

Department of Biotechnology

Annual Progress Report supported under Star College Scheme (2022-23)

1. Name of the College : **Kashi Naresh Government P.G. College, Gyanpur, Bhadohi**
2. Name of Coordinator, designation, Address, Phone nos. **Dr. Rashmi Singh**
Assistant Professor
Department of Botany
K. N. Govt. P.G. College, Gyanpur, Bhadohi-
221304, UP
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

3. Assessment duration : **01/04/2022 to 31/12/2023** Duration in years : 01.5 Year

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

5. Number & Date of Advisory committee meeting: **01, 21/03/2022 (Annexure II)**

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

- With the DBT Support, Departments organized minor projects as well as interdisciplinary workshops. Department of Botany organizes minor project on **green synthesis of silver nanoparticle Using Mushroom**, Department of Physics on **Preparation of graphene oxide using agro waste i.e. rice husk**.
- The field visits were conducted to research institutes under this scheme, students got exposure to newer techniques during their institutional visit. Since the students are from rural area, due to this scheme they attended such field trips and got academic and industrial exposure. The visit enhances their curiosity in research oriented studies. The visit to the **Central Instrumentation Facility, IIT(BHU) Varanasi** was organized by chemistry department, Visit to **Birbal Sahni Institute of Palaeobotany and CIMAP (Lucknow)** by Botany Department, **Department of Physics, University of Allahabad, Prayagraj** and **Department of Biochemistry, Lucknow University, Lucknow** by Department of Zoology.
- First time hands on training were carried out in such a large scale which develops critical thinking skills, real-world experience and knowledge in the students. All the departments were organized the hands on training programme for UG students. (Appendix –I)
- Due to DBT Star college scheme, the faculties got an opportunity to organize workshops, winter school/ summer school and invite the guest speakers for the students and faculty which provide a broad academic exposure to them. The guest lectures on various topics have enriched the knowledge of the faculty and students (Appendix –I)
- Outreach Activities were organized with this support to nurture school education. (Appendix-I)

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.

1. 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)								

- Proofs (S.No. 6-14 not more than 5 pages, 1.5 line spacing 11 times roman font size) to be provided duly attested by Principal and Coordinator.

2. Self evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
Chemistry	• Organized invited lectures	90	1.8
	• Field visit	100	2.0
	• Hands on training , Quiz and poster	70	1.7
	• 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

3. ZBSA Status: (Mark Check Box):


Not opened Under process Opened but not mapped on PFMS Account is functional

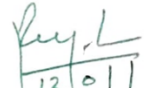
Remarks if, any:

4. Sanctioned Budget details:

(Rs. in Lakhs)

Head	Total Released Budget from DBT	Total Expenditure	Balance as on 31.12.2023	Remarks if any
Grants for creation of capital assets (Non- recurring)	40.00	40.00	00.00	
Grants-in-aid General (Recurring)	14 +13.142=27.142	22.259	4.883	The balance amount will be utilized upto 29 th Feb 2024 as per extension given by DBT to us. (Annexure III)
Total	67.142	62.259	4.883	


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


13/01/2024
Head of the Institution
(With Seal)
PRINCIPAL
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			
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			
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			
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			
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	Ballistic Pendulum & Projectile Motion	Dr. Poonam Juneja Associate Professor Department of Physics, Maitreyi College, South Campus	B.Sc. II Sem (67)

		University of Delhi, New Delhi	
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 Campus University of Delhi, New Delhi	B.Sc. IV Sem (50)

2. List of New Practical introduced in different departments

Department	Details of Experiments
Physics	<ul style="list-style-type: none"> 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"> 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 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
Zoology	<ul style="list-style-type: none"> Quantitative estimation of sugar and Protein Microtomy Polyacrylamide gel electrophoresis Thin layer Chromatography and Column Chromatography

