

Completion Report
(31/08/2020 to 29/02/2024)

Department of Biotechnology

- Name of the College : **K. N. Govt. P G College, Gyanpur, Bhadohi**
- Name of Coordinator, designation, Address, Phone nos.- **Dr. Rashmi Singh**, Assistant Professor
Department of Botany, 9415447808

S.N.	Department	Name of coordinator	Designation	Mobile no.
1	Botany	Dr. Rashmi Singh	Assistant Professor	9415447808
2	Chemistry	Dr. Abhimanyu Yadav	Assistant Professor	8517866497
3	Physics	Dr. Kalpana Awasthi	Assistant Professor	8418957246
4	Zoology	Mr. Ratnesh Soni	Assistant Professor	9415153338

- (A) Assessment duration : **31/08/2020 to 29/02/2024** (B) Duration in years : **3.6 Years**
(C) Extension period if any: **6 months** (31.08.2023 to 29.02.2024)

4. Details of Departments Supported

S.N	Name of Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc) offered	Regular Faculty members Total, with Ph.D. and without Ph.D
1	Botany	B.Sc. and M.Sc.	Total: 07; Ph.D.: 07; without Ph.D.: 00 Dr. Rashmi Singh, Ph.D., NET Dr. R.K. Pandey, Ph.D., NET Dr. Saumya Mishra, Ph.D., SLET Dr. Suman Gupta, Ph.D. Dr. Shefali Singh, Ph.D, NET Dr. Ravi Kumar Yadav, Ph.D., NET Dr. Gita Yadav, Ph.D
2	Chemistry	B.Sc. and M.Sc.	Total: 12 ; Ph.D.: 08 ; without Ph.D.: 04 Dr. V.K. Yadav, Ph.D., NET Dr. Abhimanyu Yadav, Ph.D., NET Dr. Rajneesh Dwivedi, Ph.D Dr. Arvind Kumar Pandey, Ph.D, NET Mr. Dheerendra Kumar, NET Dr. Siddharth Barnwal, Ph.D, NET Dr. Deepali Jaiswal, Ph.D, NET Dr. Shikha Mehta, Ph.D, NET Dr. Jyoti Tiwari, Ph.D, NET Mr. Nikhil Kumar Singh, NET Ms. Jyoti Maurya, NET Mr. Amit Kumar Sharma, NET
3	Physics	B.Sc. and M.Sc.	Total: 09 ; Ph.D.: 04; without Ph.D.: 05 Dr. Kalpana Awasthi, Ph.D., GATE Dr. Priyanka Srivastava, Ph.D. Mr. M.K. Vishwakarma, M.Sc., NET Dr. S.P. Mishra, Ph.D. Dr. Sadanand Singh, Ph.D Mr. Ashish Verma, NET Mr. Akhilesh Kumar, NET Mr. Jais Kumar, NET Mr. Dhanajay Gaur, NET
4	Zoology	B.Sc. and M.Sc.	Total: 05 ; Ph.D.: 02; without Ph.D.: 03 Dr. Anju Verma, Ph.D., NET Mr. Ratnesh Soni, M.Sc., NET Dr. Deepak verma, Ph.D., NET Mr. Vivek Verma., NET Ms. Aaknksha Kushwaha, NET

6. Qualitative improvements due to DBT support. Please highlight 5 salient points (within 500 words).

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7. Any Novel aspect introduced or planning to introduce during the Scheme duration.

There was no concept of organizing winter school/summer school before the implementation of this scheme. After procuring new instruments from this scheme, now minor research projects at undergraduate level are introduced. Both these activities orient the students towards research.

8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant. (Max 3 points within 300 words).

As we don't have any dedicated section of accounts in our College, change in transaction portal for grant affect the scheme in my college. We were not able to consume the grant in time frame.

- ## 9. Key performance indicators

S. no	Indicator	Pre-support								During /After Support								Remarks
1	No. of students admitted	Total =908								Total =1445								
		M= 506				F=402				M=578				F=867				
		SC-48	ST-00	OBC-263	G-195	SC-22	ST-00	OBC-219	G-161	SC-44	ST-00	OBC-284	G-250	SC-36	ST-00	OBC-465	G-366	
2	No. of students passing out (%) Students Admitted/passing out (pass %)	93.7 %								97.2								
3	Drop-out rates	15%								8%								

4	No. of students opting for MSc	100	150	
5	Average marks	70	75	
6	No. of hands-on experiments being conducted	00	16 (Appendix-I, 1)	
7	No. of new experiments introduced	00	19 (Appendix-I, 2)	
8	Publications (scopus indexed) /patents, if any.	35	47 (Appendix-I, 3)	
9	Training received by faculty	24	33 (Appendix-I, 4)	
10	Exhibitions/seminars /training courses conducted	00	12 (Appendix-I, 7)	
11	Books/journals subscribed from grants	400	471 (Appendix-I, 11)	
12	Outreach activities (Popular lectures)	00	05 (Appendix-I, 9)	
13	Colleges mentored to apply for DBT Star College grants	00	00	
14	Invited lectures	00	12 ((Appendix-I, 10)	

10. Details of colleges / schools mentored during the Star Scheme Tenure (Name of college / school; class / standard; No. of students benefited; whether any mentored college applied under Star College Scheme, if yes what was the outcome.

1. Vibhuti Narayan Government Inter College, Gyanpur, Bhadohi- Number of Students benefitted=50
2. Woodard Public School, Bhadohi- Number of Students benefitted= 60
3. Keshav Prasad Mishra Govt. Girls Degree College- Number of Students benefitted= 50

11. Details of increase in the faculty generated resources viz extramural research grants from other funding agencies to strengthen the Star College Scheme efforts.

The grant received under DBT Star College Scheme strengthen Undergraduate laboratory and as the student learn new practical, we faced challenge for postgraduate science laboratory. So we have applied for DST-FIST and received grant of Rs.1.17 crore (**Annexure-**). The advance instrument purchased under this scheme maintained the momentum of research activity at Post graduate level.

12. SOPs developed, lab manuals created and uploaded on website or submitted to DBT.

13. Self evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
Chemistry	11. Organized invited lectures	90	1.8
	12. Field visit	100	2.0
	13. Hands on training , Quiz and poster	70	1.7
	14. training for laboratory staff.	50	1.0
Physics	• Invited lectures	100	2.0
	• Workshops	80	1.8
	• Hands on training	100	2.0
	• Field Visit	100	2.0
	• Interdisciplinary Project	60	1.6
	• Workshop for supporting staff	90	1.9
	• Winter School	100	2.0
	• Essay Competition and Quiz Competition	100	2.0
Botany	• Invited lectures	90	1.9
	• Workshops	60	1.6
	• Hands on training	100	2.0
	• Field Visit	100	2.0
	• Interdisciplinary Project	60	1.6
	• Workshop for supporting staff	100	2.0
	• Winter School	100	2.0
	• Essay Competition/ Science Exhibition and Quiz Competition	100	2.0
Zoology	• Invited lectures	50	1.0
	• Workshops	100	2.0
	• Hands on Training	100	2.0
	• Field Visit	100	2.0
	• Essay Competition/ Science Exhibition and Quiz Competition	60	1.8

11. Details of the procured equipment (as per submitted asset certificate) which would be retained by the college after completion of the project for future research and academics as Annexure-I with request letter for the retention of procured equipment.

Details of Capital Assets Acquired During the Period

(Financial figures given in this CAAC are shown in lakhs)

S. No.	Name of Equipment/ Asset	Sanctioned Cost	Quantity Procured	Actual Cost (Actual figure, not to roundoff)	Date of Placing order	Date of Receiving Equipment	Payment Voucher No. with Date (Copy of payment voucher(s) may please be enclosed)	Balance to be reimbursed [Provide reason(s) for fluctuation in price (if any)]
	1	2	3	4	5	6	7	8
Sanctioned Equipment/Asset								
Department of Chemistry								
a.	UV lamp with chamber & optional accessories	10.0	01	00.21800 00.02600	10/03/21	18/03/2021	BP-2020-21-7	
b.	PTFE magnetic stir bar		01					
c.	Digital Potentiometer		25	00.10500	10/03/21	18/03/2021		
d.	Flame photometer digital		03	00.40500	10/03/21	18/03/2021		
e.	Thermostat complete set up		03	01.95000	10/03/21	18/03/2021		
f.	Calorimeter complete set up		01	00.47500	10/03/21	18/03/2021		
g.	Viscometer		05	00.49000	10/03/21	18/03/2021		
h.	Laboratory borosilicate Dessicator		140	00.38500	10/03/21	18/03/2021		
			10	01.12500	10/03/21	18/03/2021		

i.	Micropipette 0.5 mL, 1 mL		12	00.54000	10/03/21	19/03/2021		
j.	Vacuum pump		1	00.47000	10/03/21	19/03/2021		
k.	Saturated Calomel electrode		2	00.04800	10/03/21	19/03/2021	<u>BP-2020-21-10</u>	
l.	Bright Platinum electrode		2	00.12400	10/03/21	19/03/2021		
m.	Automatic sprayer		15	00.26250	10/03/21	19/03/2021		
n.	Wheatstone bridge		2	00.47000	10/03/21	19/03/2021		
o.	Electronic weighing machine		2	00.24400	10/03/21	19/03/2021		
p.	Stalagmometer 25 cm		160	00.49600	10/03/21	19/03/2021		
q.	RD bottle 25 mL		160	00.12800	10/03/21	19/03/2021		
r.	Laboratory Thermometer		30	00.03300	10/03/21	19/03/2021		
s.	Distillation unit (3 Ltr) Double stage		1	00.48000	10/03/21	20/03/2021	<u>BP-2020-21-8</u>	
	Total			Rs. 08.47450				
	CGST@9%+ SGST@9%			01.52541				
Grand Total (Department wise)				Rs. 9.99991				

S. No.	Name of Equipment/ Asset	Sanctioned Cost	Quantity Procured	Actual Cost (<i>Actual figure, not to round off</i>)	Date of Placing order	Date of Receiving Equipment	Payment Voucher No. with Date (<i>Copy of payment voucher(s) may please be enclosed</i>)	Balance to be reimbursed (<i>Provide reason(s) for fluctuation in price (if any)</i>)
	1	2	3	4	5	6	7	8
Sanctioned Equipment/Asset								
Department of Zoology								
a.	Spectrophotometer single beam (UV/VIS)	10.0	01	1.77500	10/03/21	19/03/2021	BP-2020-21-3	
b.	Western Blotting Apparatus Mini (8 X 7 cm Gel) Cassette with all accessories		02	00.75000	10/03/21	19/03/2021		
c.	Laboratory microscopes		32	02.99200	10/03/21	19/03/2021		
d.	Laboratory Microscope with Camera (Magnus Trinocular Microscope with MagCam DC-5		01	01.90000	<u>06/03/21</u>	20/03/2021	<u>BP-2020-21-2</u>	
e.	Micropipette tips (50µl)		05 pkt	00.06725	<u>06/03/21</u>	20/03/2021		
f.	Electrophoresis Mini Power Supply (50V, 100V, 150V,		3	00.46200	<u>10/03/21</u>	22/03/2021		

	200V, 250V & 100mA)						BP-2020-21-1	
g.	Micropipette (20 µl)		2	00.09000		22/03/2021		
h.	Micropipette (50 µl)		2	00.09000		22/03/2021		
i.	Micropipette (200 µl)		2	00.09000		22/03/2021		
j.	Micropipette (1000 µl)		2	00.9000		22/03/2021		
k.	Micropipette tips (200 µl)		2	00.03300		22/03/2021		
l.	Micropipette tips (500 µl)		3	00.06300		22/03/2021		
	Total			08.40225		19/03/2021		
	CGST ((9%)+ SGST (9%))			01.51240		19/03/2021		
Grand Total				Rs.09.91465 Paid: Rs. 991078.00				

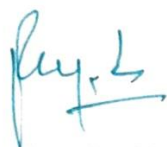
S. No.	Name of Equipment/ Asset	Sanctioned Cost	Quantity Procured	Actual Cost (<i>Actual figure, not to roundoff</i>)	Date of Placing order	Date of Receiving Equipment	Payment Voucher No. with Date (<i>Copy of payment voucher(s) may please be enclosed</i>)	Balance to be reimbursed (<i>Provide reason(s) for fluctuation in price (if any)</i>)
	1	2	3	4	5	6	7	8
Sanctioned Equipment/Asset								
Department of Botany								
a.	Digital pH meter		1	00.16000		19/03/2021	BP-2020-21-6	
b.	Drier		1	00.02190		19/03/2021		
c.	Magnetic stirrer		1	00.09700		19/03/2021		
d.	Automatic Sprayer		2	00.03600		20/03/2021		

e.	Chromatography paper	10.0	1pkt	00.09000		20/03/2021	<u>BP-2020-21-5</u>	
f.	Visible Spectrophotometer		1	00.68000		20/03/2021		
g.	Plant DNA isolation Kit		2	00.17800		20/03/2021		
h.	Stage Micrometer		2	00.07600		20/03/2021		
i.	Double Distillation Unit		1	00.68000		20/03/2021		
j.	Binocular laboratory microscope	10.0	04	02.27200		23/03/2021	<u>BP-2020-21-4</u>	
k.	Microscope with image analysing software		01	01.95000		23/03/2021		
l.	Ganong's photometer, Borosilicate glass		50	00.18900		23/03/2021		
m.	Wilmott's bubbler, Borosilicate glass		60	00.22680		23/03/2021		
n.	Ganong's respirometer, Borosilicate glass		53	00.20034		23/03/2021		
o.	Turbidity meter		01	00.17950		23/03/2021		
p.	Chromatography chamber with jar		01	00.28800		23/03/2021		
q.	Luxmeter, 50,000 Lux		02	00.16700		23/03/2021		
r.	Portable autoclave		01	00.17500		23/03/2021		
s.	Centrifuge with stepless speed control, with		01	00.26800		23/03/2021		

	digital speedometer							
t.	Arc Auxanometer		04	00.07260		23/03/2021		
u.	Clinostat		04	00.05280		23/03/2021		
v.	Incubator		01	00.20350		23/03/2021		
w.	Hot Air oven		01	00.20790		23/03/2021		
	Total			08.47134				
CGST ((9%)+ SGST (9%))				01.52484				
Grand Total (Department wise)				09.99618 Paid: 999617.00				

