



चौधरी महादेव प्रसादमहाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Department of Zoology
C.M.P. Degree College, Prayagraj

Training programs conducted:

Training of Manpower

Equipments Training to Lab Staff:

The in-house training program was conducted on August 9 & 10, 2021 in the Department of Zoology to train the laboratory staff Mr. Vikram and Jeetendra for handling, and maintenance of equipments, however, outdoor training program could not be conducted due to Covid-19 pandemic.





चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE



(A Constituent P.G. College, University of Allahabad)

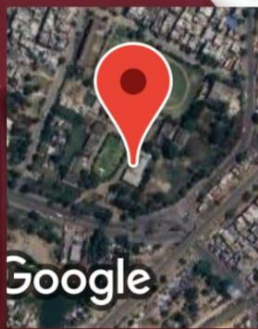
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

Two days' workshop on "Handling of Instruments, Chemicals and Glassware in Laboratories" for training to non-teaching staff was jointly organized by Internal Quality Assurance Cell (IQAC), DBT Star College Scheme and Capacity Building Committee on August 22-23, 2023.



GPS Map Camera



Google

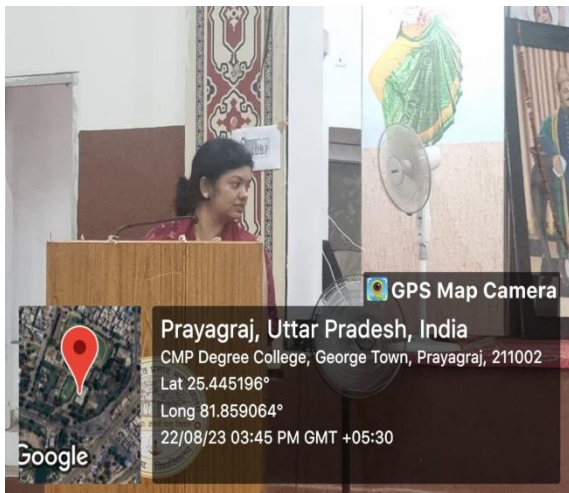
Prayagraj, Uttar Pradesh, India

CMP Degree College, George Town, Prayagraj, 211002

Lat 25.445196°

Long 81.859064°

22/08/23 03:32 PM GMT +05:30



GPS Map Camera



Google

Prayagraj, Uttar Pradesh, India

CMP Degree College, George Town, Prayagraj, 211002

Lat 25.445196°

Long 81.859064°

22/08/23 03:45 PM GMT +05:30



Nodal Departments for the programme were Zoology, Botany, Chemistry, and Physics. All



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



the non-teaching staff of the department participated in this workshop. This workshop was jointly organized by Dr Deepa Srivastava, Dr Rekha Srivastava, Dr Pallavi Rai and Dr Sudhi Srivastava. Event Conveners were Dr. Meena Rai, Dr Arti Gupta, Dr Vinita Jaiswal and Dr. Sarita Srivastava (Coordinator IQAC/ Coordinator DBT Star College Schem) was the Coordinator of this Programme.

Day 1 (22-08-2023):

1. Visit to Laboratories
2. Listing of instruments
3. Handling of instruments: Homogenizer, Microscope, Double distillation unit, ELISA reader (Resource Person: Dr. Ashish Kumar Mishra, Assistant Professor, Department of Zoology).

Day 2 (23-08-2023):

1. Preparation of Chemicals
2. Handling of glassware
3. Sample identification (Zoology)
4. Disposal of chemicals and glassware
5. Museum curation (Resource Person: Dr. Nidhi Tripathi, Assistant Professor, Department of Zoology)



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Training to Students and Faculty:

Seven days **INTER DISCIPLINARY E-WORKSHOP on FUNDAMENTAL OF BIOTECHNOLOGICAL TECHNIQUES** (25th Nov – 1st of Dec, 2020) was jointly organized by Department of Zoology and Botany. Three hundred twenty five (325) students participated in this E workshop. Dr Manoj Kumar Jaiswal and Dr Charu Tripathi were Organizing Secretaries from Dept. of Zoology.