3. Publications

Physics

- Awasthi S, Yadav TP, Awasthi K. 2023. Notable electrical and mechanical properties of polyacrylamide (PAM) with graphene oxide (GO) and single-walled carbon nanotubes (SWCNTs). Int Polymer Processing. (1-10), <https://doi.org/10.1515/ipp-2022-4295>.
- Babu S, Jeet R, Kumar A, Kumar A, Varma A. 2023. Parametric Instability of an X-mode laseroff a lower hybrid wave. Ir. J. Sci. Tech. Trans. A: Science. 46, 1719–1726.
- Kumar A, Kumar A, Mishra SP, Varma A. 2023. Electron Bernstein wave aided cosh-Gaussian laser beam absorption in plasma. Optik. 273, 170436.
- Kumar A, Mishra SP, Kumar S, Kumar A, Varma A. 2023. Excitation of electron Bernstein wave by nonlinear interaction of two copropagating Hermite-Gaussian laser beams in collisional plasma with static magnetic field. Opti. Quant. Elect. (Accepted).
- Kushwaha AK, Chauhan S, Mishra SP, Yadav VK, Ahmed R, Ul Haq B. 2023. Interatomic interactions, zone-centre phonons and elastic properties of mixed pyrochlore

- A₂GaSbO₇ (A= Y, Dy and Gd): a theoretical study. *Bull Mater Sci.* 46(1):25.
- **Kushwaha AK**, Genç AE, Özdemir AL, Güler M, Uğur ŞU. 2023. Study of Structural, optoelectronic and elastic properties of MAX phase of Ti₂BrX (X= B, C and N) by density functional theory. *Inorg Chem Commun.* 150:110515.
 - **Kushwaha AK**, Khan W, AlQahtani HR, Laref A, Monir ME, Nya FT, Chowdhury S, Alghamdi EA, Huang HM, Xiong YC, Yang JT. 2023. First-principles assessments of the electronic, and magneto-optical characteristics of Fe–Mn co-doped anatase TiO₂ for photocatalysis applications. *Solid State Commun.* 360:115059.
 - **Srivastava P.** 2023. Effect of Lead Fluoride on Spectroscopic Properties of Dy³⁺ Doped Borate Based Glasses for Yellow Luminescent Device Application . *J. Appl. Spect.* 90(1): 141-150.
 - Yadav TP, **Awasthi KA.** 2022. Carbon nanomaterials: Fullerene to graphene. *Transactions of the Indian National Academy of Engineering* (2022)7:715–737.
 - **Varma A**, Kumar A. 2022. Electron Bernstein wave aided heating of collisional nanocluster plasma by nonlinear interactions of two super-Gaussian laser beams. *Laser Phys.* 32, 016001
 - Gagui S, Meradji H, Ghemid S, Naeem S, Haq BU, Ahmed R, **Kushwaha AK.** 2023. Analysis of phase stability, elastic, electronic, thermal, and optical properties of Sc_{1-x}Y_xN via ab initio methods. *J Mol Model.* (1):14.
 - Shaw AK, Chakraborty A, Kamran M, Ghara R, Choudhuri S, Ali SS, Pal S, Ghosh A, **Kumar J**, Dutta P, Sarkar AK. 2023. Probing early Universe through redshifted 21-cm signal: Modeling and observational challenges. *J Astrophys Astron.* 44(1):4.
 - Babu S, Jeet R, Kumar A, Kumar A, **Varma A.** 2022. Decay instability of X-mode laser into upper hybrid and electron Bernstein waves in a plasma. *Optical and Quantum Electronics* 54, 710.
 - Karwasara H, Bhamu KC, Kang SG, **Kushwaha AK**, Rai DP, Sappati S, Sahariya J, Soni A. 2022. Ab-initio investigations for structural, mechanical, optoelectronic, and thermoelectric properties of Ba₂SbXO₆ (XNb, Ta) compounds. *J Alloys Compd.* 893:162332.
 - Kumar A, Kumar A, Mishra SP, Yadav MS, **Varma A.** 2022. Plasma wave aided heating of collisional nanocluster plasma by nonlinear interaction of two high power laser beams. *Optical and 2017. Adv Space Res.* 69(7):2659-70.
 - **Kumar A**, Pratap V, Kumar S, Singh AK. 2022. Atmospheric aerosols properties over Indo-Gangetic Plain: A trend analysis using ground–Truth AERONET data for the year 2009
 - Moutassem M, Seddik T, Mohammed DS, Batouche M, Khachai H, Khenata R, Ahmed R, Srivastava V, Bouhemadou A, **Kushwaha AK**, Bin Omran S. 2022. Metal to semiconductor transition and figure of merit enhancement of Li₂CuAs compound by Na substitution. *Bull Mater Sci.* 45(3):110.
 - Pooja K, Pandey AP, **Awasthi K**, Tripathi M, Chawla P. 2022. Development of polymer electrolyte based on graphite/MWNTs fillers for sustainable dye-sensitized solar cell. *Chemical Papers* 76:7623-7632.
 - Shivesh K, Alam I, **Kushwaha AK**, Kumar M, Singh SV. 2022. Investigating the theoretical performance of Cs₂TiBr₆ based perovskite solar cell with La doped BaSnO₃ and CuSbS₂ as the charge transport layers. *Int J Energy Res.* (5):6045-64