S. No.	Name of Equipment/ Asset	Sanctioned Cost	Quantity Procured	Actual Cost <i>(Actual figure, not to roundoff)</i>	Date of Placing order	Date of Receiving Equipment	Payment Voucher No. with Date <i>(Copy of payment voucher(s) may please be enclosed)</i>	Balance to be reimbursed <i>[Provide reason(s) for fluctuation in price (if any)]</i>
	1	2	3	4	5	6	7	8
Sanctioned Equipment/Asset								
Department of Physics								
a.	Curie Temperature Apparatus	10.0	1	00.56500	16/03/21	20/03/21	BP-2020-21-09	The amount remaining from other department (Rs. 00.09313) were transferred to Physics Department for purchasing of equipment.
b.	Maxwell’s needle setup		5	00.28000	16/03/21	20/03/21		
c.	Bending of beam		4	00.42800	16/03/21	20/03/21		
d.	Viscosity setup		2	00.14800	16/03/21	20/03/21		
e.	Telescope		1	00.32500	16/03/21	20/03/21		
f.	Nodal slide		3	00.70500	16/03/21	20/03/21		
g.	Sonometer apparatus		5	00.38750	16/03/21	20/03/21		
h.	Plank’s constant		2	00.42000	16/03/21	20/03/21		
i.	Diode Laser Kit		2	00.32000	16/03/21	20/03/21		

j.	Liquid lens apparatus		1	00.78000	16/03/21	20/03/21	BP-2020-21-11	
k.	p-n junction diode		8	00.47600	16/03/21	20/03/21		
l.	Four probe setup		01	00.21500	16/03/21	23/03/21	BP-2020-21-12	
m.	Stefan constant apparatus		02	00.14000	16/03/21	23/03/21		
n.	Bar pendulum with stop watch		04	00.23600	16/03/21	23/03/21		
o.	Surface tension setup		02	00.08450	16/03/21	23/03/21		
p.	Travelling microscope		02	00.47000	16/03/21	23/03/21		
q.	Polarimeter		02	00.49000	16/03/21	23/03/21		
r.	Melde's experiment		03	00.73500	16/03/21	23/03/21		
s.	p-n-p transistor		08	00.55600	16/03/21	23/03/21		
t.	Zener diode		05	00.33500	16/03/21	23/03/21		
u.	Hybrid parameter		05	00.45750	16/03/21	23/03/21		
	Total			08.55350				
CGST ((9%)+ SGST (9%))				01.53963				
Grand Total (Department wise)				Rs. 10.09313				



Prof. Ramesh Chandra Yadav
(Principal)

PRINCIPAL
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304



Dr. Rashmi Singh
(Project Co-ordinator)
Project Coordinator
DBT - Star College Scheme
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304

Appendix-I

1. Details of hands on training programme

Dates	Details of training programme	Practical demonstrated / training conducted by	Class and no. of Beneficiaries
Department: Zoology			
08/03/2021	How to handle Microscope	Dr. Shubha Srivastava Mr Ratnesh Soni	B.Sc. I (80)
08/03/2021		Dr Anju Verma Dr. Awadesh Singh Yadav	B.Sc. I (80)
09/03/2021	Demonstration of a compound microscope in biological sciences	Dr. Awadesh Singh Yadav Dr Anju Verma	B.Sc. II (60)
09/03/2021		Dr. Shubha Srivastava Mr Ratnesh Soni	B.Sc. II(40)
10/03/2021	To study the parts and uses of a compound microscope in biological sciences	Mr. Ratnesh Kumar Soni Mr. P. C. Gupta	B.Sc. III (40)
9/02/2022- 10/02/2022	Workshop on Hematology	Dr. Vivek Verma	B.Sc. II (160) 80+80
19/02/2022	Workshop on Micometry	Mr. Ratnesh Kumar Soni	B.Sc. I (180) 60+60+60
5/02/2022- 07/02/2022	Workshop on Bioinstrumentation: Principal & Application	Dr. Akanksha Kushwaha	B.Sc. III (75)
4/08/2023	Permanent slide preparation	Dr. Deepak Verma, R. Soni	B.Sc. II Sem (65)
5/8/2023- 6/08/2023	Qualitative analysis of Carbohydrate, protein and fat	Dr. Akanksha Kushwaha R. Soni	B.Sc. II Sem (184)
24/06/2023	Sequence analysis by using BLAST	Dr. Deepak Verma, R. Soni	B.Sc. IV Sem (80)
12/08/2023	Recording of BP using sphygmomanometer	Dr. Vivek Verma	B.Sc. II Sem (90)
Department: Botany			
12/03/2021	Handling and use of Microscope	Dr. Saumya Mishra Dr. Suman Gupta	B. Sc. I (80+80)
14/03/2021	Preparation of herbaria and herbarium techniques	Mr. Ranjeet Singh Dr. Ravindra Pandey	B.Sc. III (80)
25/10/2021- 31/10/2021	Instrumentation of Biological Tools	Dr. Saumya Mishra	B.Sc.I (85+85+85)
19/02/2022- 20/02/2022	Experiments of Plant Physiology	Mr. Neeraj Kumar Goswami	B.Sc.II (80+80)

23/02/2022-24/02/2022	BGA as Biofertilizer	Dr. Suman Gupta	B.Sc.I (70+70)
27/03/2023	Hydroponics	Dr. Ravi Kumar Yadav	B.Sc. IIIrd Sem (70)
05/08/2023	Separation of Amino Acids and Plant Pigment by Paper Chromatography	Dr. Shefali Singh	B.Sc. IV th Sem (70)
16/10/2023-17/10/2023	Plant Tissue Culture Technique	Dr. Ravindra Pandey Dr. Ravi Kumar Yadav	B.Sc. Vth Sem (90)
16/12/2023	Bioinformatics- Biological Data Analysis	Dr. Ravi Kumar Yadav and Dr. Shefali Singh	B.Sc. Vth Sem (60)
Department: Chemistry			
17/03/2021	Viscosity Measurement	Mr. H. K. Nirala, Dr. Abhimanyu Yadav	B.Sc. I (50)
17/03/2021	The students were able to know the percentage of unknown composition of two miscible liquids which depends on the rate of flow of liquid through viscometer.	Dr. Abhimanyu Yadav, Dr. Madhu Tiwari	B.Sc. I (50)
18/03/2021		Dr. Abhimanyu Yadav, Dr. Madhu Tiwari	B.Sc. I (50)
18/03/2021		Mr. H. K. Nirala, Dr. Abhimanyu Yadav	B.Sc. I (50)
24/03/2021	pH Measurement: Effect of contamination on pH of drinking water by measuring the pH of water from different places such as well, pond and tap water etc.	Dr. Abhimanyu Yadav, Ayyub Ahamad	B.Sc. II (50)
24/03/2021		Dr. Abhimanyu Yadav, Ayyub Ahamad	B.Sc. II(50)
25/03/2021		Dr. Abhimanyu Yadav, Ayyub Ahamad	B.Sc. II(50)
25/03/2021		Dr. Abhimanyu Yadav, Ayyub Ahamad	B.Sc. II (50)
8/02/2022-9/02/2022	Principle of Chromatography and Paper Chromatography Separation techniques	Dr. Deepali Jaiswal Dr. Arvind Kr Pandey	B.Sc.II (100) 35/batch
19/02/2022-21/02/2022	Hands on Training Workshop on Potentiometric titration: Principle and Applications Titration through potentiometer	Dr. Om Prakash Yadav, Dr . N. K. Singh	B.Sc.III (60) 30/batch
10/08/2023	To determine of Hardness of Water	Dr. Om Prakash Dr. Dharendra Kumar	B.Sc. Ist Sem (120)
24/02/2023	Hands on training Programme : Preparation of <i>m</i> -dinitrobenzene, <i>p</i> -nitroacetanilide	Dr. Deepali Jaiswal	B.Sc. IIIrd Sem (32)
11/08/2023	Hands on Training to determine the concentration of KMnO ₄ by colorimetrically	Dr. Sidharth Baranwal Dr. Amit Kumar	B.Sc. IInd Sem (70)
10/01/2024	Hands on Training Workshop on Conductometric titration: Principle and Applications	Dr. Shikha Mehta Dr. Jyoti Maurya	B.Sc. IInd Sem (90)

Department: Physics			
13/03/2020	Experiments on Laser-I batch (During the session the formation of interference and diffraction patterns was explained the students)	Dr. Priyanka Srivastava	B.Sc. II(30)
15/03/2021	Assembling of Electronics Circuits on Breadboard (The students known the parts of the scientific components)	Mr. M.K. Vishwakarma Dr. Priyanka Srivastava	B.Sc. III(45)
16/03/2021	Assembling of Electronics Circuits on Breadboard (The students learnt how to join the circuit on the bread board using components)	Mr. M.K. Vishwakarma	B.Sc. III(30)
16/03/2021	Experiments on Laser-II (Demonstration of formation of interference and diffraction patterns)	Dr. Priyanka Srivastava	B.Sc. II (35)
11/02/2022	Wave Formation using CRO (Hands on training)	Mr. M.K. Vishwakarma	B.Sc. III(30)
30/01/2022- 1/02/2022	Foundations of Quantum Mechanics (Online mode)	Mr. Akhilesh Kumar & Mr. Jais Patel	B.Sc.II (100)
08/06/ 2023	Moment of Inertia of flywheel & Newton's second law of motion	Dr. Ritu Dhingra Associate Professor Department of Physics, Maitreyi College, South Campus University of Delhi, New Delhi	B.Sc. II Sem. (55)
09/06/2023 2023	Ballistic Pendulum & Projectile Motion	Dr. Poonam Juneja Associate Professor Department of Physics, Maitreyi College, South Campus University of Delhi, New Delhi	B.Sc. II Sem (67)
05/06/ 2023	Black Body Radiation: Determination of Stefan's Constant & Ohm's Law	Dr. Prajwalit Shikha Assistant Professor Department of Physics, Maitreyi College, South Campus University of Delhi, New Delhi	B.Sc. II Sem (60)
13/10/ 2023	Half and Full Wave Rectifier	Dr. Poonam Juneja Associate Professor Department of Physics, Maitreyi College, South	B.Sc. IV Sem (50)

		Campus University of Delhi, New Delhi	
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2. List of New Practical introduced in different departments

Department	Details of Experiments
Physics	<ul style="list-style-type: none"> To determine the energy band gap of semiconductor material using four probe setup To determine the frequency of a.c. mains using sonometer Formation of interference, diffraction and slight width determination using diode laser setup. Preparation of nanomaterial by using agrowaste To find out the refractive index of liquid (Hg) Different wave formation using CRO To find out the resolving power of prism To find out the frequency of ac mains using Melde's experiment To find out the wavelength of laser light using transmission grating To determine the width of single slit from the study of diffraction pattern
Chemistry	<ul style="list-style-type: none"> To determine the percentage composition of a given mixture by viscosity method. To determine the strength of HCl by titrating it against standard NaOH solution conductometrically. Preparation of Copper tetra ammine complex Potentiometric titration Separation of amino acids preparation of soaps formation of crystal Hands on Training to determine the concentration of KMnO₄ by colorimetrically Conductometric titration To determine of Hardness of Water Preparation of <i>m</i>-dinitrobenzene, <i>p</i>-nitroacetanilide pH metric titration
Botany	<ul style="list-style-type: none"> Preparation of culture medium and isolation of soil, water and air microflora. Measurement of chlorophyll concentration in diseased and healthy plants To measure the rate of respiration Differentiation between monosaccharides and disaccharides Protein estimation Isolation of essential oils Isolation of Plant DNA Preparation of hoagland medium and aqueous culture Separation of amino acids by paper chromatography Preparation of Explant and culture technique Measurement of RQ value of different seeds through Ganong's respirometer Preparation of mitotic and meiotic slides
Zoology	<ul style="list-style-type: none"> Isolation and Separation of DNA Blood group typing Measurement of microbes Quantitative estimation of sugar and Protein

	<ul style="list-style-type: none"> • Microtomy • Polyacrylamide gel electrophoresis • Thin layer Chromatography and Column Chromatography
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3. Publication of faculty

