PG Department of Biotechnology and Microbiology



Janta College Bakewar, Etawah Affiliated to Chhatrapati Shahu Ji Maharaj University, Kanpur

Courses

Microbiology (PG) started – 2001 Biotechnology (PG) started – 2003

Coordinator

Dr. Lalit Gupta (Professor and Head, Zoology)

Teacher

Dr. Shaili Yadav (Ph.D)

(Assistant Professor under Self Finance Scheme)

Supporting Staff

1. Mohd. Rashid Farooqi (Lab Assistant)

2. Mr. Indresh Tiwari(Lab Attendant under SF Scheme)

Teacher's Profile

B.Sc. (2007-2010) (Janta college, Bakewar)

M.Sc. (2010-2012) (Banasthali Vidyapith)

Ph.D. (2012-2019) (Banasthali Vidyapith, Newai, Rajasthan)

Research papers- 15

- Evaluation of morpho-physiological and antioxidant responses of *Moringa oleifera* Lam. to lead exposure, 2023. Journal of Trace Elements and Minerals- Elsevier
- 2) Cadmium Phytoextraction and Induced Antioxidant Gene Response in *Moringa oleifera* Lam. 2017. <u>American Journal of Plant Physiology Science</u> Alert
- Cadmium induced Changes in Metallothioneins and Soluble Protein content in leaves of *Moringa oleifera* Lam. 2018. <u>Int. Journal of Plant Research &</u> <u>Biotechnology, -</u>Scopus indexed, Vegetos
- Functional characterization of Phytochelatin gene in lead induced Moringa seedlings; International Journal of Phytoremediation Taylor and Francis (Accepted)

<u>Conference/workshop/presented – 12</u>

- Workshop on Technological Empowerment of women organized by <u>The National Academy of Sciences, India-NASI</u> at Banasthali Vidyapith
 - **DBT** sponsored national workshop on In Silico genome and Proteome Analysis at Banasthali Vidyapith, Rajasthan

Seats

	Biotechnology (UG)	Biotech (PG)	Microbiology (PG)
Intake	40	20	20
Current Strength	110	7	10

Course and Curriculum

Department follows 'New Education Policy-2020' – since 2021-22 as per instruction of university.

The Semester system

	Elective Papers in PG					
Sem	Microbiology	Biotechnology				
1	-	-				
2	virology 2 nd sem (1 Elective)	Consumer right and Behavior 2 nd Sem (1 Minor elective)				
3	Agriculture and Environmental Microbiology 3 rd sem (1 Elective)	 Genomics and Proteomics 3rd Sem Animal cell culture 3rd Sem (2 Electives) 				
4	Intellectual property Rights 4 th sem ➤ Research dissertation 4 th sem (2 Electives)	 Bioprocess, IPR, Microbial, envrionemntal Biotechnology in 4th sem (Any 4 Electives) ➢ Research dissertation 4th sem 				

<u>Teaching</u> <u>methods</u>	Evaluation
Chalk and talk Practicals	Mid term Exam
 Project Model Assignment 	End term Exam
Study Tour	Dissertation report in M.Sc



