

ICT 3143 Embedded Systems LAB Evaluation Details
B. Tech (CCE), V semester, JUN-NOV 2025

Lab no.	Lab Task	Evaluation	Marks
Lab 0	Introduction		
Lab 1	Data transfer		
Lab 2	Arithmetic instructions		
Lab 3	Code conversion ,	Quiz (Lab1 to Lab 3)	5 marks
LAB 4	Sorting and Searching, Stack	Record (Lab1 to lab4)	4 marks
Lab 5	Introduction to embedded C programming	Midterm Evaluation: portion: Lab1 to Lab5, Followed by Lab 6 conduction	15marks (1hr , writeup(8mark)+ execution(7marks))
Lab 6	LED interfacing		
Lab 7	Multiplexed Seven Segment interfacing	Mini-project Briefing*	
Lab 8	LCD and Keyboard Interfacing	Quiz (Lab 6 to Lab 8) Project Synopsis Submission	5 marks 2 marks
Lab 9	ADC , Miniproject work	Record: Lab 5-lab 8 Follow up on project progress	4 marks
Lab 10	PWM, Miniproject work	Follow up on project progress	2 marks
Lab 11		End SEM exam Record: Lab 9-lab 10	40 marks 4 marks
Lab 12	Mini Project Evaluation	Mini Project Evaluation	16 marks

* Project Details will be briefed during the lab hours. Project progress evaluation will be continuous.

- 3 marks for Program execution/Viva and will be checked twice and it can be conducted randomly on any lab day. The program check/viva will not be repeated in case the student is absent.
- Midterm Evaluation: Writeup (8M) + Program Execution (7M)
- Project: 20 M (Report (5)+ Viva (5)+ PROGRESS EVALUATION (4)+Demo(6))
- End Sem: Write up (25marks) + Execution (15marks)
- Record of exercise questions must be written neatly with appropriate comments and proper input/output.
- As part of project, students will be grouped in teams of 3 members. Evaluation of Project will be done based on synopsis submission, weekly progress, report submission, demonstration, and viva. Further information regarding project work will be communicated in due time.
 - If there are any changes in the evaluation details or other information, it will be communicated during lab hours.