Training was imparted in following topics:

- DNA isolation from cells
- Agarose Gel Electrophoresis
- Polymerase chain reaction
- Sterilization and media preparation
- Plating, Streaking
- Gram staining
- Antimicrobial activity
- Primer Designing, Sequence retrieval, Phylogenetic tree construction, 3D visualization

Inaugural session

Date: 25 November 2020
Time: 10:00 am (IST)



Dr. Sangeeta Srivastava
Chairperson

Principal Scientist, & Head, Division of Crop improvement
ICAR-Indian Institute of Sugar cane Research, Lucknow-226002-UP



Key Note Speaker
Prof. Ajay Pratap Singh

Director of Research
Department of Pathology, College of Medicine
Program Leader, Cancer Biology
Mitchell Cancer Institute, University of South Alabama,
1660 Springhill Avenue, Mobile, AL 36689-1405

SPEAKERS

EMINENT SPEAKERS

Dr. Spoorthy N Babu
VIT University
Tamil Nadu
Date: 26 November 2020
Time: 10:00 am (IST)



Dr. Hemant Sharma
Department of Biochemistry
Banarshi Mahaveer, Jaipur
Date: 27 November 2020
Time: 10:00 am (IST)



Dr. Saarabhi Pandey
Albert-Ludwigs University of Freiburg
Molecular Plant Physiology
Date: 28 November 2020
Time: 02:00 pm (IST)



Dr. Arpit Pandey
Purdue State Medical and
Research University, Georgia
Date: 29 November 2020
Time: 10:00 am (IST)

SPEAKERS

Dr. Madhulika Singh
Director
CrisGene Research & Development,
Lucknow
Date: 01 December 2020
Time: 1:00 pm (IST)



Seven days Interdisciplinary FDP on **Bioinformatics and computational Biology: Introduction and Approaches** (Dec 9, 2020 – Dec 15, 2020) under the aegis of DBT star college Scheme was organized by Department of Zoology, Botany and Chemistry. Ten faculties from Zoology Departments Attended this faculty development Program.



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in




INTER DISCIPLINARY
Seven Days E-WORKSHOP
on
Bioinformatics and Computational Biology
Introduction and Approaches
(09th – 15th December 2020)
Time: 2:00 PM-5:00 PM

Jointly Organized by
Departments of
Botany, Zoology & Chemistry
Chaudhary Mahadeo Prasad Degree College
University of Allahabad, Prayagraj
(Under the strengthening component of DBT Star College Scheme)
Organized Online Zoom platform

Target Group: Professors, Teachers & Research Scholars
No Registration fee

Program Coordinator
Dr. Sarita Srivastava Associate Professor
(Coordinator - DBT Star College, Project)
Botany Department, CMP College
University of Allahabad, Prayagraj
Ph: 9335530055
Email: cmpdbtstar03@gmail.com



graj on Saturday

Pioneer

Week-long FDP concludes

PNS ■ ALLAHABAD

A week-long faculty development programme (FDP) on 'Management of Online Teaching and Learning System with MOOCs', organised by CMP Degree College in Collaboration with TLC, Indian Institute of Technology (Banaras Hindu University) under PMMMNTT scheme of the Ministry of Education, concluded on Friday.

The programme was organised with the objective to train faculties to conduct online classes and manage open resources and tools for online teaching, which are crucial for making education available to students in the unprecedented time of COVID-19 pandemic. The FDP facilitated faculties with learning and hands-on experience of 'Open Educational Resources' (OER), 'Learning Management System' (LMS) and 'MOOCs'. It was conducted in live and interactive mode to provide real-time experience to participants.

In the valedictory session of the FDP, chairman of TLC, IIT-BHU Prof Prashant Shukla was present and he stated that CMP Degree College is one of the very first colleges in UP which conducted this programme. He assured handholding support to the college till December and even after that, if required, to make college's own LMS platform and CMP-LIVE platform workable. Principal of the college Brijesh Kumar conveyed his gratitude to the TLC, IIT-BHU for conducting FDP and providing assistance. The renowned resource persons across India like Prof Yogesh Velankar, Prof Ajit Mishra, Prof NS Rajput, Amber Jain were also present on the occasion. Convener of ICT Cell of college Manish Kumar Sinha welcomed the dignitaries and participants while coordinator of IQAC of the college Sarita Srivastava proposed the vote of thanks. The valedictory session was compered by Govind Gaurav, organising secretary of the FDP.

One day Webinar followed by short quiz on "How to Read scientific literature and Introduction to MAANAV, the human atlas initiative. By Dr Anupma Hashal W, ISSER Pune was organized by Department of Zoology under Project MAANAV-The Human Altalas Initiative, DBT. Dr Umarani Agrawal, Departmental coordinator, DBT Star College Scheme and Dr. Neerja Kapoor, coordinator, Interdisciplinary committee, DBT star college scheme organized this session on Aug 6, 2021. Around 400 students and faculties participated in this training session.



