PVP20

Department of Freshman Engineering

Engineering Physics Lab

Course		20BS1152		Year			Ι		Sem	Semester		Ι			
Code															
Course		Basic Science		Branch]	IT		Course Type		Theory				
Category															
Credits			1.5		L-T-P				0-0-3		Prerequisites		Nil		
Continuous			15		Semester End			-	35	Tota			50		
Internal Evaluation		•			Evaluation		1			Mar	Marks				
Lvalu	atio	1				C	ourso	Outcor	noc						
Unon	SUCC	essful c	ompletio	n of th	e cour					to					
CO1	1		-								gnetic pa	arameter	rs. [L3]		
CO2	_	emonstrate the importance of dielectric material and measure magnetic parameters. [L3] entify the type of semiconductor using hall effect and measure the energy band gap. [L3]													
CO3		amine the characteristics of photodiode, p-n junction diode and solar cell. [L4]													
CO3													noo and		
C04		seess the intensity of the magnetic field of circular coil carrying current with distance and													
005		easure resistance using four probe method. [L4]													
CO5		timate the acceptance angle of an optical fiber and numerical aperture. [L4]													
CO6															
Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:High, 2: Medium, 1:Low)															
	PO	PO2			PO5	PO6	PO7	PO8	, 2: Me PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	I PU.	2 PO5	3	POS	PU0	PU/	PU8	P09	POIU	POII	2	F301	F302	
CO1 CO2	3			3								2			
CO3	3			3								2			
CO4	3			3								2			
CO5	3			3								2			
CO6	3			3								2			
							Syll	abus							
Expt.		Syllabus												Mapped CO's	
No		-													
1			nine the I										CO1,CO6		
2			nine the l										,		
3			nine the l							iment.			CO2,CO6		
4 5			nine the I the chara												
6			ate the V-							ode			CO3,CO6		
7			the V-I cl					3		Juc.			CO3	,006	
8			nine The						of a (Circular	Coil ca	rrving			
5		curren			···- *						00	58	CO4,CO6		
9			nine the I	Resistiv	vity of	Semic	onduc	to <u>r b</u> y l	Four Pr	obe Me	thod.				
10	10 Determine the Numerical Aperture of a given Optical Fibre and Find its								ind its	CO5,CO6					
Acceptance Angle.												005	003,000		
						Lea	arning	Resou	rces						
Text I				1 37'		1	1	1 5	1	AAT 1			- · ·		
1.			ri, Choud				1 Pras	ad Da	iruka,	''Lab	Manual	of E	Engineeri	ng	
	Pny	/SICS V	/th ed., E	xcell B	ooks,	2010									

Department of Freshman Engineering

Reference Books	
1. Semiconductor Devices & Physics, S.M.Sze,Wiley,2008.	
e- Resources & other digital material	
1. https://nptel.ac.in/courses/115/105/115105120/	
2. https://nptel.ac.in/courses/115/107/115107095/	
3. https://nptel.ac.in/courses/115/104/115104109/	
4. http://www.physicsclassroom.com/The-Laboratory	
5. https://www.vlab.co.in/broad-area-physical-sciences	
6. https://www.niser.ac.in/sps/teaching-laboratories	