	4. Collimation of Laser Light. 5. Study of Raman Laser system.	
Total		48
Pedagogy:	Lectures/presentation/assignments	
References/Readings	1. Optical Electronics, 4th Edition by A. Yariv, HRW publication, . 2. OptoElectronbics , by Ghatak and Tyagarajan TMH Publication .	
Learning Outcomes	The student has sufficient knowledge of lasers for applications involving medical treatment as well as defense needs. They will have a full knowledge of classification of lasers and its usage. Now a days, most of the industries use high power lasers as a tool, the student with this knowledge will be handy in guiding the work force for safe use of laser.	

Course Code: ELC 402
Title of the Course: ELECTRONICS PRACTICALS - IV
Number of Credits: 4

Prerequisites for the course:	Should have studied EDA Tools .	
Objective:	• The course is intended to introduce to the students with LabVIEW and SPEEDY 33 Boards and MYRio BThoard • Also there are few labs on Altera DE2 Board using NIOS II soft core Prosessor.	
Content:	1. Reading from flash using DE2 board 2. LCD and 7 segment Interfacing using DE2 board 3. PS/2 Mouse Interface on DE2 board 4. UART Interface using DE2 board 5. Blinking of LEDs using RTOS on DE2 Board. 6. KEY pad and ADC interfacing using RTOS 7. Echo implementation on speedy33 kit(lab view) 8. Reverberation implementation on speedy33 kit(lab view) 9. IOT (3 experiments) 10. My RIO(3 experiments)	
Total		96
Pedagogy:	Presentation and Laboratory works	
Learning Outcomes	After completion of this course on practical they will be able to develop and design some applications based on SPEEDY 33 using LABView , MYRio, Altera DE2 Board	