Department: Botany
<ul style="list-style-type: none"> • A brief analysis of Zinc efficiency Mechanism in Plants Ranjit Singh, Int. J. of Disaster Recovery and Business Continuity (ISSN: 2005-4289 IJDRC) Acceptance 26/01/2021 • Biocontrol efficacy of Trichoderma species for control of collar rots of chickpea induced by <i>Sclerotium rolfsii</i> Ranjit Singh, Int. Journal of Disaster Recovery and Business Continuity (ISSN: 2005-4289 IJDRC) Acceptance 22/02/2021 • Book Chapter: Ecological Stability and Pest Management Ranjit Singh In Book: Environmental Aspect of Alternative Energy Resource Editors: Dr. Madhu Tiwari, Dr. Abhimanyu Yadav, ISBN: 978-93-89657-43-2, Publisher: Bharti Publications, New Delhi (2020) • Algal biofuels: A Sustainable Source of Alternative Energy, Suman Gupta In book: Environmental Aspect of Alternative Energy Resource Editors: Dr. Madhu Tiwari, Dr. Abhimanyu Yadav, ISBN: 978-93-89657-43-2, pp 126-130; Publisher: Bharti Publications, New Delhi (2020) • Algal Secondary Metabolites Suman Gupta In book: Green Initiative and Sustainable Development; ISBN 978-81942503-Learning Media Publication 318-320 (2020) • Ravi Kumar Yadav, Nishant Singh, Manish Kumar Singh, Jyotsana Raghuvanshi and Zeba Azim. 2024. Green synthesis of nano iron oxide using <i>Emblica officinalis</i> L. fruit extract and its impact on growth, chlorophyll content and metabolic activity of <i>Solanum lycopersicum</i> L. Journal of applied biology and biotechnology. Vol. X(XX), 1-9. DOI. 10.7324/JABB.2024.165651. • Ravi Kumar Yadav, Nishant Singh, Manish Kumar Singh and Zeba Azim. 2023. Role of green synthesized nano iron oxide in alleviating the cadmium toxicity in Brassica oleracea var. italica seedlings. Plant Nano Biology. Vol 6. https://doi.org/10.1016/j.plana.2023.100055. • Ravi Kumar Yadav, Nishant Singh, Manish Kumar Singh, Jyotsana Raghuvanshi and Zeba Azim. 2023. Green synthesis of nano zinc oxide using <i>Phyllanthus emblica</i> l. Fruit extract and its impact on growth, pigment content and antioxidant enzyme activity of <i>brassica oleracea var italica</i>. Biochem. Cell. Arch. Vol. 23, No. 2. https://doi.org/10.51470/bca.2023.23.2.000. • Rashmi Singh, Madhu Shastri, A. K. Singh and P. N. Dongre. 2023. Approaches towards integrated disease management of sheath blight disease of corn. Current Agriculture Research Journal. Vol 11(3). https://doi.org/10.12944/CARJ.11.3.08 • Rashmi Singh, Madhu Shastri, A. K. Singh and P. N. Dongre. 2023. Sheath blight disease and its bio management. Journal of Asiatic Society of Mumbai. Vol 97 (4) 133-138. • Rashmi Singh, Madhu Shastri, A. K. Singh and P. N. Dongre. 2022. Study of Disease severity of sheath blight symptoms of Corn in Purvanchal, (U.P.), India. NIU International Journal of Human Rights. vol 9 July (I) 64-70

Books

Author-Rashmi Singh

1. Microbiology and Plant Pathology. 2022. A Text Book. Krishna Publication. ISBN: 978-93-91152-61-1.
2. Archegoniate and Plant Architecture. 2022. A Text Book. Krishna Publication: ISBN No. : 978-93-91152-29-1.
3. Economic Botany, Ethnomedicine and Phytochemistry. 2023. A Text Book. Krishna Publication: ISBN No.; 978-93-94511-93-4

Department: Chemistry

- Book Chapter: Carbon and Transition Metal two Dimensional Quantum Dots: New Era of Material Science, Editors: Dr. Mridula Tripathi, Dr. Kalpna Awasthi and Dr. Aarti Publisher: NOVA Publications, USA(communicated) (2020)

Edited Book

- Environmental Aspect of Alternative Energy Sources Editors: **Dr. Madhu Tiwari , Dr. Abhimanyu Yadav**, ISBN: 978-93-89657-43-2, Publisher: Bharti Publications, New Delhi (2020)
- Renewable Energy Sources : An Assessment in Environment Scenario, Editors: **Dr. Abhimanyu Yadav, Dr. Madhu Tiwari**, ISBN: 978-81-949793-0-2; Publisher: Bharti Publications, New Delhi (2020)
- Air Quality Index ; **Hement Kumar Nirala** ;Book chapter in Renewable Energy Sources : An Assessment in Environment Scenario, **Editors: Dr. Abhimanyu Yadav, Dr. Madhu Tiwari**, ISBN: 978-81-949793-0-2; pp.178-188, Publisher: Bharti Publications, New Delhi (2020)
- *Mishra A, Jaiswal A, Sharma AK, Pandey YK, Singh J, Singh J. 2023. A Visible-light- triggered & rhodamine-b catalyzed eco-friendly synthesis of benzopyrano [2, 3-c] pyrazoles. Catalysis Letters. 2023 Jan 26:1-0. DOI: 10.1007/s10562-023-04279-1*
- *Jaiswal A, Sharma AK, Jaiswal S, Mishra A, Singh J, Singh J, Siddiqui, I.R. 2023. Visible lightinduced eco sustainable synthesis of quinolines catalysed by Eosin Y. J. Heterocyclic Chem. DOI: 10.1002/jhet.4653*
- **Prakash O, Tiwari S, Maiti P.** 2022. *Fluoropolymers and their nanohybrids as energy materials: application to fuel cells and energy harvesting.* ACS omega. (7-39):34718-40.
- **Prakash O, Bihari S, Tiwari S, Prakash R, Maiti P.** 2022. *Dehydrohalogenated poly (vinylidene fluoride)-based anion exchange membranes for fuel cell applications.* Mat. Today Chemistry. (23-1):100640.
- **Singh AP, Prakash O, Kumar S, Shukla A, Maiti P.** 2022. *Poly (lactic acid-co-glycolic acid) assustained drug delivery vehicle for melanoma therapy.* Mat. Today Comm. (31):103661.
- **Bhardwaj R, Prakash O, Tiwari S, Maiti P, Ghosh S, Singh RK, Maiti P.** 2022. *Efficient herbicide delivery through a conjugate gel formulation for the mortality of broad leaf weeds.* ACS omega. (7-23):19964-78
- **Kanaujiya VK, Tiwari V, Baranwal S, Srivastava V, Kandasamy J.** 2022.

Denitrosation of aryl-N-nitrosamines via trans-nitrosation strategy using ethanethiol and p-toluenesulfonic acid under mild reaction conditions. Synlett, AAM.

- **Jaiswal D, Tiwari J, Singh S, Singh J, Singh J.** 2021. Visible-light-mediated decarboxylative thiocyanation of cinnamic acids: an efficient photocatalytic approach to the synthesis of (e)- vinyl thiocyanates. *Cat. Lett.* (151): 1738-1744.
- **Yadav PK, Prakash O, Ray B, Maiti P.** 2021. Functionalized polythiophene for corrosion inhibition and photovoltaic application. *J. Appl. Poly. Sci.* 138(44):51306.

Department: Physics

- Impact of Functionalized Multi-Walled Carbon Nanotubes on Growth of Tomato Plant (*Solanum lycopersicum* L.)
Kalpana Awasthi, Dheeraj Kumar Tripathi and Rajani Srivastava, Journal of Experimental Biology and Agriculture, Science 8(2020) 469-478.
- Environmental Pollution Management Using 2D Carbon Nanomaterial: Graphene
Kalpana Awasthi and Seema Awasthi
Book chapter in Renewable Energy Sources : An Assessment in Environment Scenario
Editors: Dr. Abhimanyu Yadav, Dr. Madhu Tiwari, ISBN: 978-81-949793-0-2, pp145-156;
Publisher: Bharti Publications, New Delhi (2020)
- Hydrogen Energy: A Clean and Green Fuel
T. P. Yadav and **Kalpana Awasthi**
Book Chapter in Environmental Aspect of Alternative Energy Sources Editors: Dr. Madhu Tiwari, Dr. Abhimanyu Yadav, ISBN: 978-93-89657-43-2; pp.30-38 Publisher: Bharti Publications, New Delhi (2020)
- Investigations on Exotic Forms of Carbon: Nanotubes, Graphene, Fullerene, and Quantum Dots, Mahe Talat, **Kalpana Awasthi**, Vikas Kumar Singh, O.N. Srivastava
Book Chapter in Functionalized Nanomaterials I: Fabrications; Editors: Vineet Kumar, Praveen Guleria, Nandita Dasgupta, Shivendu Ranjan, ISBN: 9780815370413; pp.125-132 Publisher: CRC Press Taylor & Francis group (2020)
- Indian Energy Crisis
Priyanka Srivastava
Book chapter in Environmental Aspect of Alternative Energy Sources Editors: Dr. Madhu Tiwari, Dr. Abhimanyu Yadav, ISBN: 978-93-89657-43-2; pp.66-67 Publisher: Bharti Publications, New Delhi (2020)
- Waste Management for Safe Environment Challenges and Opportunities
Manoj Kumar Vishwakarma, Arun Kumar Kushwaha and Surendra Kumar Singh Yadav
Book chapter in Environmental Aspect of Alternative Energy Sources Editors: Dr. Madhu Tiwari, Dr. Abhimanyu Yadav, ISBN: 978-93-89657-43-2; pp.196-211 Publisher: Bharti Publications, New Delhi (2020)

Books

- Bio-organic and Medicinal Chemistry Editors: S. Goyal, D. Pandey, P.P. Bhattacharya, D. Kumar, S. Yadav, Ranvir Singh, **V.K. Yadav**, Publisher: Krishna Prakashan, Meerut, ISBN No. 978-93-91152-76-5 (2022).
- Fundamental of Chemistry, Editors: S. Goyal, D. Pandey, P.P. Bhattacharya, D. Kumar, S. Yadav, Ranvir Singh, **V.K. Yadav**, Publisher: Krishna Prakashan, Meerut, ISBN No. 978-93-91152-76-5 (2022).
- Chemical Dynamics and Coordination Chemistry, S. Goyal, D. Pandey, P.P.

Bhattacharya, D. Kumar, S. Yadav, Ranvir Singh, **V.K.Yadav**, Publisher: Krishna Prakashan, Meerut , ISBN No.978-93-91152-76-5(2022).

Department: Zoology

- Book Chapter: An Insight into Coronavirus Disease 2019 (Covid-19)
P.C. Gupta In Book: A Global Pandemic of the 21st Century. In: Socio-Economic impact of COVID-19 on Indian Economy, Ed. Archana Singh, ISBN: 978-93-89234-80-0; pp.92-104 Publisher: NB Publication, Ghaziabad (U.P.), India, (2021)
- Book Chapter: Diabetes mellitus (Madhumeh): A Life-Style Associated Threat to Male Fertility in Modern Society
P . C. Gupta In Book: Renewable Energy Sources an Assessment in Environmental Scenario, Ed. A. Yadav & M. Tiwari, ISBN: 978-81-949793-0-2; pp. 97-106. Publisher: Bharti Publications, New Delhi (2020)
- Book Chapter: Water Pollution and Its Impact on the Human Health
Ratnesh Kumar Soni In Book: Renewable Energy Sources an Assessment in Environmental Scenario. Ed. A. Yadav & M. Tiwari, **Bharti Publications, New Delhi, India, 2020.** (ISBN : 978-81-949793-0-2)
- Book Chapter: Role of Vitamin A in Immunity and Infection
Ratnesh Kumar Soni In Book: Emerging Trends in Research Dimensions. Ed. R.C. Tripathi & B. Mishra, **Namya Press, Delhi, India, 2020.** (ISBN : 978-81-948090-0-3)
 - Kushwaha A, Thakur MK. Suv39h1 Silencing Recovers Memory Decline in Scopolamine-Induced Amnesic Mouse Model. Mol Neurobiol. 2023 Aug 26. doi: 10.1007/s12035-023-03570-x. PMID: 37626270.
 - Verma, Vivek et al. "Impact of a Single Episode of Different Intensity of White Light Pulse at Night on Masking Response in the Diurnal Mammal, Funambulus pennantii." Chronobiol Med. 2023;5(3):108-116
 - Malviya S.J. and Soni R. (2023): Revolutionizing Tomato Jassid (Amrasca biguttula biguttula) Control: A Synergistic Approach with Eco-friendly Botanicals and Precision Chemicals. Annals of Natural Sciences, Vol. 9[4]: December, 2023: 1-12.

4. Training received by faculty

Dr. Kalpana Awasthi :Faculty development programme on Teachers in NEP2020: Role Awareness, Orientation, Challenges and Response, organized by MGKVP Varanasi and Hari Singh Gour Vishwavidyalaya, Sagar (March 17-23, 2021).

Dr. Priyanka Srivastava :Faculty development programme on Teachers in NEP2020: Role Awareness, Orientation, Challenges and Response, organized by MGKVP Varanasi and Hari Singh Gour Vishwavidyalaya, Sagar (March 17-23, 2021).

Mr. P. C. Gupta

- Two Week Online Interdisciplinary Refresher Course on Blended Learning & Flipped Classroom from Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching in collaboration with GNIOT (March 08-21, 2021). (Grade A)
- One week Faculty Development Programme on ACADEMIC WRITING. Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PMMMNMTT. (February 18-24, 2021) (Grade A).

- Five days Faculty Development Programme on Research and Career. Vimala College (Autonomous) Thrissur, Kerala (supported by DBT-STAR College Scheme, Government of India) (October 19-21, 2020).

Mr. Ratnesh Kumar Soni

- One week Faculty Development Programme on ACADEMIC WRITING. Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PMMMNMTT.(February18-24, 2021) (Grade A).