Published Edited Books:

- *Materials Science: A Field of Diverse Industrial Applications*, Editors: Arti Srivastava,

Mridula Tripathi, **Kalpna Awasthi** and Subhash Banerjee pp.1-170; Bentham Science (2023).

- Material Science: Future Aspects, Editors: **Kalpna Awasthi**, Arti Srivastava and Mridula Tripathi, Publisher: NOVA Science Publisher Inc, New York, ISBN: 978-1-53619-798-3 (2022) pp 1-261.
- Physical and Biological Sciences: Know- how Social Solicitation, Editors: Mridula Tripathi, Arti Srivastava, **Kalpna Awasthi**, Hemlata Pant, Priyanka Chawla Publisher: Krishna Computer Sansthan, Prayagraj, ISBN: 978-81-956345-9-0 (2022) pp.1-331.
- Perspective of Environmental Sciences, Editors: Deepak Kumar Srivastava, N. L. Singh, **S. P.Mishra**, Publisher: Global Academic Society of India, Lucknow, ISBN: 978-81-959099-0-2 (2022) pp. 1-195.

Botany

- **Ravi Kumar Yadav, Nishant Singh, Manish Kumar Singh, Jyotsana Raghuvanshi and Zeba Azim. 2024.** Green synthesis of nano iron oxide using *Emblica officinalis* L.fruit extract and its impact on growth, chlorophyll content and metabolic activity of *Solanum lycopersicum* 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 *Phyllanthus emblica* l. Fruit extract and its impact on growth, pigment content and antioxidant enzyme activity of *brassica oleracea var italica*. 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

Chemistry

- *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 light induced 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) as sustained 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.

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. 78-93-91152-76-5 (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).

Zoology

- 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

Physics

- **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.

Botany

- **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.

Chemistry

- **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

Zoology

- **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	Date	Class	No. of Beneficiaries	Organizer
Department: Zoology					
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					
IIT(BHU) Varanasi	Institute visit in Central Instrumentation Facility		B.Sc. Vth Sem	60	Dr. Dharendra Kumar Dr. Nikhil Kumar Singh

					Dr. Sidharth Baranwal
Department of Botany					
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					
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

6. Details of organized workshops and winter school/summer school

Workshop/ Winter school	Topic	Date	Online/ offline	Class and no . of Benef- iciaries	Organizer
Summer School (Botany)	Cytological and Histological Techniques	17-23 rd May 2023	Off-line	B.Sc. III Sem 140	Dr. Shefali Singh and Dr. Ravi Kumar Yadav
Workshop (Chemistry)	spectroscopic techniques	25-30 th May 2023	Off-line	B.Sc. I and IIIrd 132	Dr. Vinod Kumar Yadav, Dr. Abhimanyu Yadav
Winter School (Chemistry)	Winter School on Equipment Handling & training	13-20 th February 2023	Offline	B.Sc.I (300)	Dr. Vinod Kumar Yadav, Dr. Abhimanyu Yadav
Winter School (Physics)	Fundamental of Optics and Applied Electromagnetics	08-14 Feb. 2023	offline	B.Sc. III Semester (81)	Dr. S. Singh & Dr. A. Varma

Workshop (Physics)	Basic Physics: Tools and Techniques	16-18 May 2023	Offline	B.Sc. II Semester (80)	Dr. Priyanka Srivastava & Dr. Akhilesh Kumar
Workshop (Zoology)	workshop on DNA Isolation	07 June 2023	Offline	B.Sc. IV Sem. (80)	Dr. Shubha Shrivastava
Workshop (Zoology)	Biological Database and its application	21 June 2023	Offline	B.Sc. IV Sem. 85	Dr. Deepak Verma
Workshop (Zoology)	study of Drosophila mutant and its significance	14 December 2023	Offline	B.Sc. I Sem. 76	Dr. Vivek Verma
Workshop (Zoology)	Isolation of DNA fragment by Agarose gel Electrophoresis	12 October 2023	Offline.	B.Sc. II Sem 180	Dr. Akanksha Kushwaha