WHATEVER IS WORTH DOING IS WORTH DOING WELL,











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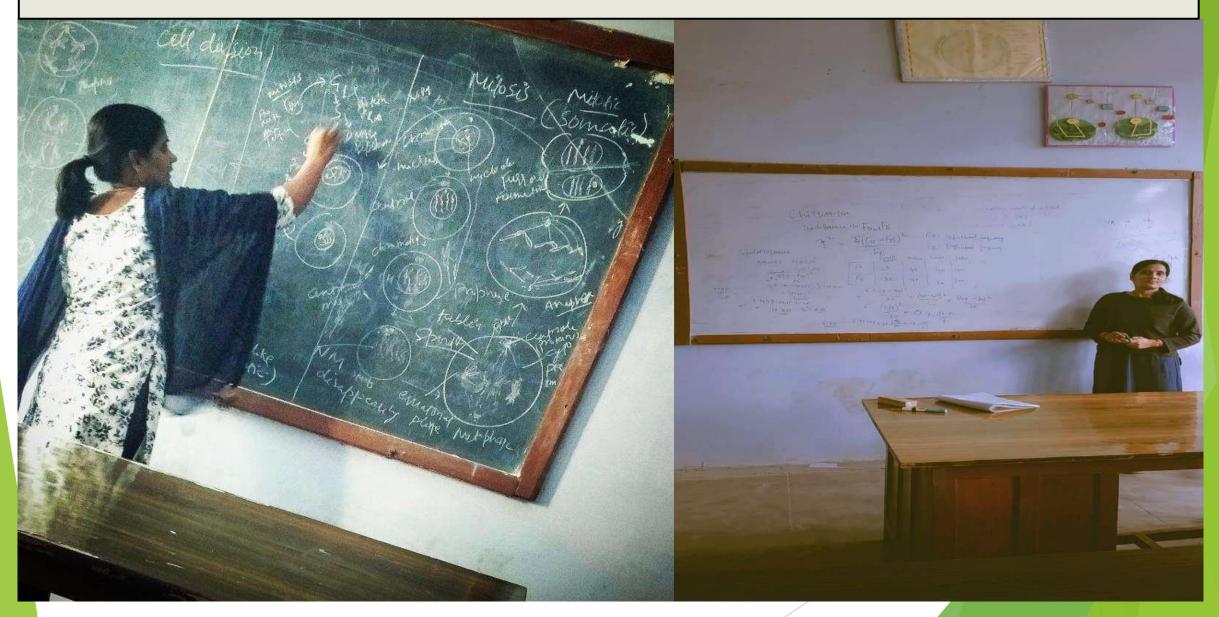
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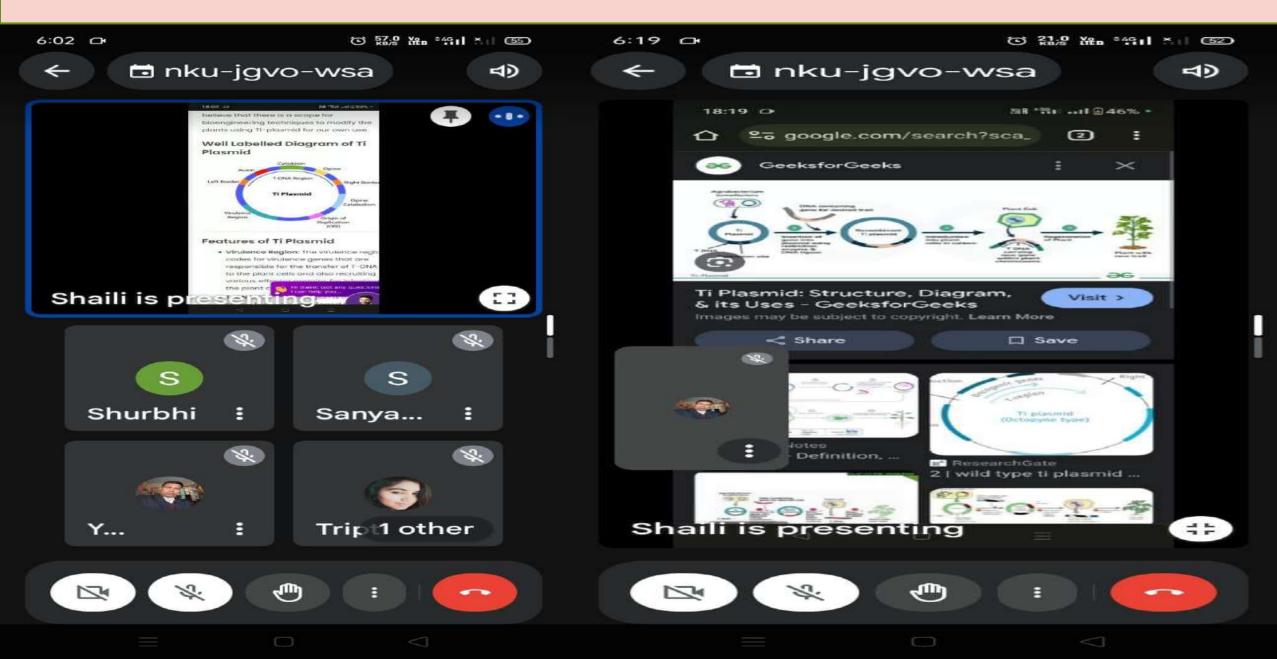
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Antigen-Busenbing cell(APC)