Mr. H.K. Nirala

- One week Faculty Development Programme on ACADEMIC WRITING. Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PMMMNMTT.(February18-24, 2021) (Grade A).
- Two week Faculty Development Programme on Research Methodology Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PMMMNMTT.(October 01-15, 2000)
- Two week Faculty Development Programme Advanced Concept for Developing MOOCS Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PMMMNMTT(July 02-17,2000).
- **Mr. Manoj Kumar Vishwakarma:** Refresher Course in Physics, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 09 -23 June, 2023.
- **Dr. Jais Kumar:** Faculty Induction Programme organized by Human Resource Development Centre (HRDC) Aligarh Muslim University, Aligarh, 12 July to 17 August 2023.
- **Dr. Akhilesh Kumar:** Faculty Induction Programme organized by Human Resource Development Centre (HRDC) Aligarh Muslim University, Aligarh, 01 November to 05 December 2022.
- **Dr. Dhananjay Kumar Gaur:** Refresher Course on Environmental Studies organized by Human Resource Development Centre (HRDC) Aligarh Muslim University, Aligarh 16-29 August 2023.
- **Dr. Ashish Varma:** Refresher course in Physics, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 28 July -11 August, 2022.
- **Dr. Ashish Varma:** Refresher course in Physics, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 27 February -13 March, 2023.
- **Dr. Ashish Varma:** Refresher Course in “Managing Online Classes & Co- creating MOOCS, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 11 – 25 November, 2023.
- **Dr. Ravi Kumar Yadav.** Workshop on Basic techniques of HPLC and it’s application in research. Organized by Centre of Biotechnology, Nehru science Centre, University of Allahabad. 29-30 August 2022.
- **Dr. Ravi Kumar Yadav.** Lichens in an ecosystem. Organized by NBRI, Lucknow. 6-7 February 2023.
- **Dr. Ravi Kumar Yadav.** Refresher Course in Botany, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 29 July-13 August, 2023.
- **Dr. Ravi Kumar Yadav.** Basic Training Program in Nano Science and Technology. Organized by Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore. 20-22 June 2022.
- **Dr. Ravi Kumar Yadav.** Professional Development Programme on Implementation of NEP-2020 for university and college teachers. Organized by IGNOU. 17-25 October 2022.

- **Dr. Rashmi Singh.** Refresher Course in Botany, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 29 July-13 August, 2023.
- **Dr. Rashmi Singh.** Professional Development Programme on Implementation of NEP-2020 for university and college teachers. Organized by IGNOU. 21-31 December 2022.
- **Dr. Shefali Singh.** Refresher Course in Botany, organized by Teaching Learning Centre Ramanujan College, University of Delhi, New Delhi, 29 July-13 August, 2023.
- **Dr. Shefali Singh.** Professional Development Programme on Implementation of NEP-2020 for university and college teachers. Organized by IGNOU. 21-31 December 2022.
- **Dr. Shefali Singh.** Basic Training Program in Nano Science and Technology. Organized by Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore. 20-22 June 2022.
- **Dr. Dharendra Kumar.** FIP. 1/9/2022 to 28/9/2022. Jamia Millia Islamia, New Delhi
- **Dr. Nikhil Singh.** FIP. 1/9/2022 to 28/9/2022. Jamia Millia Islamia, New Delhi
- **Dr. Om Prakash.** FIP. 1/9/2022 to 28/9/2022. Jamia Millia Islamia, New Delhi
- **Dr. Deepali Jaiswal.** FIP. 1/11/2022 to 29 /11/2022. Jamia Millia Islamia, New Delhi
- **Dr. Shikha Mehta.** FIP. 1/11/2022 to 29 /11/2022. Jamia Millia Islamia, New Delhi
- **Dr. Jyoti Maurya.** FIP. 1/11/2022 to 05/12/2022. Aligarh Muslim University, Aligarh
- **Dr. Siddharth Barnwal.** FIP. 15/11/2023 to 19/12/2023. Aligarh Muslim University, Aligarh
- **Dr. Amit kumar Sharma.** FIP. 15/11/2023 to 19/12/2023. Aligarh Muslim University, Aligarh
- **Dr. Rajneesh Diwedi.** FIP. 15/11/2023 to 19/12/2023. Aligarh Muslim University, Aligarh
- **Dr. Arvind Pandey.** FIP. 15/11/2023 to 19/12/2023. Aligarh Muslim University, Aligarh
- **Dr. Jyoti Tiwari.** FIP. 12/07/2023 to 17/08/2023. Aligarh Muslim University, Aligarh
- **Dr. Nikhil Singh.** Refresher Course. 04/08/2023 to 08/08/2023. Jamia Millia Islamia, New Delhi
- **Dr. Anju Verma-** Interdisciplinary refresher course in Sustainable Development and Climate Change organized by UGC-HRDC, University of Allahabad, 23 February-08 march, 2023.
- **Dr. Deepak Verma-**
Professional Development Programme on “Implementation of NEP 2020 for University and College Teachers” held from 05 December 2022 – 13 December 2022.
-UGC Sponsored Online Faculty Induction Programme, Organised by Aligarh Muslim University, Aligarh 06 February - 14 March 2023.
- **Dr. Vivek Verma-**
Faculty Induction Programme conducted by Jawaharlal Nehru University held from 9th January 2023 to 6th February 2023 and obtained A grade only
UGC Approved Short Term Professional Development Programme on Professional Development Programme on ‘Implementation of NEP 2020 for University and College Teachers’ held from 07th to 15th October, 2022.
- **Dr. Akanksha Kushwaha-**
Participated in Faculty induction program from Feb 6 to March 14, 2023, held in online mode at HRDC-AMU, Aligarh.
Attended professional development program on Implementation of NEP 2020 for University and college teachers from Nov 7 to Nov 16, 2022 through SWAYAM organised by IGNOU.

5. Details of institutes/ field visit organized during first year

Visiting Institute/ field	Training detail	Training manger (Name & Designation)	Date	Class	No. of Beneficiaries	Organizer
Department: Zoology						
Local visit	Collection and identification of local insects of Gyanpur	Dr. R. K. Tiwari, Retired Principal, Govt. P. G. College, Saidabad, Allahabad	12/03/2021	B.Sc. I	150	Dr. Awadesh Singh Yadav
Local visit	Collection and identification of native fishes	Dr Anju Verma, Assistant Prof., K. N. Govt. P. G. College, Gyanpur, Bhadohi	15/03/2021	B.Sc. II	100	Ratnesh Kumar Soni
Local visit	Collection, identification and culture techniques of native fishes	Dr Anju Verma, Assistant Prof., K. N. Govt. P. G. College, Gyanpur, Bhadohi	15/03/2021	B.Sc. III	60	Ratnesh Kumar Soni
Local visit	Collection and identification of insect pests of cultivated crops	Dr. R. K. Tiwari, Retired Principal, Govt. P. G. College, Saidabad, Allahabad	22/03/2021	B.Sc. III	60	Dr. Awadesh Singh Yadav
Department of Zoology, University of Allahabad, Prayagraj	Institute Visit		24/02/2022	B.Sc. I, II and III	65	Dr. Deepak Verma
Department of Biochemistry University of Lucknow	Institute visit with introduction of histochemistry of cancer		13/07/2023	B.Sc. IV Sem	40	R.Soni
BS Institute of Palaeoscience , Lucknow	Working detail of electron microscope and carbon dating.		14/07/2023	B.Sc. IV Sem	40	R.Soni
Department: Chemistry						
Central Instrumentation Facility,	Students visited the central facility and they were able to know the basic concept,	Dr. Ashish Kumar Singh,	23/03/2021	B.Sc. III	60	Dr. Abhimanyu Yadav

IIT(BHU) Varanasi	practical problems and demonstration of Instrumentation in X-ray diffraction technique; Ion chromatography; X-ray photoelectron; spectroscopy; Optical, Atomic force, Scanning electron and Transmission electron microscopy; HNMR and CNMR; FTIR and BET.	Mr. Nirmal Malik, Mr. Vinay Sharma, Operators				
IIT(BHU) Varanasi	Institute visit in Central Instrumentation Facility			B.Sc. Vth Sem	60	Dr. Dhirendra Kumar Dr. Nikhil Kumar Singh Dr. Sidharth Baranwal
Department of Botany						
Indian Institute of Vegetable Research, Varanasi	Demonstration of various biochemical techniques, lab to land application of various techniques	Dr. Chandrsekhar Reddy	27/11/2021	B.Sc. I, B.Sc. II and B.Sc. III	60	Dr. Ravindra Pandey
Local Visit	The students visited nearby agricultural field and collected many plant diseases.		31/01/2023	B.Sc. IIIrd Year	60	Dr. Rashmi Singh
Birbal Sahni Institute of Palaeobotany, Lucknow	By visiting this institute students were being able to understand the process of fossilization. Also they understand the scope of palaeobotany		13/07/2023	B.Sc. IIInd Sem	40	Dr. Ravindra Pandey
CIMAP, Lucknow	The student visited the park and know about various medicinal plants, extraction unit for essential oils.		14/07/2023	B.Sc. IVth Sem	40	Dr. Saumya Mishra
Department of Physics						
Hydrogen Energy Centre and Laser and Spectroscopy Laboratory, BHU, Varanasi	The students got know about preparation of metal hydride, storage of hydrogen and its testing. They also saw X-ray diffraction and TEM instruments.	Dr. T.P. Yadav, Dr. Anchal Srivastava	14/03/2022	B.Sc. III	30	Dr. Priyanka Srivastava and Dr. S.P. Mishra

Department of Physics, Allahabad University, Prayagraj	Visit to electronics & optics lab and Spectroscopy research lab		18/06/2023	B.Sc. IV Sem	33	Dr. S.P. Mishra Dr. A. Varma
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6. Details of organized workshops and winter school

Worksh op/ Winter school	Topic	Date	Online/ offline	Lectures delivered (Resource person Name & affiliation)	Class and no . of Benef-iciaries	Organizer
Worksh op	Operation & Utility of Advanced Electronics Devices	12/03 /2121	Off-line	Advancements in semiconductors : Dr. R.K. Yadav, Deptt. of Physics, Dr, SPM Degree College, Bhadohi Luminescence and Its Applications: Dr. Manoj Kumar Prajapati,	B.Sc. III & B.Sc. I 65	Dr. S.P. Mishra & Mr. M.K. Vishwakarma
Worksh op	Biological Pesticides	24/03 /2021	Off-line	Use of biological pesticides instead of chemical pesticides (Speaker: Dr. Maya Yadav; Dr. SPM Govt. Degree College, Bhadohi	80	Mr. Ranjit Singh
Winter School	Collection and Identification of Plant Pathogen	2/02/ 2022- 10/02 /2022	Offline	Local plant disease were collected, samples taken to the lab and with Image analysing camera, pathogen were identified.	B.Sc.III	Dr. Rashmi Singh
Winter School	Experimental Physics	18/02 /2022 - 24/02 /2022	offline	Determination of frequency of a. c. mains using sonometer. Determination of centre of gravity by bar pendulum, To find the value of moment of Inertia of flywheel, modulus of rigidity by Maxwell needle and determination of young modulus by bending of beam.	B.Sc.I	Mr. Akhilesh Kumar, Mr. Jais Kumar
Worksh op	Operation & Utility of Advanced Electronics Devices	12/03 /2121	Off-line	Advancements in semiconductors : Dr. R.K. Yadav, Deptt. of Physics, Dr, SPM Degree College, Bhadohi Luminescence and Its Applications: Dr. Manoj Kumar Prajapati,		
Worksh op	Biological Pesticides	24/03 /2021	Off-line	Use of biological pesticides instead of chemical pesticides (Speaker: Dr. Maya Yadav; Dr. SPM Govt. Degree College, Bhadohi		

Winter School	Collection and Identification of Plant Pathogen	2/02/2022-10/02/2022	Offline	Local plant disease were collected, samples taken to the lab and with Image analysing camera, pathogen were identified.		
Winter School	Experimental Physics	18/02/2022 - 24/02/2022	Offline	Determination of frequency of a. c. mains using sonometer. Determination of centre of gravity by bar pendulum, To find the value of moment of Inertia of flywheel, modulus of rigidity by Maxwell needle and determination of young modulus by bending of beam.		

7. Quiz- Poster Competition/ science exhibitions details

The poster competition on the topic “Advances in Chemistry” was organized for B.Sc. I, II and III students by Department of Chemistry.