7. Quiz- Poster Competition/ science exhibitions details

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	24th	Quiz	B.Sc.	Dr. Rashmi Singh

Scientist Contribution	February 2023	Competition	(50)	
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. No.	Department	Class and no . Beneficiaries
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.	Isolation of Soil Bacteria and their identification	B.Sc. I (10)
4.	Studies on River Pollution of District Bhadohi	B.Sc. V (10)
Department: Physics		
5.	Preparation of graphene oxide using agro waste i.e. rice husk	B.Sc. III (10)
6.	Impact of graphene oxide on plant growth	B.Sc. V (10)
7.	Laser induced scattering in leaf extract in organic medium	B.Sc. III (10)
8.	Assembling of electronic devices on bread board	B.Sc. V (10)
Zoology		
9.	Biochemical analysis of Gyanpur Hariharnath pond	B.Sc. III (20)
10.	seasonal variability of phyto and zooplankton of Gyanpur hariharnath pond	B.Sc. I (20)
11.	Morphogenetic trait variations among the population of Bhadohi district.	B.Sc. IV (20)
Chemistry		
12.	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.	Laboratory Staff Training	Preservation of collected materials	01/02/2023	05
2.	Supporting Staff	Safety measures	08/12/2023	06
3.	School students (11 th standard)	Science Laboratory	16/05/2023	54

		Visit		
4.	Other College Students	Hands on Training in some Life Science Experiments	12/10/2023	52
5.	Faculty and Students	Guest Lecture on Intellectual Property Rights	23/02/2023	80

10. Details of invited lectures (Online/offline mode) organized upto December 2023:

Resource Person	Designation & Affiliation	Lecture Topic	Date and time	Platform (Online /offline)	Class	No. of Beneficiaries	Organizer
Department: Botany							
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							
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	Assistant Professor,	Fluorescent spectroscopy	28/06/2023	Offline	B.Sc.	84	Dr. Abhimanyu Yadav

Chandra	Department of Chemistry, Bundelkhand University Jhansi	and its Applications					
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. 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 + Research Scholars	(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, Gaya	High Entropy Alloys for Materials for Energy Applications	14/12/2023	Online	B.Sc. V Sem	(70)	Mr. M.K. Vishwakarma & Dr. A. Kumar
Department: Zoology							
Prof. Ramesh Chandra	Department of Neurobiology University of Maryland Baltimore, USA	Altered Mitochondrial dynamics in brain reward circuitry 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
	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

Botany	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
Zoology	17.	Economic Botany	Jordan	01
	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

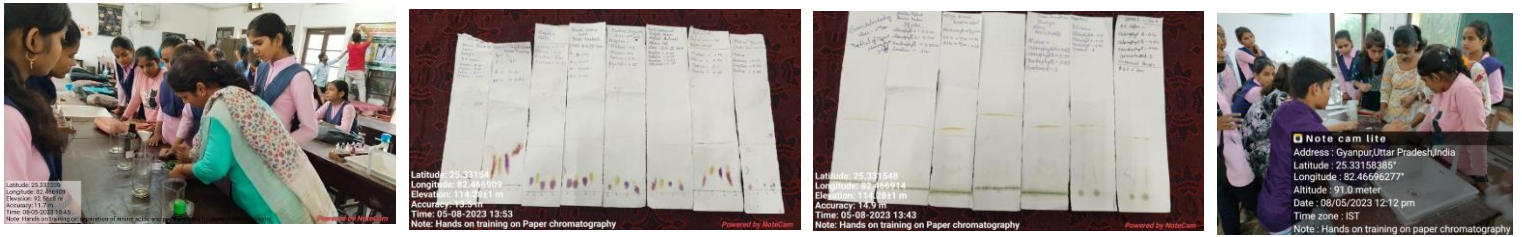
	51.	Nuclear Physics	Tayal	02
	52.	Atomic and Mol.Spectra	Rajkumar	01
			Total	71

