



Criterion 3- Infrastructure & Resources

3.7 Laboratory Facilities

3.7.1 Laboratories with adequate equipment according to syllabi

Yes





Maharana Pratap Govt. Degree College Amb
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BOTANY LAB



PHYSICS LAB



Zoology Lab

Science Block (Building No. 3)



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ZOOLOGY DEPARTMENT

Maharana Pratap Govt. College Amb Distt Una (H.P.)
Zoology Department

| Sr. No | Type of Practical | Apparatus Available Yes/No | Stock Register Entry Page No | U.G.C Register Entry Page No |
|--------|-------------------|-------------------------------|--|---------------------------------|
| 1 | Slides | Yes | 01 to 03, 57, 58, 78, 50, 82 | 11 to 15 |
| 2 | Specimens | Yes | 04 to 20 39 to 50 59 to 62 76, 77, 81 83 to 105, 142 | 16 to 26 33, 34 |
| 3 | Microscopes | Yes | 122 | 02, 03, 07, 08 27, 35 |

Dr. Rakesh Kumar
(Laboratory Attendant)

Dr. Shreeta Kumari
(HOD, Zoology Deptt)

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BOTANY DEPARTMENT

Maharana Pratap Govt. College Amb Distt Una (H.P.)
Botany Department

| Sr No | Type of practical | Apparatus Available Yes/No | Stock Register Entry Page No | U. G. C Register Entry Page No |
|-------|---|-------------------------------|---------------------------------|-----------------------------------|
| 1 | Slides | Yes | 17, 19, 22 | |
| 2 | Specimens | Yes | 27, 29, 31, 33 | |
| 3 | Microscopes | Yes | 116 | 01, 02, 04 |
| 4 | Usha lens oker | Yes | | 06 |
| 5 | PH Meter Pen Type | Yes | 19 | |
| 6 | Concave lens | Yes | 48 | |
| 7 | Convex lens | Yes | 42 | |
| 8 | Crystal | Yes | 108 | |
| 9 | Over Head projector Well Screen for Over Head projector | Yes | 117 | |

Sh. Rakesh Kumar
(Laboratory Assistant)

Dr. Nisha K. Sharma
AP Botany

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CHEMISTRY DEPARTMENT

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| Class | Sr.No. | Type of Experiment | Appratus Available (Yes/No) | Stock Register-1 page No | Stock Register-2 page No |
|----------|--------|--------------------------------------|-----------------------------|--------------------------|----------------------------|
| B.Sc-I | 1. | Titration | Yes | - | 128,129,139,141,130,14,140 |
| | 2. | Crystallization | | 51 | 17 |
| | 3. | Viscometry | | - | 119 |
| | 4. | Surface tension Analysis | | - | 54 |
| | 5. | Organic compound analysis | | - | 128,129,139 |
| B.Sc-II | 1. | Calorimeter | Yes | - | 64 |
| | 2. | Inorganic Analysis | | 20,31 | - |
| | 3. | Conductometry | | - | 21 |
| | 4. | Chromatography | | 47 | - |
| | 5. | Organic Synthesis | | - | 128,129,139 |
| B.Sc-III | 1. | Inorganic synthesis and Conductivity | Yes | 49 | - |
| | 2. | Paper Chromatography | | 47 | - |
| | 3. | Colorimetry | | 21 | - |
| | 4. | Polymer synthesis | | 51 | 128,129,139,17 |

1. Fern
2. Jas

Taxem Lal (LA)

Principa
9-10-2024
Maharana Pratap Govt.
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PHYSICS DEPARTMENT