Lecture-Based Learning and Discussion



Online Classes



Students Practicing Various Activities



During Internal Practical Assessment



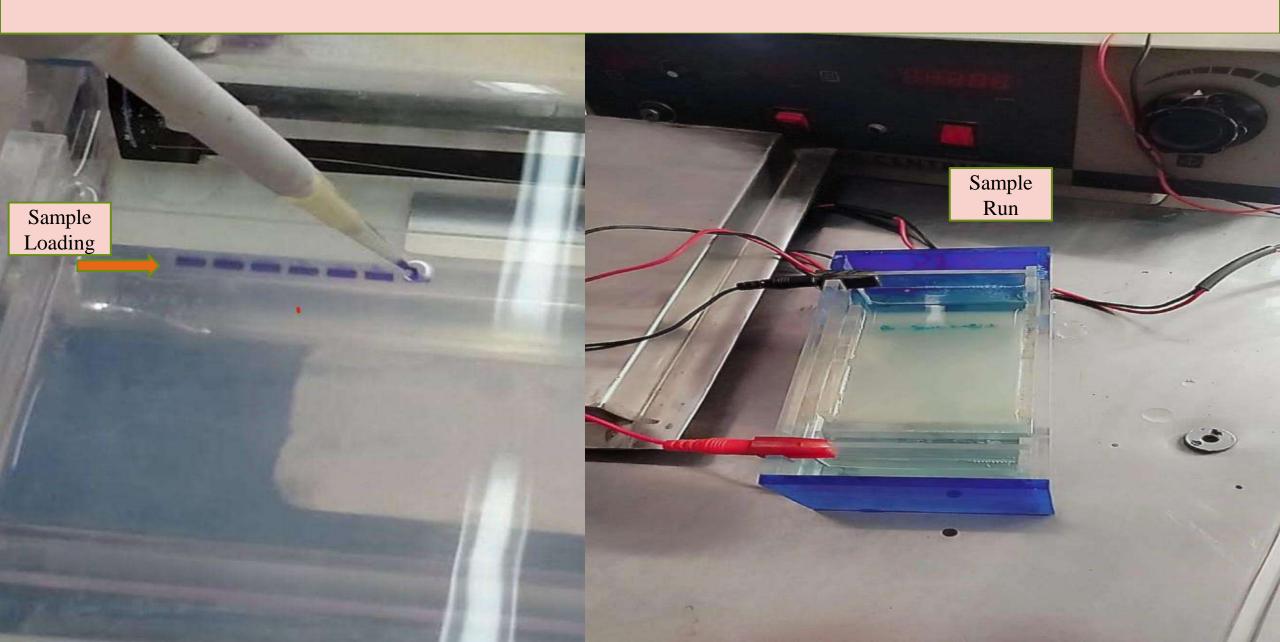
While performing Agarose Gel Electrophoresis- DNA analysis



Protein Bands in Polyacrylamide Gel- SDS-PAGE



DNA Analysis through Agarose Gel Electrophoresis





Bacterial Growth (In lumps) on Nutrient Agar Plate



Centrifugation of plant leaves and Paper Chromatography for pigments & compounds observation in leaf extract



Alumna Working in Rajkumari Ratnawati Girls School (CITTA UK foundation) -Jaisalmer