Quiz 12/03/2021 Chief Guest: Dr. P. N. Dongre, Principal K.N. Govt. P.G. College, Gyanpur, Bhadohi Organizers: Hemant Kumar Nirala, Dr. Vinod Kumar Yadav, Dr. Abhiamnyu Yadav, Ayyub Ahmad	Name and Class of Winners	
	First Position: Rinki Yadav, B.Sc. II, Manisha Singh, B.Sc. III, Muskan Kannaujiya B.Sc. I, Ujala Maurya, B.Sc. I ;Ujala Maurya, B.Sc. I; Nitu, B.Sc. I; Juhi Dwivedi, B.Sc. II; Mujaif Hussain B.Sc. I	
	Second Position: Dolly Singh, B.Sc. I; Shraddha Pathak, B.Sc. II; Kashma Singh, B.Sc. II; Seema Bind, B.Sc. II; Khushbu Dubey, B.Sc. II; Sonal Dubey, B.Sc. II; Sachin B.Sc. II	
	Third Position: Ankit Tiwari, B. Sc. III; Raju Pal, B.Sc. III; Vikash Yadav, B.Sc. III; Prabhat Tripathi, B.Sc. II; Suraj Kumar Rawat, B.Sc. ; Akash Maurya, B.Sc. II; Pawan Kumar, B.Sc. II	
Poster Advances in Chemistry 15/03/2021 Chief Guest : Dr. R. N. Sharma, Principal, Govt. Degree College, Dhanapur, Chanduli Organizers: Hemant Kumar Nirala, Dr. Vinod Kumar Yadav, Dr. Abhiamnyu Yadav, Ayyub Ahmad	First: Sachin, B.Sc. II; Anamika Pandey , B.Sc. I; Second: Surabhi Malviya, B.Sc. III Third: Swati Mishra, B.Sc. II	

Quiz, poster, Essay and Science Exhibition was organized under Science week to celebrate National Science Day from 22/02/2022 to 28/02/2022

Quiz 25/02/2022 Chief Guest: Dr. P. N. Dongre, Principal K.N. Govt. P.G. College, Gyanpur, Bhadohi Organizers: Dr. Abhiamnyu Yadav, Ayyub Ahmad	Name and Class of Winners	
	First Position: Rehana Bano, B.Sc.III	
	Second Position: Vivek Maurya, B.Sc.III	
	Third Position: Shivam Tripathi, B.Sc. III	
Poster Jal hi Jeevan Hai 25/02/2022 Organizers: Mr. Ratnesh Kumar Soni	First: Bushra Anjum, B.Sc.I Second: Avisha Pandey, B.Sc.I Third: Esha Dubey, B.Sc.I	
Essay: Miracles of Light 22/02/2022	First: Roli, B.Sc.I Second: Nidhi Yadav, B.Sc.II	

Organizers: Dr. Kalpana Awasthi	Third: Muskan Kannaujiya, B.Sc.II
Science Exhibition 26/02/2022 organizers: Mr. Ravi Kumar Yadav	First: Sakshi Maurya, B.Sc.III Second: Prabhat, B.Sc.II Third: Aakash Maurya B.Sc.III

Physics				
Activity	Date	Programme details	Class and no. of Beneficiaries	Organizers
National Energy Conservation Day-2022	14 Dec. 2022	Essay, poster, presentation	B.Sc. (88)	Dr. S. Singh Dr. A.Kumar, Dr. A. Varma Dr. J. Kumar
Birth Anniversary of Padam Shree Prof. O.N. Srivastava	31 Dec. 2022	Online Physics Quiz	B.Sc. III (60)	Dr. K. Awasthi
National Science Day -2023	28 Feb. 2023	Essay, presentation	B.Sc. (40)	Dr. S.P. Mishra Dr. A. Kumar
National Technology Day-2023	12 May 2023	Essay	B.Sc. IV Sem (40)	Dr. P. Srivastava
World Environment Day -2023	6 June 2023	Online Quiz	B.Sc. (140)	Dr. A. Varma
Birth Anniversary of Dr. APJ Abdul Kalam	13 Oct. 2023	Essay	B. Sc. (30)	Dr. K. Awasthi Dr. P. Srivastava
Botany				
Activity	Date	Programme details	Class and no. of Beneficiaries	Organizers
Know your Indian Scientist Contribution	24th February 2023	Quiz Competition	B.Sc. (50)	Dr. Rashmi Singh
Importance of Medicinal Plants	18 May 2023	Exhibition	B.Sc. III (60)	Dr. Saumya Mishra and Dr. Ravindra Pandey
World Environment Day -2023	6 June 2023	Poster and Slogan	B.Sc. (80)	Dr. Ravi Yadav
World Ozone Day	16 Sept.2023	Science awareness play	B.Sc. (30)	Dr. Rashmi Singh
Birth Anniversary of Dr. APJ Abdul Kalam	13 Oct. 2023	Quiz Competition	B. Sc. (60)	Dr. Geeta Yadav Dr. Shefali Singh

Zoology				
Quiz Competition for U.G. Students	25 May 2023	Quiz Competition	B.Sc. (75)	Ratnesh Kumar Soni

8. Project work details:

S.N.	Details of Project	Class and no of Beneficiaries
Department: Zoology		
1	Project work involving collection/identification of local insects of Gyanpur	B.Sc. I (100)
2	Project work involving local visit for collection/identification of native fi	B.Sc. II (180)
3	Project work involving local visit for collection/identification and culture techniques of native fishes	B.Sc. III(100)
4	Project work on collection and identification of insect pests of cultivated crops	B.Sc. III (80)
5	Biochemical analysis of Gyanpur Hariharnath pond	B.Sc. III (20)
6	seasonal variability of phyto and zooplankton of Gyanpur hariharnath pond	B.Sc. I (20)
7	Morphogenetic trait variations among the population of Bhadohi district.	B.Sc. IV (20)
Department: Botany		
1	Project work in Plant physiology (Transpiration rate, Photosynthesis rate and respiration rate)	B.Sc. II (80)
2	Project work in Plant diseases management (Late blight of Potato, Red rot of sugarcane and stem gall of coriander)	B.Sc. III (80)
3	Project work in Plant physiology (Transpiration rate, Photosynthesis rate and respiration rate)	B.Sc. II (80)
4	Project work in Plant diseases management (Late blight of Potato, Red rot of sugarcane and stem gall of coriander)	B.Sc. III (80)
5	Isolation of Soil Bacteria and their identification	B.Sc. I (10)
6	Studies on River Pollution of District Bhadohi	B.Sc. V (10)
Department: Physics		
1	Characteristics of p-n junction	B.Sc. III (20)
2	Basic features of transistors and characteristics of p-n-p transistor	B.Sc. III (05)
3	Working principle of field effect transistor	B.Sc. III (10)
4.	Theory of Lorentz Transformation	B.Sc. III (25)
5.	1.Simple Audio Amplifier 2. Body Touch Sensor 3. Wireless Power Transfer System 4. Electric Motor 5. IR Sensor Module 6.Full Wave Rectifier 7.Security Device 8.Tesla Coil 9.Automatic on-off bulb	B. Sc. II (80)
6	Preparation of graphene oxide using agro waste i.e. rice husk	B.Sc. III (10)
7	Impact of graphene oxide on plant growth	B.Sc. V (10)

8	Laser induced scattering in leaf extract in organic medium	B.Sc. III (10)
9	Assembling of electronic devices on bread board	B.Sc. V (10)
Chemistry		
1	Hardness of Water and It's Determination	B.Sc. III (60)
Interdisciplinary Project		
Botany-Chemistry	separation of amino acids and plant pigments by paper chromatography	B.Sc. IV (60)
Physics-Chemistry	pH-metric titration: Principle and Applications	B.Sc. III (90)

9. Outreach activities :

S.No.	Target Audience	Topic	Date	No .of beneficiary
1.	Faculty Members	Smart use of Online Platform during Covid	26/11/2021	46
2.	Supporting Staff	Lab Safety measures	27/01/2022	25
3.	Rural Area People	Mushroom Production Technology	13/11/2021	38
4.	Rural Area People	Food Nutrition and Health	21/02/2022	54
5.	School students (9 th to 12 th standard)	Understanding Science through Experiments	17/02/2022	51
6.	Laboratory Staff Training	Preservation of collected materials	01/02/2023	05
7.	Supporting Staff	Lab Safety measures	08/12/2023	06
8.	School students (11 th standard)	Science Laboratory Visit	16/05/2023	54
9.	Other College Students	Hands on Training in some Life Science Experiments	12/10/2023	52
10.	Faculty and Students	Guest Lecture on Intellectual Property Rights	23/02/2023	80

10. Details of invited lectures (Online/offline mode) organized:

Resource Person	Designation & Affiliation	Lecture Topic	Date and time	Platform (Online /offline)	Class	No. of Beneficiaries	Organizer
Department: Botany							
Dr. Santosh Kumar Singh	Assistant Professor, Department of	Isolation and culture of microbes	31/03/2021	Online		50	Mr Ranjit Singh

	Botany, MM Govt. Degree College, Dhanupur, Hadiya						
Dr. P. N. Dongre	Principal, K. N. Govt. PG College, Gyanpur Bhadohi	What is Science?	14/12/2021	Offline	B.Sc. I	90	Dr. Rashmi Singh
Dr. Rajesh Kumar	Senior Food Analyst, Food Safety and Drug Administration, Lucknow	Food Safety Measures	28/01/2022	Online	B.Sc. I, II and III	218	Dr. Rashmi Singh
Dr. Balendra Singh	Scientist C DBT, New Delhi	Environmental Biotechnology: Challenges and Solution	31/01/2022	Online	B.Sc. I, II and III	170 (120 online + 50 offline)	Mr. Ravi Kumar Yadav
Dr. Indresh Kumar Pandey	Assistant Professor, Dr. Shivanand Nautiyal Govt. P. G. College, Karnprayag, Chamoli, Uttarakhand	Millets: The miracle superfood; Opportunities for the Entrepreneurship	04/03/2023	Online	B.Sc.	115	Dr. Ravi kumar Yadav and Dr. Shefali Singh
Dr. Prabhat Srivastava	Assistant Professor, K S saket P. G. College, Ayodhya, U.P.	Hydroponics: A method to grow plant in aqueous medium	27/03/2023	Offline	B.Sc. IVth Sem	60	Dr. Ravi kumar Yadav and Dr. Shefali Singh
Dr. U. N. Tripathi	Regional Director, IGNOU, Varanasi	Bio-risk and Bio-safety management	29/04/2023	Offline	B.Sc.	80	Dr. Rashmi Singh
Dr. Bhagat S. Bhakuni	Assistant Professor, Deptt. of Chemistry, Kirori Mal College, University of Delhi	Beat the Plastic Pollution With Solution	05/06/2023	Online	B.Sc.	80	Dr. Rashmi Singh
Dr. D. P. Singh	Principal Scientist, ICAR	Biological Data analysis	16/12/2023	Offline	B.Sc. III and Vth Sem	60	Dr. Rashmi Singh
Department: Chemistry							
Dr. Situ	Assistant	Impact of	06/03	Online	B.Sc.	92	Dr. Madhu

Rani Patre	Professor, Department of Electronics and Communication Engineering National Institute of Technology, Rourkela	Innovative Wireless Communication in Current Era	2021, 3:00 PM		I, II & II		Tiwari, Dr. Abhimanyu Yadav
Dr. Vinita	Assistant Professor, Department of Chemistry, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur	Importance of Innovation in Medical Diagnosis and Treatment	07/03/ 2021, 3:00 PM	Online	B.Sc. I, II & II	97	Dr. Madhu Tiwari, Dr. Abhimanyu Yadav
Dr. Gopal Ji	Assistant Professor, Department of Mechatronics Centre for Advanced studies, APIAKTU, Lucknow	Innovation as Necessity in Current Scenario	08/03/ 2021 11:00 AM	Online	B.Sc. I, II & II	87	Dr. Madhu Tiwari, Dr. Abhimanyu Yadav
Dr. Preeti Verma	Scientist, National Research Laboratory for Conservation of Cultural Property Aliganj, Lucknow	Need of Innovation in Steel Industry	09/03/ 2021, 12:00 PM	Online	B.Sc. I, II & II	92	Dr. Madhu Tiwari, Dr. Abhimanyu Yadav
Dr. Bhagat Singh Bhakuni	Assistant Professor, Department of Chemistry, KM College, University of Delhi	Innovation in the Field of Energy Production	10/03/ 2021 11:00 AM	Online	B.Sc. I, II & II	96	Dr. Madhu Tiwari, Dr. Abhimanyu Yadav
Dr. Bhagat Singh Bhakuni	Assistant Professor, Department of Chemistry, KM College, University of Delhi	Cyber Safety	01/12/2 021	Online	B.Sc. I, II & II	200	Dr. Abhimanyu Yadav
Dr. Suverna Trivedi	Visiting Scholar, School of Chemistry, University of California, Berkeley, CA	Catalyst: Basics to Modern Uses	06/12/2 021	Online	B.Sc. I, II and III	250	Dr. Abhimanyu Yadav

	USA-94707						
Prof P. K. Dutta	Professor (HAG) Motilal Nehru National Institute of Technology Allahabad	Polymer Spectacular world of macromolecule molecule	08/05/2023	Online	B.Sc.	90	Dr. Abhimanyu Yadav
Dr. Prakash Chandra	Assistant Professor, Department of Chemistry, Bundelkhand University Jhansi	Fluorescent spectroscopy and its Applications	28/06/2023	Offline	B.Sc.	84	Dr. Abhimanyu Yadav
Dr. Ajay Verma	Assistant Professor, Department of Chemistry University of Allahabad, Prayagraj	Overview of spectroscopic techniques used in the organic synthesis	28/06/2023	Offline	B.Sc.	84	Dr. Abhimanyu Yadav
Department: Physics							
Dr. Rajani Srivastava	Assistant Professor, Environmental Science (Environment-al Technology), Institute of Environment & Sustainable Development, RGSC, BHU, Mirzapur, India	Green Building :Building the Future with Intention	18/03/2021 11.30 AM	Online Google meet	B.Sc. III	32	Dr. Kalpana Awasthi
Dr. Sanjeev Rathore	Assistant Professor, Department of Physics., Government Degree College, Badaun	Electronics Made Simple	20/03/2021 05.00 PM	Online Google meet	B.Sc. III/ B.Sc. I	48	Mr. M.K. Vishwakarma
Dr. Kalpana Patel	Assistant Professor, SRM Institute of Science and Technology, Delhi-NCR Campus,	Semiconductors and its Basics	22/03/2021 01.00 PM	Online Google meet	B.Sc. I	45	Dr. Kalpana Awasthi

