Course Title	PHYSICS LAB III
Course Code	MPHY-263
Credit Hours	CH 1
Pre- requisites	MPHY-231
Learning outcomes	To train students in performing experiments related to modern physics
Contents	Modern Physics: Measurement of wavelengths of laser light by using Michelson interferometer, The determination of Cauchy's constants using spectrometer, To determine e/m of an electron using a fine beam tube, To measure Planck's constant by studying photoelectric effect, To measure the critical potential of mercury by Frank-Hertz method, To study the Black-Body radiation, To study the characteristics curve of solar cell, Neon flash bulb experiment, Ionization potential experiment, Millikan oil drop experiment, speed of light experiment. *Note: Any eight experiments must be performed subject to the availability of apparatus.
Teaching-learning Strategies	Classroom teaching / Lecturing, practical
Assignments- Types and Number	Problem sheet, 3-4, Experimental write-up, data analysis and data plotting, observations and calculations etc.,
Assessment and	Mid-Term Assessment: 35%
Examinations	Formative Assessment: (25%): It includes classroom participation, attendance, assignments and presentations, homework, attitude and behavior, hands-on-activities, short tests, quizzes etc. Final Term Assessment: 40%
Text Books	 Physics laboratory experiments by J. D. Wilson, Cengage Learning (2014). General Physics Laboratory I Experiments by K. Clara Castoldi, Kendall Hunt, (2015). Physics Lab Experiments by M. French, Mercury Learning & Information, (2016). Experiments And Demonstrations In Physics: Bar-ilan Physics Laboratory by Kraftmakher Yaakov, World Scientific (2014).