Student Representing the College in President House

जनता कॉलेज बकेवर के छात्र हरशु शर्मा को मिला राष्ट्रपति भवन में नवाचारक सम्मान



बकेवर के प्रतिभावान छात्र एवं वैज्ञानिक हरशु शर्मा

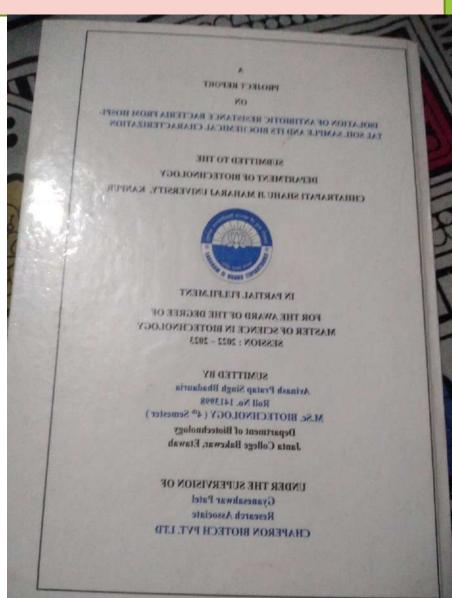
जनता कॉलेज बकेवर में बीएससी कर रहे हर्षू शर्मा को 13 अप्रैल फेस्टिवल ऑफ़ इनोवेशन के दिन राष्ट्रपति भवन में आमंत्रित किया गया जहां उन्हें भारत के माननीय राष्ट्रपति द्वारा नवाचारक सम्मान से सम्मानित किया गया यह इतनी छोटी उम्र में उनके लिए एक बड़ी उपलब्धि है कि उन्हें भारत के राष्ट्रपति भवन में 13 अप्रैल को फेस्टिवल ऑफ इनोवेशन एंड एंटरप्रेन्योरशिप के तहत कार्यक्रम में महेबा निवासी बाल वैज्ञानिक हरश शर्मा को आमंत्रित किया गया है। कार्यक्रम में वह विज़िटर के रूप में भाग लेंगे। वह जनता कॉलेज बकेवर से बीएससी कर रहे हैं। लोकमान्य रूरल इंटर कॉलेज से पिछले साल इंटर पास किया है। कार्यक्रम में राष्ट्रपति द्रौपदी मुर्मू व प्रधानमंत्री उपस्थित रहेंगे। लोकमान्य रुरल इंटर कॉलेज के पूर्व प्राचार्य डॉ. रामप्रकाश ओझा, प्रधानाचार्य डॉ. एसएस त्रिपाठी, चीफ प्रॉक्टर प्रताप नारायण तिवारी ने हर्ष व्यक्त किया है।

Results

Year	UG (%) Biotechnology	PG (%) Biotechnology	PG(%) Micro	
2018-2019	91	100	100	
2020-2021	98	_	100	
2021-2022	95	100		
2022-2023	85	100	_	ł
2023-2024	87	100	100	

Dissertation Work

- All the students of PG do research project in 4th semester from various government or private research institutes.
- **Their work in written format is evaluated by internal and external examiner.**
- ✓ Indian Agriculture Research Institute–PUSA New
- ✓ Chaperon Biotech, Pvt. Ltd.
- Helix BioGenseis Pvt. Ltd.
- ✓ Biotech park Lucknow
- Awastham Bioinformatics Centre Etawah



Placements

Different biological and testing pvt. Ltd. companies have handed out job offers to our students.

1. Prashant Yadav (M.Sc Biotech-2023)

QA testing laboratory (coal, water, building material testing) PVt. Ltd., Noida

2. MadhureshTripathi (M.Sc Microbiotech-2018)

Supreme Test House/ NABL Laboratory, Delhi, as senior analyst

- 3. Mansi Porwal (M.Sc Biotech- 2022)
- □ Enhancement of working of diagnosis kit by RDT
- Currently as Researcher in Rajakumari Ratnawati girl'S College, Jaisalmer as project assistant
- 4. Raveena Yadav (M.Sc Biotech)

Doing Ph.D on Pulmonary fibrosis

5. Keshav Yadav (B.Sc Biotech. - batch 2022)

Got Government recruited in Sainik School, Dholpur, Rajasthan, as Lab Head cum teacher

Departmental Library (Total Books-277)



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Instrument Laboratory



Participation of Students as volunteers in Medical Camp (with Gynecology and Cardiac Consultants) -2022



Participation of Biotechnology Department in Science Exhibition



Study Tour to NBRI (National Botanical Research Institute, Lucknow 2023)



Thank You

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