Photo Gallery for the activities organized under DBT Star College Scheme

BOTANY
Hands on Training



Interdisciplinary Workshop



Minor Research Project



Summer School



Guest Lecture



Educational Visit

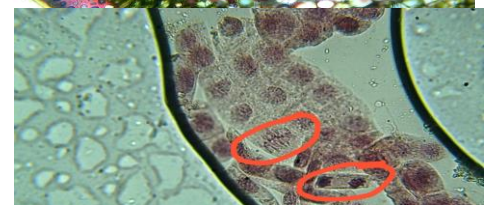
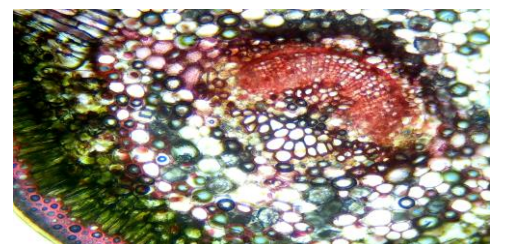
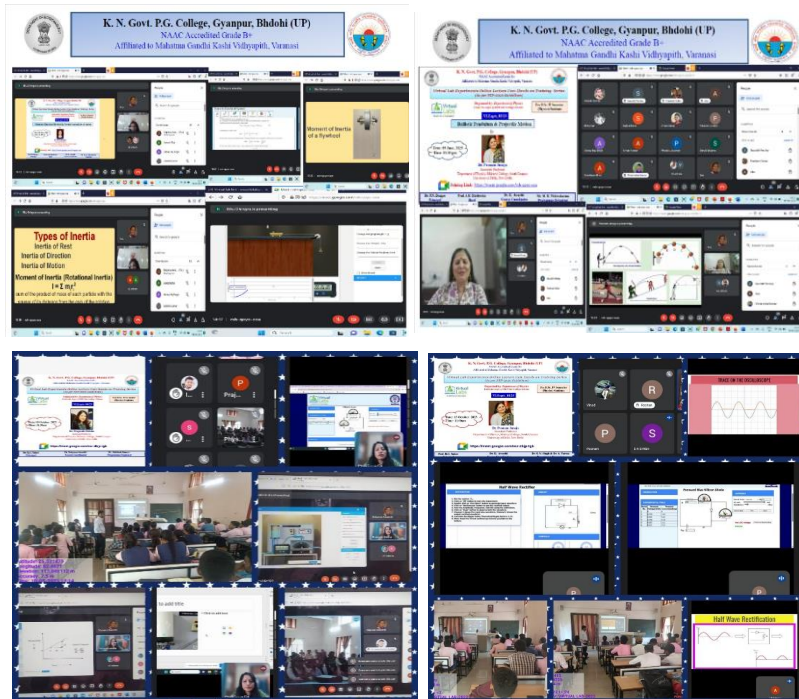


Photo Gallery for the activities organized under DBT Star College Scheme Physics



**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



Invited Lecture



Winter School



Minor Research Project

Workshop

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



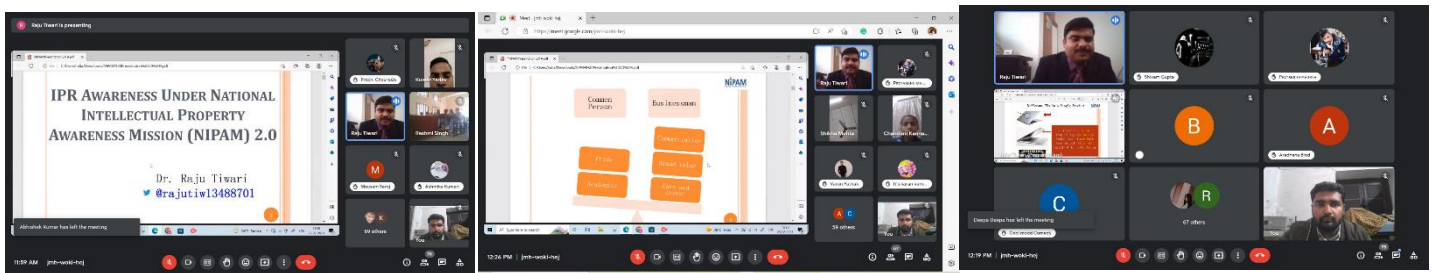
Lab Visit By School Students of Bhadohi District



