St. Aloysius' College (Auto.), Jabalpur
Department of Physics
Certificate Course on
"Experimentation Through Virtual Lab (ExpEyes)"

Credit: 2   **Time Duration: 30 Hrs**.

Course Outcome

The students are expected to acquire the knowledge of the following:

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- ExpEye Kit and Interface
- Idea of Python
- Visualization of simple experiments

	Paper	Maximum Marks	Minimum Marks	Total Marks
I	Theory	50	20	100
II	Practical	50	20	

Unit I

Introduction of Virtual Lab: ExpEyes Kit, Materials, Sources and connectors, Connecting sources with ExpEyes Kit.

Unit II

Introduction of Softwares : Ubuntu, ExpEyesJunior, Python , LxTerminal

Unit III

Interface of ExpEyes Junior : Experiments, Data Extraction , Saving files, Visualization, Limitations.

Unit IV

Working with Python : Importance of Python, Simple Programs, connectivity of Kit with Python.

Unit V

Experiments : Producing Sinusoidal Waves , Study of V-I characteristic curve of Diode , Study of LDR, Charging and discharging of capacitor in RC and LCR circuit.

Note : Students who have passed XII with Science are eligible to join the course

Unit will consist of 6hours of tutorials and hand on exercises.

Reference: Lab Manual prepared by IUAC, New Delhi.