boundary-value analysis, execu	nine if the three agle, or they do n side is 10. Deri	values represent an e ot form a triangle at a ve test cases for your	quilateral triangle ll. Assume that th program based o	
2. Design, develop, code and ru commission problem. Analyze different test cases, execute the	it from the persp	pective of boundary va	alue testing, deriv	
3. Design, develop, code and run NextDate function. Analyze it different test cases, execute the	from the perspe	ective of boundary va	lue testing, deriv	
4. Design and develop a progra problem defined as follows: A sides of a triangle and determ isosceles triangle, scalene trian upper limit for the size of any equivalence class partitioning,	Accept three integnine if the three igle, or they do n side is 10. Deri	gers which are suppose values represent an e ot form a triangle at a ve test cases for your	sed to be the thre quilateral triangle ll. Assume that th program based o	
	e it from the po	in any suitable language to solve the erspective of equivalence class testing es and discuss the test results.		
6. Design, develop, code and run NextDate function. Analyze it			-	

7. Design and develop a program in a language of your choice to solve the triangle problem defined as follows: Accept three integers which are supposed to be the three sides of a triangle and determine if the three values represent an equilateral triangle, isosceles triangle, scalene triangle, or they do not form a triangle at all. Derive test cases for your program based on decision-table approach, execute the test cases and discuss the results.

derive different test cases, execute these test cases and discuss the test results.

8. Design, develop, code and run the program in any suitable language to solve the commission problem. Analyze it from the perspective of decision table-based testing, derive different test cases, execute these test cases and discuss the test results.

https://hemanthrajhemu.github.io

- 9. Design, develop, code and run the program in any suitable language to solve the commission problem. Analyze it from the perspective of dataflow testing, derive different test cases, execute these test cases and discuss the test results.
- 10. Design, develop, code and run the program in any suitable language to implement the binary search algorithm. Determine the basis paths and using them derive different test cases, execute these test cases and discuss the test results.
- 11. Design, develop, code and run the program in any suitable language to implement the quicksort algorithm. Determine the basis paths and using them derive different test cases, execute these test cases and discuss the test results.
- 12. Design, develop, code and run the program in any suitable language to implement an absolute letter grading procedure, making suitable assumptions. Determine the basis paths and using them derive different test cases, execute these test cases and discuss the test results

Study Experiment / Project:

- 1. Design, develop, code and run the program in any suitable language to solve the triangle problem. Analyze it from the perspective of dataflow testing, derive different test cases, execute these test cases and discuss the test results.
- 2. Design, develop, code and run the program in any suitable language to solve the Nextdate problem. Analyze it from the perspective of decision table-based testing, derive different test cases, execute these test cases and discuss the test results.

Course outcomes: The students should be able to:

- Understand requirements for the given problem
- Design and implement the solution for given problem in any programming language(C,C++,JAVA)
- Discuss test cases for any given problem
- Apply the appropriate technique for the design of flow graph.
- Create appropriate document for the software artefact.

Conduction of Practical Examination:

- 1. All laboratory experiments are to be included for practical examination.
- 2. Students are allowed to pick one experiment from the lot.
- 3. Strictly follow the instructions as printed on the cover page of answer script for breakup of marks
- 4. Procedure + Conduction + Viva: **15** + **70** + **15** (**100**)
- 5. Change of experiment is allowed only once and marks allotted to the procedure part to be made zero

https://hemanthrajhemu.github.io