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



World Ozone Day



Exhibition on Medicinal Plants



Quiz Competition



News Paper Coverage

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



केएनपीजी कालेज के वनस्पति विभाग में प्रशिक्षण लेते विद्यार्थी।

केएनपीजी कालेज के वनस्पति विभाग में प्रशिक्षण लेते विद्यार्थी। जगदण्ड
संवाद सहयोगी, ज्ञानपुर (भदोही): केएनपीजी कालेज ज्ञानपुर के वनस्पति विभाग एवं रसायन विज्ञान विभाग में शनिवार को पेपर क्रोमेटोग्राफी विषय पर हँड्स आन ट्रेनिंग का आयोजन हुआ। मुख्य अतिथि राजकीय महाविद्यालय चूना मीरजापुर के प्राचार्य डा. पीएन डोंगरे ने कहा कि क्रोमेटोग्राफी एक रासायनिक शुद्धिकरण विधि है, जो रंगीन पदार्थों को अलग करती है। पेपर क्रोमेटोग्राफी 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 को ट्रेनर डा. शेफाली सिंह व डा. दीपाली जयसवाल ने विद्यार्थियों को इसकी सैद्धांतिक जानकारी दी। दोनों ट्रेनर ने प्रतिभागियों को इसकी प्रयोगात्मक क्रिया विधि सिखाई। कार्यक्रम का शुभारंभ प्राचार्य प्रो. रमेशचंद्र खद्वे द्वारा मां सरस्वती की मूर्ति पर माल्यार्पण के साथ किया गया।



राष्ट्रीय विज्ञान दिवस पर प्रश्नोत्तरी में अंजली प्रथम

राष्ट्रीय विज्ञान दिवस पर प्रश्नोत्तरी में अंजली प्रथम

राष्ट्रीय विज्ञान दिवस पर प्रश्नोत्तरी में अंजली प्रथम
विज्ञान वर्ग के स्नातक स्तर के छात्र-छात्राओं ने उत्साहित होकर प्रतियोगिता में भाग लिया। कुल 15 प्रश्नों के अंश में अंजली प्रथम रहीं। प्रतियोगिता के परिणाम घोषित किया गया। प्रतियोगिता में अंजली सिंह प्रथम, विद्यालयाध्यक्ष व कल्याण मिश्र ने तृतीय स्थान हासिल की। विजेता विद्यार्थियों में प्रमाण प्रथम शिवरत्न किया गया। इस मौके पर डा. रवि कुमार यादव, डा. रश्मि सिंह, रोमेशचंद्र सिंह, डा. सोमेश मिश्रा, डा. रविंद्र कुमार पांडेय आदि उपस्थित थे।

समाचार सार



केएनपीजी कालेज से शैक्षणिक भ्रमण पर लखनऊ जते विद्यार्थी व शिक्षक

शैक्षणिक भ्रमण पर रवाना हुए केएनपीजी कालेज 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 ज्ञानवर्धन व नई तकनीकी 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 कमेटी लैब 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. रा. रवि यादव, डा. सोमा मिश्रा, डा. आकांक्षा कुशवाहा व वमदे मालवीय व अन्य थे।

स्पेक्ट्रोस्कोपी के महत्व व विभिन्न सिद्धांतों पर चर्चा



कारागाला में जानकारी देते डा. अभिमान जयराज

संवाद सहयोगी, ज्ञानपुर (भदोही) : में होने वाले सभी व्यख्यान एवं कार्यागाला के विषय को जानकारी महाविद्यालय ज्ञानपुर में रसायन विज्ञान विभाग की ओर से स्पेक्ट्रोस्कोपी तकनीक विषय पर पांच दिवसीय कार्यागाला का शुभारंभ गुरुवार को किया गया। शुभारंभ करते हुए प्राचार्य डा. पीएन डोंगरे ने छात्र-छात्राओं को स्पेक्ट्रोस्कोपी में मिलने वाली जानकारी को पूरे मानवयोग से समझने के लिए प्रेरित किया। संचालक डा. दीपाली जयसवाल ने कार्यागाला को रूपरेखा प्रकाशित किया। डा. ओमप्रकाश, डा. निखिल सिंह, डा. अभित शर्मा, डा. रमेशचंद्र खद्वे व अन्य थे।

हाइड्रोपोनिक कृषि की दी जानकारी

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 विंडाउट सॉल्यूशन पर एक दिवसीय हँड्स ऑन ट्रेनिंग का आयोजन किया गया। मुख्य अतिथि पीजी कॉलेज अयोध्या के डॉ. केएस स्मॉकले 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। हँड्स ऑन 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। डॉ. रवि कुमार यादव, डॉ. प्रभात श्रीवास्तव, डॉ. रश्मि सिंह आदि रहे। संवाद