	Modinagar, Ghaziabad						
Dr. Ranjan Kumar Singh	Professor, Spectroscopy section, Department of Physics, India	Basics of Laser and It's Applications	25/03/ 2021 12.00 noon	Online Google meet	B.Sc. III	30	Dr. Priyanka Srivastava
Prof. R.S. Tiwari	Deptt. of Physics BHU Varanasi	X-ray Diffraction	14/06/2 021	Online	B.Sc. III	60	Dr. Kalpana Awasthi
Prof. S. Sairaman,	Engineering Physics, Florida Polytechnic University, USA	Hydrogen Energy: The Global Alternative Solution for Sustainable Planet	13/11/2 021	Online	B.Sc. III	55	Dr. Kalpana Awasthi
Dr. Seema Awasthi	SRA- CSIR, New Delhi School of Physics, Hydrabad University ,Hydrabad	Crystal X-Ray Diffraction	04/02/2 022	Online	B.Sc. III	100	Dr. Kalpana Awasthi
Prof. K.N.Uttam	Department of Physics, University of Allahabad	Green Energy Sources: Future Energy Source	26/02/2 022	Offline	B.Sc. I, II and III	75	Mr. Ashish Verma
Dr. T. P. Yadav	Associate Professor, Department of Physics, Allahabad University, Prayagraj	Importance of Hydrogen Energy in Near Future	18/05/ 2023	Online	B.Sc. IV Sem + Rese arch Scho lars	(60)	Dr. K. Awasthi
Dr. Mridula Tripathi	Associate Professor, Department of Chemistry, CMP Degree College, Prayagraj	Nanotechnology : A Future Aspects	20/05/ 2023	Offline	B.Sc. +M. Sc. II Sem.		Dr. S. P. Mishra & Dr. A. Kumar
Dr. Rohit Ranjan Shahi	Assistant Professor Department of Physics, Central University of South Bihar,	High Entropy Alloys for Materials for Energy Applications	14/12/ 2023	Online	B.Sc. V Sem	(70)	Mr. M.K. Vishwakarma & Dr. A. Kumar

	Gaya						
Department: Zoology							
Dr. R. K. Tiwari	Associate Prof. & Retired Principal, Govt. P. G. College, Saidabad, Allahabad	SILK WORM CULTURE	26/03/2021 11.00 am	Offline	B.Sc. III	60	Mr. P.C. Gupta
Prof. U.C. Srivastava	Former Emeritus Prof. of Zoology UoA, Allahabad Treasurer and Council Member NASI	Antioxidant-A boon for the life of Human Being	03/02/2022	Online	B.Sc. I, II and III	204	Mr. Ratnesh Kumar Soni
Prof. M. Singaravel	Department of Zoology, Institute of Science BHU, Varanasi - 221005	Innate and Learned Behaviour	11/02/2022	Online	B.Sc. I, II and III	216	Mr. Ratnesh Kumar Soni
Prof. Abhay Kumar Pandey,	Department of Biochemistry University of Allahabad	Redox regulation: an important key to healthy life	12/02/2022	Online	B.Sc. I, II and III	140	Mr. Ratnesh Kumar Soni
Prof. Ramesh Chandra	Department of Neurobiology University of Maryland Baltimore, USA	Altered Mitochondrial dynamics in brain reward circulatory in cocaine addiction	31 July 2023	Offline	B.Sc. III Sem.	65	Dr. Deepak Verma

11. Books/ Journals Subscribed from the grant

Department	S. No.	Name of the Book	Author	Number
Botany	1.	Plant Breeding	B. D. singh	01
	2.	Microbiology	Dubey and Maheshwari	01
	3.	Cell Biology	Verma	01
	4.	Microbiology	Arora	01
	5.	Bioinformatics	Bayevaus	01
	6.	Biostatistics	Prasad	01
	7.	Organic Evolution	Rastogi	01
	8.	Biotechnology	Dubey	01
	9.	Cell and Molecular Biology	Gupta	01
	10.	Plant Tissue Culture	Rajdan	01
	11.	Gene X	Krebs	01

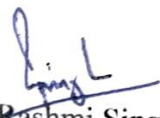
	12.	Biophysics	Pranav Kumar	02
	13.	Biotechnology	Pranav Kumar	01
	14.	Angiosperm	B.P. Pandey	01
	15.	Plant Pathology	B.P. Pandey	01
	16.	Ecology and Environment	Singh	01
	17.	Economic Botany	Jordan	01
Zoology	18.	Invertebrate Zoology	Jordan Verma	02
	19.	Chordate Zoology	Jordan Verma	02
	20.	Chordate Embryology	Verma	02
	21.	Cell Biology	Veer Bala Rastogi	02
	22.	Genetics	Veer Bala Rastogi	02
	23.	Cell Biology and Genetics	Verma and Agarwal	01
	24.	Principles of molecular biology	Veer Bala Rastogi	01
	25.	Zoology NEP IV Sem	Arya	05
	26.	Zoology NEP III Sem	Agarwal	03
Chemistry	27.	Organic Chemistry	Morrison	01
	28.	Organic Chemistry	Bruice	01
	29.	Organic Chemistry Vol.1	Finar	02
	30.	Organic Chemistry Vol.2	Finar	02
	31.	A guide book for mechanism of Organic Chemistry	Sykes	01
	32.	Inorganic Chemistry Principle of Structure and reactivity	Huheey	01
	33.	Inorganic Chemistry	Miessler	01
	34.	UGC CSIR Chemical Science	Rakesh	01
	35.	Fundamentals of Chemistry Vol.II	Jagdamba	01
Physics	36.	NEP Math, Physics and Newtonian Mech. I SE		02
	37.	NEP Physics		02
	38.	Fund. Of modern physics		01
	39.	Optics		01
	40.	Thermal Physics		01
	41.	Advance Quantum Mechanics		01
	42.	Classical Mechanics		01
	43.	Elements of Spectroscopy		01
	44.	Ess. Las. And Non linear optics		02
	45.	Hand Book of Electronics		02
	46.	Mathematical Physics		01
	47.	Relativistic Mechanics		01

	48.	Solid State Physics		01
	49.	Statistical Mechanics		01
	50.	Principles of Electronics	V. K. Mehta	01
	51.	Nuclear Physics	Tayal	02
	52.	Atomic and Mol.Spectra	Rajkumar	01
			Total	71



Prof. Ramesh Chandra Yadav
(Principal)

PRINCIPAL
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304



Dr. Rashmi Singh
(Project Co-ordinator)
Project Coordinator

DBT - Star College Scheme
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304

Annexure-1

Date: 06/08/24


To
Dr. Garima Gupta
Scientist 'F'
Unit Head and In-charge
Department of Biotechnology
Ministry of Science and Technology
Room No.510, Block-3, CGO Complex
Lodhi Road, New Delhi-110003

SUB: Request for retention of asset acquired during the project

Respected Madam

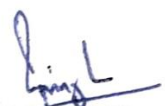
We are very grateful for providing opportunity to work under this prestigious DBT Star College Scheme. This scheme helps our students a lot in gaining experiential learning. All the four Departments, Botany, Zoology, Physics and Chemistry acquired assets during this project. These assets are highly beneficial for our students, and we want to continue the momentum of new learning gained by this scheme.

As the duration of the project is over, we request you kindly grant permission to retain assets acquired during this project.



Prof. Ramesh Chandra Yadav
(Principal)

PRINCIPAL
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304



Dr. Rashmi Singh
(Project Co-ordinator)
Project Coordinator
DBT - Star College Scheme
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304

Photo Gallery
Department of Botany



Workshop on Bioinstrumentation



Hands on Training in Plant Physiology Experiment



पौधों में लगाने वाले रोग
के विषय में दी जानकारी



चक्रेन्द्र गौड मं बुधवार को रोग से ग्रसित पीठा एकत्रित करते हैएनपीजी के विद्यार्थी

ज्ञानपुर | संवाददाता

कोआईटएंडा डा. रमेश सिंह ने छात्र छात्रओं को रोग चक्रेन्द्र डा जोरें छात्र गऊं गं प्रेम विद्यापीठ रोग ग्रसित पीठों को लेकर विद्यार्थी प्रयोगशाला चले आए। डा. रमेश सिंह ने बताया वि सरसों व पानी में उमने वाले ऐसे पीठों को एकत्रित किया गया जो कई बीमारों से ग्रसित है। रोग से प्रभावित पीठों को विद्यार्थी प्रयोगशाला में अध्ययन करे

Winter School on Plant Disease Collection and Identification



Hands on Training in laboratory instruments



Interdisciplinary workshop on Herbal Cosmetics



Latitude : 25.182331767864525°
Longitude : 82.87480621598661°
Altitude : -42.0 meters
Date : 11/27/2021 11:52 AM
Note : Educational visit to IIVR VARANASI

छात्रों के लिये साइंस विलेज फेस्टिवल व शैक्षणिक भ्रमण कार्यक्रम का आयोजन

[illegible]

अनिरुध्, अजयगिरि, गुजरातर में प्र. प्र. दिवसों के अवसर पर स्वयं कार्यक्रम का आयोजन किया गया। इस कार्यक्रम का उद्देश्य ग्रामीण शिक्षकों को विधान के निर्माण प्रक्रिया में प्रोत्साहित करना था। इस कार्यक्रम में कोलकाता के अग्रणी वकील के. राम-नाथ 158 से अधिक वकीलों के साथ सहभागी थे। कार्यक्रम के सम्पन्न होने के बाद अजयगिरि में डीपी सिंह विश्वविद्यालय के बीच सड़क काटे गए। कृता कि अपने अनुसंधान पत्रों में उन्होंने विश्वविद्यालय के प्रति विचारों को व्यक्त किया है। उन्होंने व्यक्तित्व सम्मान पत्रों के प्रसारण से शोकित थे। स्वयं सम्मान पत्रों का स्वयं ही प्रेषण किया गया। मुद्रण मशीन के त्रुटि-संशोधन के साथ ही चर्चा में प्रेषित पत्रों के साथ ही पत्रों पर प्रतिक्रिया प्रसारित की गई। स्वयं ही डॉ. रमणी शर्मा ने विश्वविद्यालय के प्रमुख प्रत्येकवार और स्वयं प्रधान के विश्वविद्यालय को रखा। डॉ. राम-नाथ के विश्वविद्यालय द्वारा बाणेश्वर में निर्माण मिलाई भी प्रस्तुत किया गया। बाणेश्वर विश्वविद्यालय को प्रभावित करने के लिए डॉ. राम-नाथ के द्वारा कार्यक्रम के स्थान पर स्थानों पर वीडियो का आधार अंतर किया और कार्यक्रम में भी इस तरह के कार्यक्रम विश्वविद्यालय में प्रसारित करने के आधार पर किया।



Field Visit to Indian Institute of Vegetable Research, Varanasi

Department of Zoology



Workshop on Micrometry and Hematology



विजय में विजेताओं का हुआ सम्मान

आमर उजला 25/02/2022

जंतु विज्ञान के छात्रों ने किया विजय

आमर उजला 25/02/2022

जंतु विज्ञान के छात्रों ने किया विजय

आमर उजला 25/02/2022

जंतु विज्ञान के छात्रों ने किया विजय

आमर उजला 25/02/2022

जंतु विज्ञान के छात्रों ने किया विजय



Educational Visit

BIO-QUIZ



Workshop on Maintenance of Laboratory Equipment for supporting staff

Photo Gallery Department of Physics



Hands on Training on Wave Formation using CRO

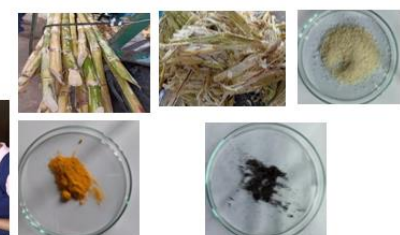
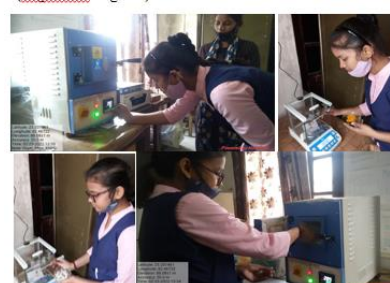
Winter School on Experimental Physics



Field Visit to Hydrogen Energy Centre, Laser and Spectroscopy Laboratory, BHU, Varanasi



Minor Research Project
Preparation of Carbon Nanomaterial (Graphene) Using Agro Waste (Sugarcane Bagasse)

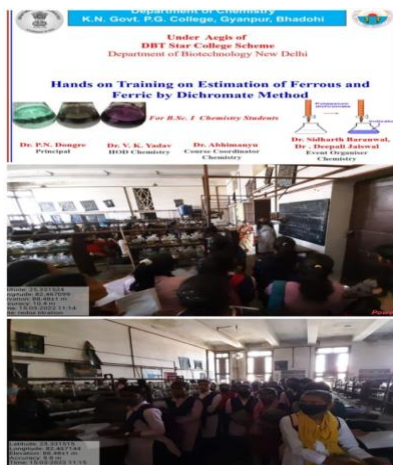


Interdisciplinary workshop on Crystal Growth

Photo Gallery Department of Chemistry



Hands on Training on Chromatography



Hands on Training on Estimation of Ferrous by Dichromate

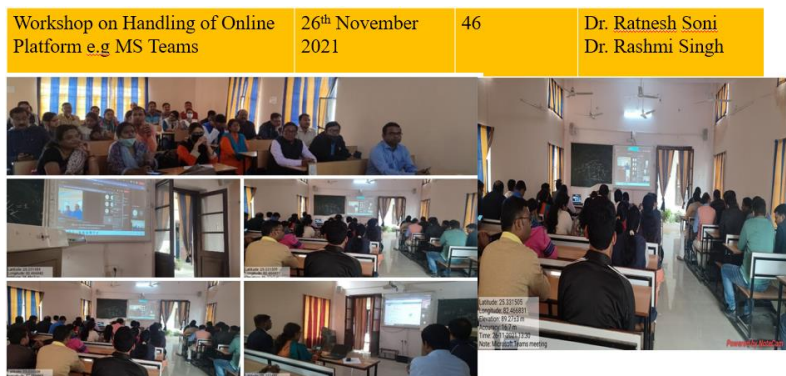
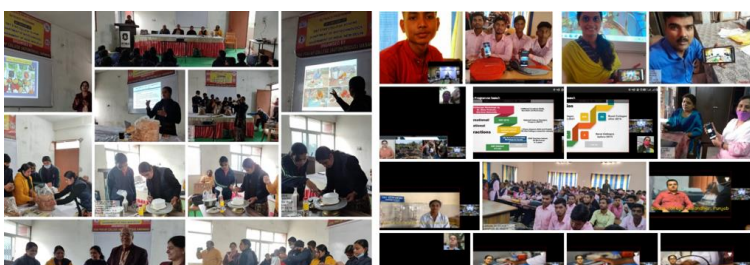


