S.No. : **Date:**

Physics & Electronics Labs

The College has Four Labs, one for M.Sc. Students, Two for B.Sc. Students and one Spectroscopy Lab for U.G. and P.G. Students. The College understands the need for a state-of-the-art laboratory for physics with updated and calibrated equipment for inquisitive students who are willing to create new collective knowledge and foster the next generation of scientific leaders. The physics labs are well equipped with apparatus such as to help students take part in various experiments related to their syllabus.

P.G. Lab

In M.Sc. Lab we have nearly all the apparatus as per the syllabus, a few to mention are: Zeeman Effect Experiment, Ultrasonic Interferometer, G. M. Counter, Microwave Test Bench, Hall Effect Experiment, Four-Probe Setup, ESR experiment, NMR Experiment, Oscilloscopes, Michelson Interferometer, Frank-Hertz experiment. The electronics Experiments available for M.Sc. students, to mention a few are R.F. Oscillator, Rectifier, A to D and D to A, Hartley and Colpitt Oscillator, Multivibrator, RC-coupled Amplifier, De-Sauty bridge, High and Low Pass filters, FET, Wien Bridge Oscillator.

(Dr. Vijaykumar S. Shukla)
H.O.D.

Dr. Mahesh Hapawat, Principal

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(Dr. Mahesh Hapawat)
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Shri Bhawani Niketan PG College

(Run by Shri Bhawani Niketan Shiksha Samiti)

Sikar Road, Jaipur

Department of Physics

S.No. : **Date:**

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U.G. Lab

Our U.G. labs are well equipped with nearly all the experiments as prescribed in the syllabus. To mention a few amongst them are: Flywheel, G to A and G to V, Carey-Foster Bridge, RC-circuit, LC-circuit, LCR circuit, Rectifier, Electromagnetic Damping, Viscous Fluid Damping, Compound Pendulum, Faraday's Experiment, Young's Modulus Experiment, Maxwell Needle, Study of elastic behaviour of spring, Op-amp, Voltage Multiplier, Zener Diode Experiment, Logic gates, Band gap, Thermal radiation, RC transmission line, Transistor Experiments.

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Spectroscopy Lab

Our Spectroscopy Lab is rich with experiments like Zeeman Effect Experiment, Planck's constant, Stefan's constant, Newton's ring, grating, prism experiments, Spectrometers, Telescope, Biprism, polarimeter, e/m determination apparatus where one can actually see the cathode beam movement.

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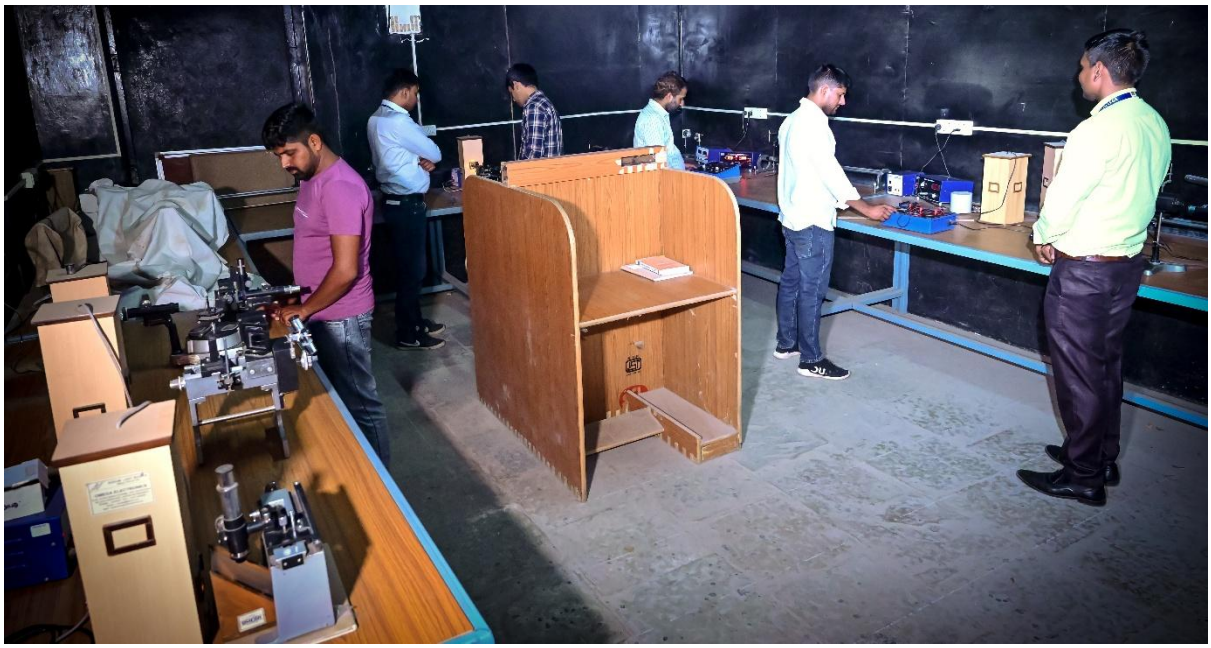

