

Maharana Pratap Govt. Degree College Amb-177203

District Una HP



Co-Educational Institution

Affiliated to Himachal Pradesh University Shimla – 5

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Self-Assessment Report

SAR 2024-25

Criterion 3: Infrastructure & Resources

Sub Criterion 3.7 Laboratory Facilities

3.7.1 Laboratories with adequate equipment according to syllabi

3.7.1 Laboratories with adequate equipment according to syllabi





ZOOLOGY DEPARTMENT

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

Sl. 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

Raj Kumar
Sh. Rakish Kumar
(Laboratory Attendant)

Shruti
Dr. Shruti Kumari
(HOD, Zoology Deptt)

Principal
Principal
Maharaja Pratap Govt.
Degree College
Amb (Una, H.P.)

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	Washbottles etc	Yes		06
5	PH Meter Pen Type	Yes	19	
6	Genomgels Potometer	Yes	48	
7	Farmer's Potometer	Yes	42	
8	ClinoStat	Yes	108	
9	Over Head Projector Well Screen for Over Head Projector	Yes	117	

Sh. K. Kumar

Sh. Rakesh Kumar
(Laboratory Assistant)

Dr. Nishu K. Sharma
AP Botany

Principal
Maharana Pratap Govt.
Degree College
(Una, H.P.)

CHEMISTRY DEPARTMENT



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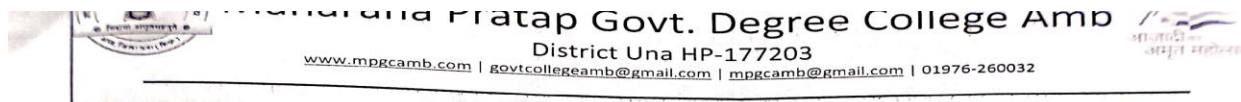
Class	Sr.No.	Type of Experiment	Appratus Available (Yes/No)	Stock Register-1 page No	Stock Register-2 page No
B.Sc-I	1.	Titration	Yes	-	128,129,139,141,130,14, 140
	2.	Crystallization		51	17
	3.	Viscometry		-	119
	4.	Surface tension Analysis		-	54
	5.	Organic compound analysis		-	128,129,139
B.Sc-II	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. 12/10/2021
2. 12/10/2021

Taxem Lal (LA)

9.10.2021
Principal
Maharana Pratap Govt.
Degree College
Amb (Una, H.P.)

PHYSICS DEPARTMENT



PHYSICS LAB		(First Year)	
Sr. No.	Name of Experiments	Appartus Available (Y/N)	Stock Register Entry 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 *R Sharma* 2.Prof. Amit Kumar Sharma *AKS*
 3 Prof. Sureta *Sureta* 4.Dr. Rajneesh Kumar *Rajneesh*
 5 Mr. Vinod Kumar(LA) *Vinod Kumar*

[Signature]
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PHYSICS LAB

(Second Year)

Sr. No.	Name of Experiments	Appartus Available (Y/N)	Stock Register Entry 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

1 Prof. Rekha Sharma

2.Prof. Amit Kumar Sharma

3 Prof. Sureta

4.Dr. Rajneesh Kumar

5 Mr. Vinod Kumar(LA)

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PHYSICS LAB		(Third Year)	
Sr. No.	Name of Experiments	Appartus Available (Y/N)	Stock Register Entry Page No.
1	To determine value of Boltzmann constant using V-I characteristics of PN diode	YES	36
2	To determine value of plank's constant using LEDs of at least 4 different colours	YES	14
3	To determine the ionization potential of mercury	YES	11
4	To verify the inverse square law by using photo voltaic cell	YES	60
5	To measure the DC voltage by using CRO	YES	29
6	To display the action of junction diode as (a) half wave rectifier and (b) full wave rectifier using CRO	YES	29
7	To study the characteristics of FET	YES	1
8	To find energy gap of a semiconductor	YES	50
9	To study the characteristics of zener diode	YES	33
10	To study the voltage regulating using zener diode	YES	34
11	To study the characteristics of PNP transistor	YES	14
12	To study the characteristics of NPN Transistor	YES	15
13	(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

1 Prof. Rekha Sharma *Rsharma*
3 Prof. Sureta *Sureta*
5 Mr. Vinod Kumar(LA) *Vinod*

2:Prof. Amit Kumar Sharma *AS*
4.Dr. Rajneesh Kumar *Ra*

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Convener
Convener IQAC



Sd
Principal
M. P. Govt. College, Amb
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