| Maharana Pratap Govt. Degree College Amb District Una HP-177203 <small>www.mpgcamb.com govtcollegeamb@gmail.com mprcamb@gmail.com 01976-260032</small> | | (First Year) | |
|--|---|---------------------------|-------------------------|
| Sr. No. | Name of Experiments | Appartus Available (Y/N) | Stock Register Page No. |
| 1 | To determine the length of an object(say a solid cylinder) using vernier calliper | YES | 77 |
| 2 | To determine the diameter of a solid cylinder or sphere using vernier calliper | YES | 77 |
| 3 | To determine the diameter of a thin wire using a screw gauge | YES | 88 |
| 4 | To measure the height of an accessible object (Using Sextant) | YES | 63 |
| 5 | To measure the height of an unaccessible object(Using Sextant) | YES | 63 |
| 6 | To determine the moment of inertia of a fly wheel | YES | 16 |
| 7 | To determine the value of 'g' by a bar pendulum | YES | 58 ,15 |
| 8 | To determine the value of acceleration due to gravity at a place by kater's pendulum | YES | 58,21 |
| 9 | To use multimeter for measuring (a) Resistance ,(b) AC and DC voltage , (c) DC current and (d) checking electrical fuses | YES | 37 |
| 10 | To study the a series LCR circuit and determine its (a) Resonant Frequency ,(b) Quality Factor | YES | 20 |
| 11 | To study a parallel LCR circuit and dertermine its (a) Anti-resonant frequency and (b) Quality factor Q | YES | 21 |
| 12 | To determine unknown capacitance by flashing and quenching method | YES | 9 |
| 13 | To find frequency frequency of ac supply using an electrical vibrator | YES | 7 |
| 14 | To study the characteristics of a series of RC circuit | YES | |

1 Prof. Rekha Sharma *Rsharma* 2.Prof. Amit Kumar Sharma *AKS*
3 Prof. Sureta *Shureta* 4.Dr. Rajneesh Kumar *RJK*
5 Mr. Vinod Kumar(LA) *Vinod*

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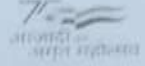
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| PHYSICS LAB | | (Second Year) | |
|-------------|---|---------------------------|-------------------------|
| Sr. No. | Name of Experiments | Appartus Available (Y/N) | Stock Register Page No. |
| 1 | To determine the coefficient of thermal conductivity of a bad conductor by lee and charlton's disc method | YES | 19 |
| 2 | To prove the law of probability by using one coin , two coin , 10 or more coins . | YES | 38 |
| 3 | To study the spectral characteristics of photo - voltaic cell | YES | 7 |
| 4 | To study the current voltage , power load , areal azimuthal and spectral characteristics of a photo voltaic cell | YES | 7 |
| 5 | To verify inverse square law of radiation using a photoelectric cell | YES | 60 |
| 6 | Familiarization with Schuster's focussing ; determination of angle of prism (Spectrometer) | YES | 72,39 |
| 7 | To determine the refractive index of the material of the given prism using sodium light (Spectrometer) | YES | 72,39 |
| 8 | To determine the value of Cauchy constants of material of a prism (Spectrometer) | YES | 72,39 |
| 9 | To determine the Dispersive power and resolving power of the material of a given prism using mercury light (Spectrometer) | YES | 39 |
| 10 | To determine wavelength of sodium light using Newtons rings (Spectrometer) | YES | 39,47 |
| 11 | To determine the resolving power of a plane diffraction grating (Spectrometer) | YES | 39,31 |
| 12 | To find the refractive index of glass slab using travelling microscope | YES | 18,13 |
| 13 | To determine the magnifying power of a telescope | YES | 18 |

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3 Prof. Sureta *Sureta* 4.Dr. Rajneesh Kumar *Rajneesh*
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| PHYSICS LAB | | (Third Year) | |
|-------------|--|---------------------------|-----------------------|
| S. No. | Name of Experiments | Appartus Available (Y/N) | Stock Regist Page No. |
| | To determine value of Boltzmann constant using V-I characteristics of PN diode | YES | 36 |
| | To determine value of plank's constant using LEDs of at least 4 different colours | YES | 14 |
| | To determine the ionization potential of mercury | YES | 11 |
| | To verify the inverse square law by using photo voltaic cell | YES | 60 |
| | To measure the DC voltage by using CRO | YES | 29 |
| | To display the action of junction diode as (a) half wave rectifier and (b) full wave rectifier using CRO | YES | 29 |
| | To study the characteristics of FET | YES | 1 |
| | To find energy gap of a semiconductor | YES | 50 |
| | To study the characteristics of zener diode | YES | 33 |
| | To study the voltage regulating using zener diode | YES | 34 |
| | To study the characteristics of PNP transistor | YES | 14 |
| | To study the characteristics of NPN Transistor | YES | 15 |
| | (a) To draw forward And reverse bias characteristics for a PN junction diode and draw a load line (b) study of a diode as a clipping element | YES | 16 |

Prof. Rekha Sharma *R Sharma* Prof. Amit Kumar Sharma *Amit*
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