Workshop on Handling of Laboratory Reagent for supporting staff



Educational Visit

Photo Gallery- Outreach Activity



*DBT Mentorship Launch Programme, DBT
*Bioresources in solving food problem- Outreach Activity
organized by U.P. Autonomous College, Varanasi



Training on Lab Safety Measures for supporting staff



Outreach Activity for School students



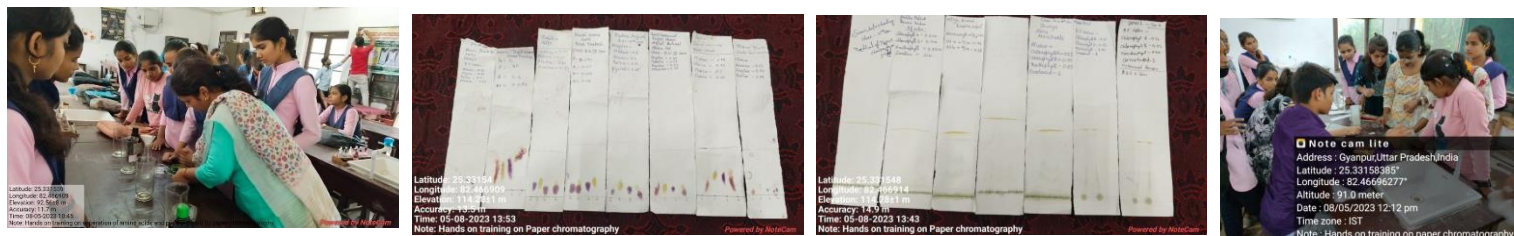
Outreach Activity for Rural People

Photo Gallery for the activities organized under DBT Star College Scheme (2023-24)

BOTANY Hands on Training



Interdisciplinary Workshop



Minor Research Project



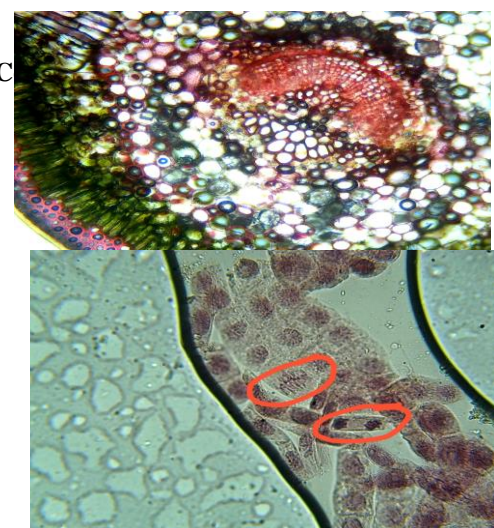
Summer School



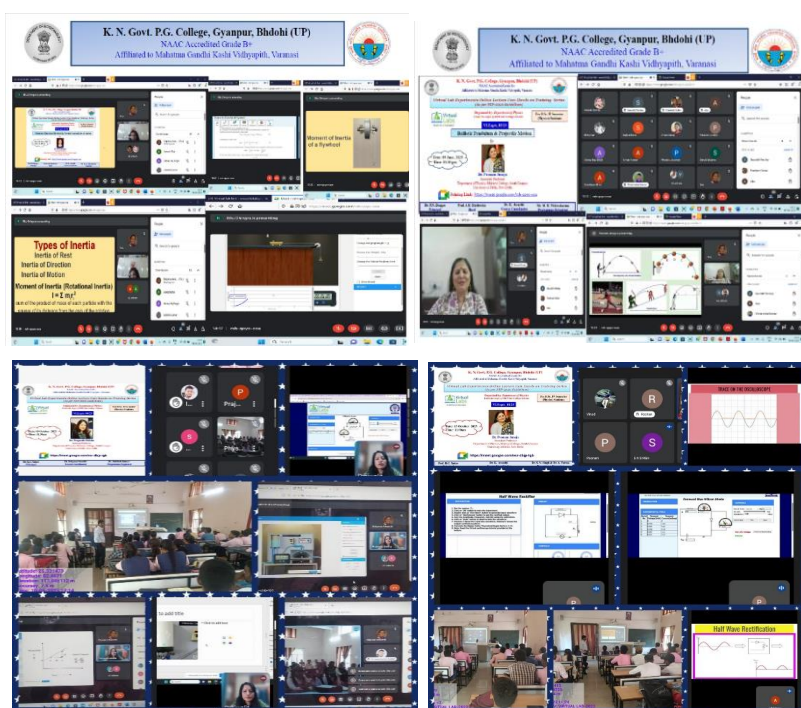
Guest Lecture



Educational Visit



Physics



Virtual Lab Experiments Online Lecture Cum Hands on Training

Department of Physics, K.N. Govt. P.G. College, Gyanpur, Bhadohi 18 May, 2023
Educational Visit to Physics Department, Allahabad University, Prayagraj

Under the Aegis of DBT Star College Scheme Department of Biotechnology, New Delhi



Educational Visit



Workshop



Invited Lecture



Winter School



Minor Research Project

Photo Gallery for the activities organized under DBT Star College Scheme

Chemistry Hands on Training



Guest Lecture



Interdisciplinary Workshop



Workshop



Field Visit



Photo Gallery for the activities organized under DBT Star College Scheme

Zoology Hands on Training



Workshops



Guest Lecture



Field Visit



Outreach Activities

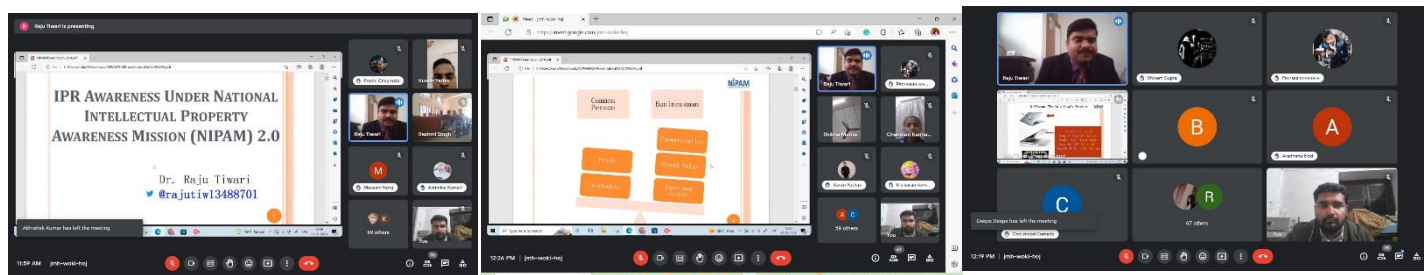


Lab Visit By School Students of Bhadohi District

Hands on Training session organized for Keshav Prasad Govt. Girls Degree College, Aurai, Bhadohi, U.P.



Staff Training



Awareness Programme on Intellectual Property Rights for Faculty and students

Exhibitions/Quiz/Poster/ Science Play



National Science Day



Exhibition on Medicinal Plants



World Ozone Day



Quiz Competition



National Energy Conservation Day

World Environment Day

प्रशिक्षण में विद्यार्थियों ने जाना पौधों के रंग व द्रव्य की विशेषता



केएनपीजी कॉलेज के वनस्पति विभाग में प्रशिक्षण लेते विद्यार्थी • जागरण

संवाद सहयोगी, ज्ञानपुर (भदोही): केएनपीजी कॉलेज ज्ञानपुर के वनस्पति विज्ञान एवं रसायन विज्ञान विभाग में शनिवार को पेपर क्रोमैटोग्राफी विषय पर हैड्स आन ट्रेनिंग का आयोजन हुआ। मुख्य अतिथि राजकीय महाविद्यालय चूना मौरजापुर के प्राचार्य डा. पीएन डोंगरे ने कहा कि क्रोमैटोग्राफी एक रासायनिक शुद्धिकरण विधि है, जो रंगीन पदार्थों को अलग करती है। पेपर क्रोमैटोग्राफी में अणुओं के विभिन्न आकार के आधार पर वर्णक को अलग किया जा सकता है। हर कोई जानता है कि पत्तियों में क्लोरोफिल होता है जो हरा होता है लेकिन पौधों में वास्तव में अन्य वर्णक अणुओं को एक विस्तृत शृंखला भी होती है। कार्यक्रम की ट्रेनर डा. शेफाली सिंह व डा. दीपाली जायसवाल ने विद्यार्थियों को इसकी सैद्धांतिक जानकारी दी। दोनों ट्रेनर ने प्रतिभागियों को इसकी प्रयोगात्मक क्रिया विधि सिखाई। कार्यक्रम का शुभारंभ प्राचार्य प्रो. रमेशचंद्र खद्वर द्वारा भी सरस्वती की मूर्ति पर माल्यार्पण के साथ किया गया।



केएनपीजी कॉलेज में गुरुवार को प्रयोगी वरीक्षा में अभिगम करते विद्यार्थी।

राष्ट्रीय विज्ञान दिवस पर प्रश्नोत्तरी में अंजली प्रथम

स्पर्धा

ज्ञानपुर, संवाददाता। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय के वनस्पति विज्ञान विभाग में गुरुवार को राष्ट्रीय विज्ञान दिवस पर प्रश्नोत्तरी प्रतियोगिता का आयोजन किया गया। इसमें डीबीटी स्टार कॉलेज के तहत आयोजित प्रतियोगिता में छात्र-छात्राओं ने प्रतिभाग किया।

विज्ञान दिवस के स्नातक स्तर के छात्र-छात्राओं ने उपस्थित होकर प्रतियोगिता किया। स्पर्धात्मक स्तर के कुल 15 प्रश्नों के अंश योगदान पर आधारित थे।

हाइड्रोपोनिक कृषि की दी जानकारी

ज्ञानपुर। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में सोमवार को डीबीटी स्टार कार्यक्रम के तहत वनस्पति विभाग की ओर से हाइड्रोपोनिकस: फार्मिंग इन वाटर विडिओ सीडिल पर एक दिवसीय हैड्स आन ट्रेनिंग का आयोजन किया गया।

मुख्य अतिथि पीजी कॉलेज अयोध्या के डॉ. केएस स्मृति ने हाइड्रोपोनिक कृषि के बारे में बताया। कहा कि इस विधि से केवल पानी और न्यूट्रिएंट्स का उपयोग करते हुए उत्पादन किया जा सकता है। उन्होंने हाइड्रोपोनिक कृषि के तकनीकी पहलुओं की जानकारी दी। हैड्स आन ट्रेनिंग सेशन में छात्र-छात्राओं ने प्लास्टिक बॉटल का दुबारा इस्तेमाल करते हुए न्यूट्रिएंट मीडियम बनाकर पौधों को उगाने की विधि सीखी। मुख्य अतिथि का प्राचार्य प्रो. पीएन डोंगरे ने स्वागत किया। डा. रवि कुमार यादव, डॉ. प्रभात श्रीवास्तव, डॉ. रश्मि सिंह आदि रहे। संवाद

समाचार सार



केएनपीजी कॉलेज में शैक्षणिक भ्रमण पर लखनऊ जाते विद्यार्थी व शिक्षक • जागरण

शैक्षणिक भ्रमण पर रवाना हुए केएनपीजी कॉलेज के विद्यार्थी ज्ञानपुर (भदोही): काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय ज्ञानपुर के बीएससी वनस्पति व जंतु विज्ञान प्रथम व चतुर्थ सेमेस्टर के छात्र-छात्राओं को गुरुवार को दो दिवसीय शैक्षणिक भ्रमण पर लखनऊ ले जाया गया। महाविद्यालय परिसर से सुबह पूरे उत्साह के साथ 40 विद्यार्थी बस से रवाना हुए। छात्र-छात्राओं को अन्य शैक्षणिक संस्थानों का भ्रमण कराकर ज्ञानवन व नई तकनीकी की जानकारी देने के उद्देश्य से भ्रमण कार्यक्रम आयोजित किया गया। नेतृत्व कर रही डा. रश्मि सिंह ने बताया कि प्रथम दिन गुरुवार को लखनऊ विश्वविद्यालय के बायो कम्पेटी लेब में वहां चल रही प्रायोगिक गतिविधियों के साथ आधुनिक उपकरणों आदि के बारे में जानकारी दी गई। दूसरे दिन भी कई संस्थानों में भ्रमण कराया जाएगा। डा. रवींद्र पांडेय, डा. रवि यादव, डा. सोम्या मिश्रा, डा. आकांक्षा कुशवाहा व धर्मेन्द्र मालवीय व अन्य थे।