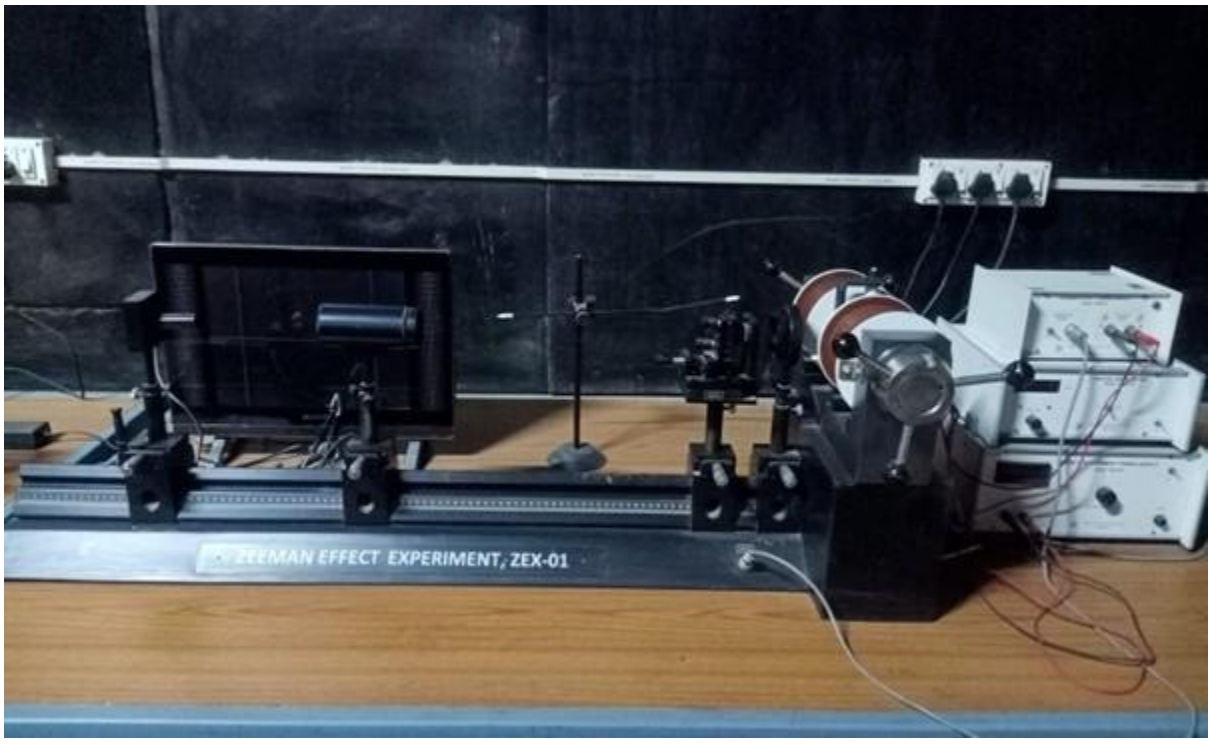

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