

Department of Biotechnology

Annual Progress Report supported under Star College Scheme (2023-24)

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 : **01/04/2023 to 31/03/2024** Duration in years : 01 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):

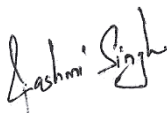
Not opened ☐ Under process ☐ Opened but not mapped on PFMS ☐ Account is functional ☒


Remarks if, any:

4. Sanctioned Budget details:

(Rs. in Lakhs)

| Head | Total Released Budget from DBT | Total Expenditure | Balance as on 31.03.2024 | 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 | 27.142 | 00.00 | |
| Total | 67.142 | 67.142 | 00.00 | |


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


(Prof. Ramesh Chandra Yadav)
Principal
K.N. Govt. P.G. College
Gyanpur (Bhadohi)-221304

Annexure -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 | | | |
| 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) |
| 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 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 | B.Sc. IV Sem (50) |

| | | | |
|--|--|--|--|
| | | Department of Physics, Maitreyi College, South Campus University of Delhi, New Delhi | |
|--|--|--|--|

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 Preparation of mitotic and meiotic slides |
| 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 laser off 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 photo-

catalysis 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, **Kalpana Awasthi** and Subhash Banerjee pp.1-170; Bentham Science (2023).
- Material Science: Future Aspects, Editors: **Kalpana 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, **Kalpana 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 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) assisted 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 | 13/07/2023 | B.Sc. IInd Sem | 40 | Dr. Ravindra Pandey |

| | | | | | |
|--|---|----------------|----------------------|----|---------------------------------|
| | scope of palaeobotany | | | | |
| 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 |
| 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 Decembe r 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 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 |
| National Science Day | 28 Feb.2024 | Quiz , Model competition | B.Sc. (60) | Dr. S. P. Mishra Dr. Akhilesh Kumar |
| Botany | | | | |
| Activity | Date | Programme details | Class and no. of Beneficiaries | Organizers |
| 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 of 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) |
| Botany-Physics | Green synthesis of Nano-particles | B.Sc. V (60) |

9. Outreach activities :

| S.No. | Target Audience | Topic | Date | No .of beneficiary |
|-------|---|--|------------|--------------------|
| 1. | Supporting Staff | Safety measures | 08/12/2023 | 06 |
| 2. | School students (11 th standard) | Science Laboratory Visit | 16/05/2023 | 54 |
| 3. | Other College Students | Hands on Training in some Life Science Experiments | 12/10/2023 | 52 |

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. 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 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. 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 |
|------------|--------|---|----------------------------|--------|
| Botany | 1. | Plant Breeding | B. D. singh | 01 |
| | 2. | Microbiology | R.C.Dubey and Maheshwari | 01 |
| | 3. | Cell Biology | P.S.Verma and Agarwal | 01 |
| | 4. | Microbiology | Arora and Arora | 01 |
| | 5. | Bioinformatics | Baxevanis & Ouelletle | 01 |
| | 6. | Biostatistics | Satguru Prasad | 01 |
| | 7. | Organic Evolution | Veer Bala Rastogi | 01 |
| | 8. | Biotechnology | R.C. Dubey | 01 |
| | 9. | Cell and Molecular Biology | P. K. Gupta | 01 |
| | 10. | Plant Tissue Culture | M. K. 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 | J.S. Singh and S. R. Gupta | 01 |
| | 17. | Economic Botany | Jordan, Chauhan | 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 | Singh, Dwivedi | 02 |
| | 37. | NEP Physics | Singh, Dwivedi | 02 |
| | 38. | Fund. Of modern physics | Agrwal & Agrwal | 01 |
| | 39. | Optics | Ajoy Ghatak | 01 |

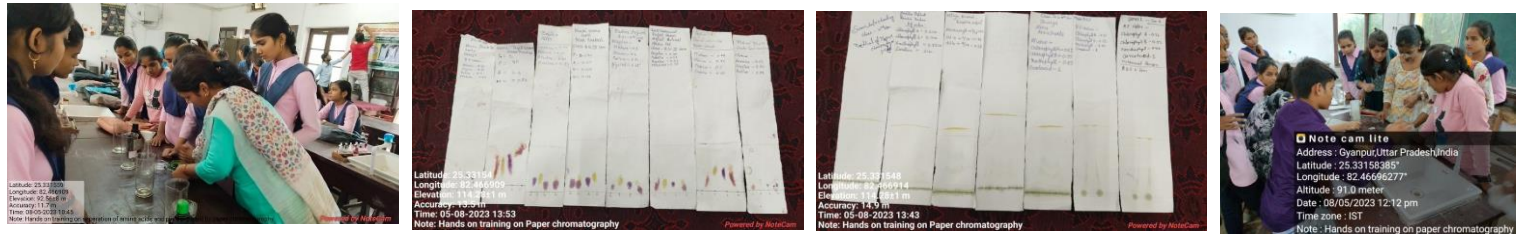
| | | | | |
|--|------------|---------------------------------|--------------------------------|-----------|
| | 40. | Thermal Physics | Agrawal and Prakash | 01 |
| | 41. | Advance Quantum Mechanics | B.S. Rajput | 01 |
| | 42. | Classical Mechanics | Gupta and Kumar | 01 |
| | 43. | Elements of Spectroscopy | Gupta, Kumar and Sharma | 01 |
| | 44. | Ess. Las. And Non linear optics | G. D. Baruah | 02 |
| | 45. | Hand Book of Electronics | Gupta and Kumar | 02 |
| | 46. | Mathematical Physics | B.S. Rajput | 01 |
| | 47. | Relativistic Mechanics | Satya Prakash and K. P. Gupta | 01 |
| | 48. | Solid State Physics | Saxena, Gupta, Saxena & Mandal | 01 |
| | 49. | Statistical Mechanics | Gupta and Kumar | 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