औषधीय पौधों को संरक्षित करने की जरूरत



संरक्षित करने की जरूरत है औषधीय पौधों को

औषधीय पौधों को संरक्षित करने की जरूरत
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 इनु डॉ. यूएन त्रिपाठी ने प्रयोगशाला में कार्य करते समय बर्तनी जाने वाली सावधानियों की जानकारी दी। कहा कि रसायनों का प्रयोग करते समय सही जानकारी का होना आवश्यक है। जिससे अच्छे परिणाम प्राप्त सुझाव बनी रहे। भौतिक विज्ञान विभाग की डॉ. कल्पना अवस्थी, जंतु विज्ञान विभाग के डॉ. रत्नेश सोनी, डॉ. दीपाली सिंह व अन्य विभागों के विभागाध्यक्षों ने भी जरूरी जानकारी साझा की। इस मौके पर जितेंद्र मोर्या, रविंद्र कुमार पांडेय, प्रतीक उपाध्याय आदि रहे। संवाद

रसायनों का प्रयोग करते समय जानकारी जरूरी



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

केएनपीजी के जंतु विज्ञान विभाग में प्रशिक्षण में शामिल छात्र-छात्राएं। 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 सिक्वेन्स एनालिसिस बाय यूजिंग ब्लास्ट विषय पर प्रशिक्षण का आयोजन किया गया। बीएससी चतुर्थ सेमेस्टर के छात्र-छात्राओं ने इसमें भाग लिया। प्रोग्राम को ऑर्डिनेटर डॉ. रश्मि सिंह ने सरस्वती प्रतिभा 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 डॉ. रत्नेश कुमार सोनी, विवेक वर्मा, डॉ. आकांक्षा कुशवाहा, अंजनी कुमार सहित अन्य रहे। संवाद

प्रयोग से तथ्यों को समझने में होती है आसानी



केएनपीजी कालेज के वनस्पति विभाग में संवाद सहयोगी के समान पर छात्रों को प्रमाण पर देते

प्रयोग से तथ्यों को समझने में होती है आसानी
संवाद सहयोगी, ज्ञानपुर (भदोही) : डा. शेफाली सिंह व प्राचार्य प्रो. रमेशचंद्र खद्वे ने प्रशिक्षण की तैयारी में छात्र-छात्राओं को प्रयोग के आधार पर मिलने वाली तथ्यों को समझने में आसानी होती है। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय ज्ञानपुर में वनस्पति विज्ञान विभाग की ओर से आयोजित शत दिवसीय समर स्कूल कार्यक्रम के समापन पर संयोजक को प्राचार्य डा. पीएन डोंगरे ने यह बात कही। इस तरह के आयोजनों को छात्र-छात्राओं के लिए उपयोगी बताया। कोर्स कोऑर्डिनेटर डा. रश्मि सिंह ने कहा समर स्कूल पौधों में सद्योतीलाजिक और हिस्टोलॉजिकल अध्ययन पर आधारित था। बीएससी द्वितीय सेमेस्टर के 70 छात्र-छात्राओं ने प्रशिक्षण लिया। डा. शेफाली सिंह व प्राचार्य प्रो. रमेशचंद्र खद्वे ने प्रशिक्षण की तैयारी में छात्र-छात्राओं को प्रयोग के आधार पर मिलने वाली तथ्यों को समझने में आसानी होती है। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय ज्ञानपुर में वनस्पति विज्ञान विभाग की ओर से आयोजित शत दिवसीय समर स्कूल कार्यक्रम के समापन पर संयोजक को प्राचार्य डा. पीएन डोंगरे ने यह बात कही। इस तरह के आयोजनों को छात्र-छात्राओं के लिए उपयोगी बताया। कोर्स कोऑर्डिनेटर डा. रश्मि सिंह ने कहा समर स्कूल पौधों में सद्योतीलाजिक और हिस्टोलॉजिकल अध्ययन पर आधारित था। बीएससी द्वितीय सेमेस्टर के 70 छात्र-छात्राओं ने प्रशिक्षण लिया।

