Vidyavardhini's College of Engineering & Technology, Vasai (W)

First Year Engineering

Academic Year: 2024-25

Subject: BSC102/AP Assignment No: 01 Date: 11/10/2024

Max. Marks: 10 Duration: 1 Hr

CO 1: Illustrate the use of laser in LiDAR and Barcode reading.

Q.	Questions	Marks	CO	CL
No.				
1	Explain the basic quantum processes in laser.	3	1	2
2	Explain active medium, resonating cavity, and pumping mechanism for laser.	2	1	3
3	Explain Helium-Neon Laser with energy level diagram.	3	1	2
4	Explain any one application of laser.	2	1	3

Rubrics for the Assessment

Performance Indicator	Exceed Expectations (EE) (10)	Meet Expectations (ME) (7)	Below Expectations (BE) (4)
Completeness	The entire assignment/tutorial was completed before deadline specified.	The assignment/tutorial was completed on deadline.	Partial/late submission of assignment/ tutorial.
Demonstrated Knowledge	Shows complete understanding of the questions, mathematical ideas, and processes.	Shows considerable understanding of the problem, ideas, and processes.	Response shows a complete lack of understanding for the problem.
Legibility	Very neat. Writing illustrates a lot of thought and preparation.	Mostly neat and legible. Writing illustrates some thought and preparation.	Not legible. Hard to read. Ideas expressed are difficult to understand.