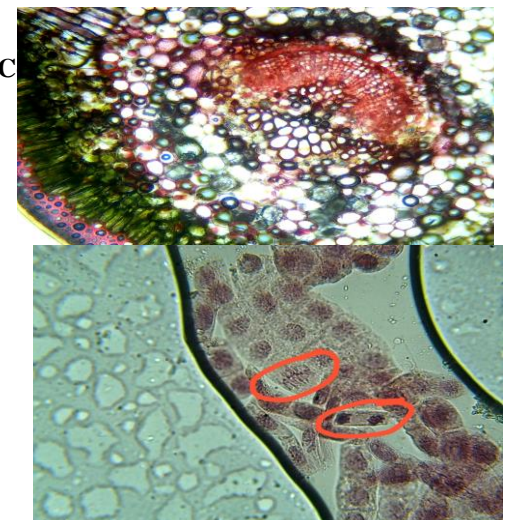
Summer School



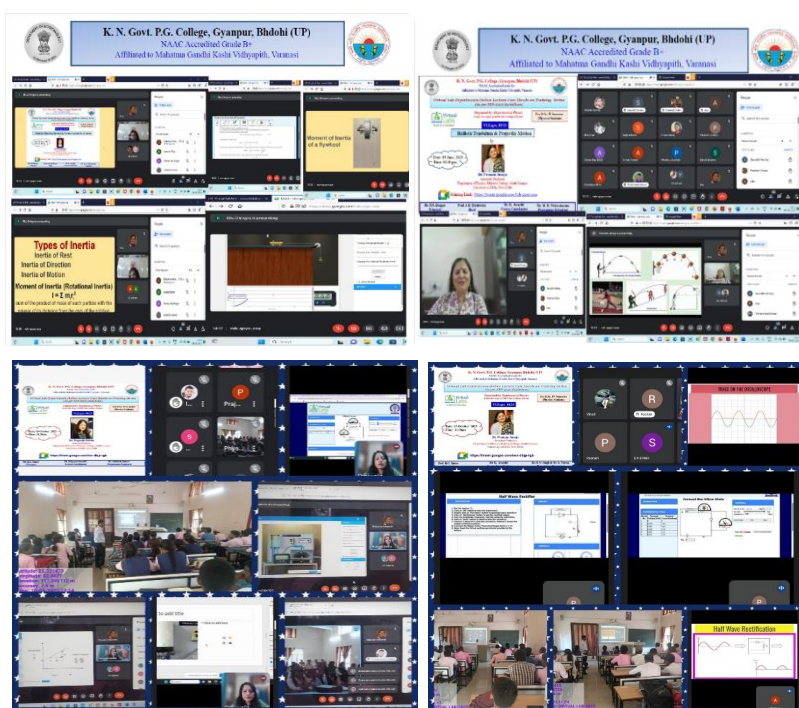
Guest Lecture



Educational Visit



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



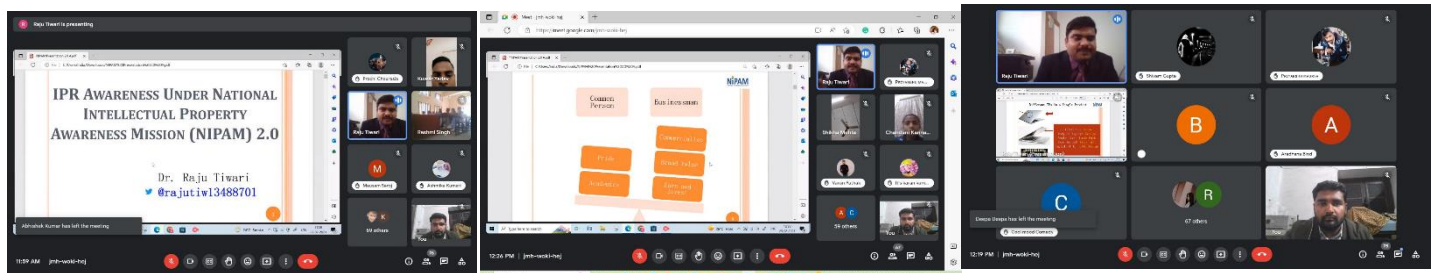
Lab Visit By School Students of Bhadohi District



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



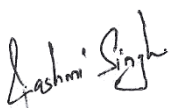
National Energy Conservation Day

World Environment Day

17 મહં. 2023

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/9GCTvHiT2KQ>
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=gtdvK-OPNlndRMBx>
19. <https://youtu.be/F71N1DTvApY>
20. <https://youtu.be/VrnsTmrn6fM>
21. <https://youtu.be/0sBaUT2aazM>



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