औषधीय पौधों को संरक्षित करने की जरूरत



हाइड्रोपोनिक कृषि पर प्रशिक्षण लेते विद्यार्थी • जागरण

रसायनों का प्रयोग करते समय जानकारी जरूरी
ज्ञानपुर। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में शनिवार को डीबीटी स्टार स्क्रीम के तहत वनस्पति विभाग में बायो रिस्क एंड बायो सेफ्टी मैनेजमेंट विषय पर व्याख्यान का आयोजन किया गया। मुख्य वक्ता क्षेत्रीय निदेशक इन्. डॉ. यूपन त्रिपाठी ने प्रयोगशाला में कार्य करते समय बरती जाने वाली सावधानियों की जानकारी दी। कहा कि रसायनों का प्रयोग करते समय सही जानकारी का होना आवश्यक है। जिससे अच्छे परिणाम प्राप्त हो सकें। भौतिक विज्ञान विभाग की डॉ. कल्पना अवस्थी, जंतु विज्ञान विभाग के डॉ. रत्नेश सोनी, डॉ. दीपाली सिंह आदि अन्य विभागों के विभागाध्यक्षों ने भी जरूरी जानकारी साझा की। इस मौके पर जितेंद्र मौर्य, रविंद्र कुमार पांडेय, प्रतीक उपाध्याय आदि रहे। संवाद



केएनपीजी के जंतु विज्ञान विभाग में प्रशिक्षण में शामिल छात्र-छात्राएं। संवाद

विद्यार्थियों को बताया ब्लास्ट का प्रयोग

ज्ञानपुर। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में सोमवार को डीबीटी स्टार कॉलेज स्क्रीम के तहत रसायन विज्ञान विभाग में बायो ब्लास्ट विषय पर प्रशिक्षण का आयोजन किया गया। बीएससी चतुर्थ सेमेस्टर के छात्र-छात्राओं ने इसमें भाग लिया।

प्रोग्राम कोऑर्डिनेटर डॉ. रश्मि सिंह ने सरस्वती प्रतिमा पर माल्यार्पण कर शुभारंभ किया। उन्होंने स्क्रीम के महत्व को समझाया और इस प्रोग्राम के सफलता के लिए शुभकामनाएं दीं। जंतु विज्ञान विभाग के डॉ. दीपक वर्मा ने छात्र-छात्राओं को बताया कि ब्लास्ट का प्रयोग करके विभिन्न जीव जातियों में पाए जाने वाले प्रोटीन और न्यूक्लियोटाइड अनुक्रम का अध्ययन कर सकते हैं। इस मौके पर डा. रत्नेश कुमार सोनी, विवेक वर्मा, डॉ. आकांक्षा कुशवाहा, अंजनी कुमार सहित अन्य रहे। संवाद



केएनपीजी के जंतु विज्ञान विभाग में प्रशिक्षण में शामिल छात्र-छात्राएं। संवाद

छात्राओं को प्रायोगिक विधि से दी पादप कार्य की जानकारी

संवाद सहयोगी, ज्ञानपुर (भदोही): काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में सोमवार को वनस्पति विज्ञान विभाग की ओर से डीबीटी स्टार कॉलेज स्क्रीम के अंतर्गत केशव प्रसाद राजकीय महाविद्यालय और केएनपीजी कॉलेज के विद्यार्थियों के लिए कार्यशाला का आयोजन किया गया। इसमें छात्राओं को पादप कार्य की जानकारी दी गई। प्रायोगिक विधि से दी गई।

राजकीय महाविद्यालयों के विद्यार्थियों को डीबीटी स्टार कॉलेज स्क्रीम में प्राप सुविधा से लाभान्वित करने के उद्देश्य से आयोजित कार्यक्रम का शुभारंभ प्राचार्य प्रो. रमेशचंद्र यादव ने मां सरस्वती की प्रतिमा पर माल्यार्पण करके किया। डा. पद्मस्य मिश्र ने छात्राओं को अनुसंधान से जुड़ने के लिए प्रेरित किया। पौधों में होने वाले वास्तविक संज्ञान, प्रकाश संश्लेषण, श्वसन की प्रक्रिया को डीबीटी स्टार कॉलेज स्क्रीम के अंतर्गत क्रय किए गए उपकरणों को मदद से प्रदर्शित करके डा. शेफाली सिंह व डा. गीता यादव ने दिखाया। छात्राओं ने से पौधों में पाए जाने वाले वर्णकों को अलग करने की विधि व स्पेक्ट्रोफोटोमीटर की सहायता से क्लोरोफिल की मात्रा का अनुमान लगाया। वनस्पति विज्ञान की प्रयोगशाला में उपलब्ध आटोस्केप, डबल डिस्टिलेशन युक्त व इलेक्ट्रॉनिक माइक्रोस्कोप की जानकारी डा. रवि यादव को-ऑर्डिनेटर डा. रश्मि सिंह ने दी।

स्पेक्ट्रोस्कोपी के महत्व व विभिन्न सिद्धांतों पर चर्चा



कार्यशाला में जानकारी देते डा. अभिमन्यु खड्ग • जागरण

संवाद सहयोगी, ज्ञानपुर (भदोही): में होने वाले सभी व्यवस्थान एवं कार्यशाला के विषय की जानकारी महाविद्यालय ज्ञानपुर में रसयन विज्ञान विभाग की ओर से प्रकाश के आयोजनों से लाभान्वित होने के लिए प्रोत्साहित किया। डा. अयुध अहमद ने स्पेक्ट्रोस्कोपी के महत्व एवं विभिन्न सिद्धांतों पर प्रकाश डाला। आधुनिक युग में स्पेक्ट्रोस्कोपी के उपयोगिता को विस्तार से समझाया। आधार डा. अमिताभ शर्मा, डा. रजनीश द्विवेदी व अन्य थे।

शुभारंभ करते हुए प्राचार्य डा. पीएन डोंगरे ने छात्र-छात्राओं को कार्यशाला में मिलने वाली जानकारी को पूरे मनोयोग से समझने के लिए प्रेरित किया। संवाद डा. दीपाली जायसवाल ने कार्यशाला की रूपरेखा प्रकाशित की। डा. रजनीश द्विवेदी व अन्य थे।

प्रयोग से तथ्यों को समझने में होती है आसानी



केएनपीजी कॉलेज के वनस्पति विभाग में सार के तहत वनस्पति विभाग में बायो रिस्क एंड बायो सेफ्टी मैनेजमेंट विषय पर व्याख्यान का आयोजन किया गया।

संवाद सहयोगी, ज्ञानपुर (भदोही): प्रयोग ही विज्ञान का आधार है। जब तथ्यों को प्रयोग का आधार मिलता है तभी उन्हें समझने में आसानी होती है। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय ज्ञानपुर में वनस्पति विज्ञान विभाग की ओर से आयोजित सत दिवसीय समर कूल कार्यक्रम के समापन पर संगठन को प्राचार्य डा. पीएन डोंगरे ने हार्दिक बधाई दी। इस तरह के आयोजनों को छात्र-छात्राओं के लिए उपयोगी बताया।

कोऑर्डिनेटर डा. रश्मि सिंह ने कहा समर स्कूल पौधों में सेट्टोलीजिल और हिस्टोलॉजिकल अध्ययन पर आधारित था। बीएससी द्वितीय सेमेस्टर के 70 छात्र-छात्राओं ने प्रतिभाग किया। डा. रश्मि सिंह व डा. रवि कुमार यादव ने प्रशिक्षक की भूमिका निभाई। रिपोर्ट प्रस्तुतिकरण में डा. रोमेश ने बताया कि छात्र-छात्राओं ने कुछ पौधों के तने में होने वाले असमर्थन द्वितीय जड़ व कोशिका में होने वाले समर्थन विभाजन का प्रयोगकर अध्ययन किया। विशेष अतिथि भौतिक विज्ञान के अस्मिटर प्रोफेसर डा. परमेश्वर मिश्र ने कहा डीबीटी स्टार कॉलेज स्क्रीम के अंतर्गत आयोजित हो रहे कार्यक्रम ने प्रायोगिक विधि से बच्चों में विज्ञान के प्रति अभिरुचि उत्पन्न की है। प्रतिभाग छात्र-छात्राओं को प्रमाण पत्र दिया गया। डा. रश्मि सिंह व डा. रवि कुमार यादव ने मिश्र व अन्य प्राध्यापकों को धन्यवाद दिया।

विद्यार्थियों को बताया गए नैनो पदार्थ के उपयोग

ज्ञानपुर, संवाददाता। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में शनिवार को नैनोटेक्नोलॉजी की उपयोगिता पर पद्म श्री ओएन श्रीवास्तव मेमोरियल व्याख्यान का आयोजन किया गया। इसमें विद्यार्थियों को प्रकृति में विद्यमान नैनो पदार्थ के उपयोग के बारे में जानकारी दी गई। भौतिक विज्ञान में भारत सरकार के सूचना-कोमलोजी विभाग नई दिल्ली के सीजेन्य से डीबीटी स्टार कॉलेज स्क्रीम के तहत हुए कार्यक्रम में बीएससी चतुर्थ व द्वितीय सेमेस्टर के विद्यार्थी उपस्थित रहे।

रसायन विज्ञान विभाग के डा. मुकुल त्रिपाठी ने नैनो पदार्थ के गुणों व भविष्य में दैनिक जीवन में इस पदार्थ के

■ छात्रों को शोध के लिए किया गया प्रेरित

■ केएनपीजी कॉलेज में शनिवार को व्याख्यान

उपयोग के बारे में बताया। प्रकृति में विद्यमान नैनो पदार्थ की उपलब्धता का जागरूकता। नैनो टेक्नोलॉजी के क्षेत्र में हो रहे शोध के बारे में प्रकाश डालते हुए स्टूडेंट्स को इस दिशा में रिसर्च करने को प्रेरित किया। कोऑर्डिनेटर डा. कल्पना अवस्थी ने प्रो. ओएन श्रीवास्तव द्वारा दिए गए कार्य व विज्ञान क्षेत्र में योगदान की जानकारी दी डा. श्रीप्रकाश मिश्र, डा. अखिलेश कुमार रहे।

विद्यार्थियों ने कानरा महाविद्यालय में देखी प्रयोगशाला प्रयोगों से विज्ञान को बनाए रुचिकर



केएनपीजी कॉलेज के वनस्पति विभाग में प्रशिक्षण लेते विद्यार्थी • जागरण

संवाद सहयोगी, ज्ञानपुर (भदोही): काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में सोमवार को वनस्पति विज्ञान विभाग की ओर से डीबीटी स्टार कार्यक्रम के तहत वनस्पति विभाग में बायो रिस्क एंड बायो सेफ्टी मैनेजमेंट विषय पर व्याख्यान का आयोजन किया गया। बीएससी चतुर्थ सेमेस्टर के छात्र-छात्राओं ने इसमें भाग लिया।

प्रोग्राम कोऑर्डिनेटर डॉ. रश्मि सिंह ने सरस्वती प्रतिमा पर माल्यार्पण कर शुभारंभ किया। उन्होंने स्क्रीम के महत्व को समझाया और इस प्रोग्राम के सफलता के लिए शुभकामनाएं दीं। जंतु विज्ञान विभाग के डॉ. दीपक वर्मा ने छात्र-छात्राओं को बताया कि ब्लास्ट का प्रयोग करके विभिन्न जीव जातियों में पाए जाने वाले प्रोटीन और न्यूक्लियोटाइड अनुक्रम का अध्ययन कर सकते हैं। इस मौके पर डा. रत्नेश कुमार सोनी, विवेक वर्मा, डॉ. आकांक्षा कुशवाहा, अंजनी कुमार सहित अन्य रहे। संवाद

स्पेक्ट्रोस्कोपी लैब में मिला प्रशिक्षण

ज्ञानपुर, संवाददाता। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में सोमवार को वनस्पति विज्ञान विभाग की ओर से डीबीटी स्टार कार्यक्रम के तहत वनस्पति विभाग में बायो रिस्क एंड बायो सेफ्टी मैनेजमेंट विषय पर व्याख्यान का आयोजन किया गया। बीएससी चतुर्थ सेमेस्टर के छात्र-छात्राओं ने इसमें भाग लिया।

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Link of the some programme organized Under DBT Star College Scheme

1. <https://youtu.be/A4Uyex483vY>
2. <https://streetbuzz.co.in/newsapp/view/post:392492>
3. <https://streetbuzz.co.in/newsapp//view/post:396857>
4. <https://youtu.be/5YnkbuNLpPo>
5. <https://youtu.be/9EopYCBqFZ4>
6. <https://youtu.be/w1cPzdyI7RU>
7. <https://youtu.be/M3uDBoUvcEM>
8. <https://youtu.be/NGPI6aZuri0>
9. https://youtu.be/cE_vL-pSxLg
10. https://youtu.be/VEJsOI9x_x8
11. <https://youtu.be/IAhdDIgIzsc>
12. <https://youtu.be/23vf8qVkQFw>
13. <https://youtu.be/053uyF8c1dU>
14. <https://youtu.be/9GCTyHiT2KQ>
15. <https://youtu.be/HcaT8fPBLF4>
16. https://youtu.be/fzYdqfNhop0?si=p0McutMnL_j3yQWU
17. <https://youtu.be/uuboDjkxOFk?si=4u0yKrHrczdO73oq>
18. <https://youtu.be/XHXm400gDI0?si=gtdyK-OPNlndRMBx>
19. <https://youtu.be/F71N1DTvApY>
20. <https://youtu.be/VrnsTmrn6fM>
21. <https://youtu.be/0sBaUT2aazM>

Project Co-ordinator

Principal