विद्यार्थियों ने कानरा महाविद्यालय में देखी प्रयोगशाला

विद्यार्थियों ने कानरा महाविद्यालय में देखी प्रयोगशाला
संवाद सहयोगी, ज्ञानपुर (भदोही) : काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय के विद्यार्थियों ने कानरा महाविद्यालय में प्रयोगशाला का दौरा किया। प्रयोगशाला में विद्यार्थियों को प्रयोगों से विज्ञान को बनाएं रुचिकर



प्रयोगों से विज्ञान को बनाएं रुचिकर

प्रयोगों से विज्ञान को बनाएं रुचिकर
संवाद सहयोगी, ज्ञानपुर (भदोही) : काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय के विद्यार्थियों ने कानरा महाविद्यालय में प्रयोगशाला का दौरा किया। प्रयोगशाला में विद्यार्थियों को प्रयोगों से विज्ञान को बनाएं रुचिकर

स्पेक्ट्रोस्कोपी लैब में मिला प्रशिक्षण

स्पेक्ट्रोस्कोपी लैब में मिला प्रशिक्षण
ज्ञानपुर, संवादसहाय। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय के विद्यार्थियों ने स्पेक्ट्रोस्कोपी लैब में प्रशिक्षण का आयोजन किया। प्रशिक्षण में विद्यार्थियों को स्पेक्ट्रोस्कोपी लैब में प्रशिक्षण का आयोजन किया। प्रशिक्षण में विद्यार्थियों को स्पेक्ट्रोस्कोपी लैब में प्रशिक्षण का आयोजन किया।

छात्राओं को प्रायोगिक विधि से दी पादप कार्य की जानकारी

छात्राओं को प्रायोगिक विधि से दी पादप कार्य की जानकारी
संवाद सहयोगी, ज्ञानपुर : काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में वनस्पति विज्ञान विभाग की ओर से डीबीटी स्टार कालेज स्क्रीम के अंतर्गत केशव प्रसाद राजकीय महाविद्यालय और डॉ. सोमेश मिश्र ने तृतीय स्थान हासिल की। विजेता विद्यार्थियों में प्रमाण प्रथम शिवरत्न किया गया। इस मौके पर डा. रवि कुमार यादव, डा. रश्मि सिंह, रोमेशचंद्र सिंह, डा. सोमेश मिश्रा, डा. रविंद्र कुमार पांडेय आदि उपस्थित थे।

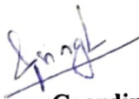
विद्यार्थियों को बताया गए नैनो पदार्थ के उपयोग

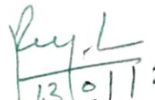
विद्यार्थियों को बताया गए नैनो पदार्थ के उपयोग
ज्ञानपुर। काशी नरेश राजकीय स्नातकोत्तर महाविद्यालय में शनिवार को नैनोटेक्नोलॉजी की उपयोगिता पर पद्मश्री ओएन श्रीवास्तव ने मेमोरियल व्याख्यान का आयोजन किया गया। इसमें विद्यार्थियों को प्रकृति में विद्यमान नैनो पदार्थों के उपयोग के बारे में जानकारी दी गई। भौतिक विज्ञान में भारत सरकार बायोटेक्नोलॉजी विभाग नई दिल्ली के सौजन्य से डीबीटी स्टार कालेज स्क्रीम के तहत हुए कार्यक्रम में बीएससी चतुर्थ व द्वितीय सेमेस्टर के विद्यार्थियों उपस्थित रहे। रसायन विज्ञान विभाग के डा. मुकुल त्रिपाठी ने नैनो पदार्थों के गुणों व भविष्य में दैनिक जीवन में इस पदार्थ के

उपयोग के बारे में बताया। प्रकृति में विद्यमान नैनो पदार्थों की उपलब्धता का जांच किया। नैनो टेक्नोलॉजी के क्षेत्र में हो रहे शोध के बारे में प्रकाश डालते हुए स्ट्रूट्स के 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। श्रीकांक्षा मिश्र, डा. अखिलेश कुमार रहे।

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_vI-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_j3vQWU
17. <https://youtu.be/uuboDjxOFk?si=4u0vKrHrczdO73oq>
18. <https://youtu.be/XHXm400gDI0?si=gtdyK-OPNlndRMBx>
19. <https://youtu.be/F71N1DTvApY>
20. <https://youtu.be/VrnsTmrn6fM>
21. <https://youtu.be/0sBaUT2aazM>


Course Coordinator
Project Coordinator
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13/01/2024
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