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



लखनऊ, शनिवार, 07 अगस्त, 2021

14

डाटाबेस से होगा मानव शरीर का अध्ययन : डॉ. अनुपमा हर्षल

अवधानमा संवाददाता

प्रयागराज। खण्डेनोलीजी विभाग भारत सरकार द्वारा वित्त पोषित प्रोजेक्ट मानव-द ह्युमन एटलस इनिशिएटिव के अंतर्गत हाइ टू रिड साइंटिफिक लिटरेचर विषय पर जंतु विज्ञान विभाग, सीएमपी कॉलेज द्वारा एक वेबिनार का आयोजन दिनांक 6 अगस्त को किया गया। मुख्य वक्ता डॉक्टर अनुपमा हर्षल थीं। उन्होंने बताया कि किस प्रकार विभिन्न डेटाबेस एवं जर्नल में प्रकाशित लेखों में दी गई सूचनाओं का अध्ययन किया जा सकता है। इससे मानव शरीर की जटिल तम प्रक्रियाओं को समझने में तथा कैन्सर, मधुमेह आदि जटिल बीमारियों के बेहतर उपचार में सहायता मिलेगी। कार्यक्रम की आयोजिका डॉक्टर नीरजा कपूर ने मानव प्रोजेक्ट का संक्षिप्त परिचय दिया। प्राचार्य डॉक्टर बृजेश



शिवलिंग की महिमा का बखान अंतराभव: पं० श्याम तूत पाण्डेय

प्रयागराज। त्रिवेणी बाँध स्थित सिद्धपीठ काले हनुमान कृपासिन्धु हनुमान मंदिर पर नैतिक विकास शोध संस्थान सेवा ट्रस्ट के तत्वावधान जारी अनंत पार्थिव शिवलिंग निर्माण महायज्ञ आज 13वें दिन भी हर-हर महादेव के जयघोष के साथ अनवरत जारी रह, जहाँ भक्तों ने तेरस के दिन हल्दी, चन्दन, गैली, भस्म और खेलपत्रों से पार्थिव शिवलिंगों का विधिवत श्रंगार करते हुए निर्माण किया और भगवान भोलेनाथ का अभिषेक करते हुए मनोकामनापूर्ति हेतु वरदान माँगा। अभिषेक आरती के उपरान्त भक्तों को महाशिवपुराण कथा का विस्तार पूर्वक व्याख्यान करते हुए श्री महागज योगी देवराज जंगल बाबा ने शिवलिंगों की महिमा पर प्रकाश डाला और पश्चिम दिशा में स्थित दुबपुरी में गणेश नामक शिवलिंग और कालेश्वर नामक दूसरे शिवलिंग के बारे में बताया कि इन शिवलिंगों का दर्शन भक्तों को सुख, सम्पत्ति, वरा, कीर्ति प्रदान करता है।

विभाग की प्रशासिका। स्वागत डॉ. वंदना माधुर ने तथा संबालन डॉक्टर उमा राणे अग्रवाल ने किया। इस वेबिनार में डॉक्टर विनीता जायसवाल, डॉक्टर अमिता पांडे, डॉक्टर जया त्रिपाठी के अतिरिक्त विभिन्न महाविद्यालयों के शिक्षक शिक्षिकाएँ एवं लगभग 400 छात्र-छात्राएँ उपस्थित थीं।

लिए शुभकामनाएँ दीं तथा जंतु विज्ञान

"TRAINING AND PROJECT AWARENESS" SESSION UNDER
PROJECT MANAV-THE HUMAN ATLAS INITIATIVE

HOW TO READ SCIENTIFIC LITERATURE & Introduction to MANAV-The Human Atlas Initiative.

By

DR. ANUPMA HARSHAL W.
CONSULTANT
(Science Communication and Public Engagement)
Manav-Human Atlas Initiative, IISER, Pune

Platform: Zoom
Target audience - Students/Teachers/
Researchers
All participants will receive a
downloadable certificate on successful
completion of post session online QUIZ.

ON
6th August 2021
Time: 2.00pm

Organizers
Dr. Neerja Kapoor
Coordinator Interdisciplinary Committee, DBT
STAR SCHEME
Dr. Uma Rani Agrawal
Departmental Coordinator,
DBT STAR SCHEME

Organized by
Department of Zoology, CMP College
(A Constituent P.G. College of University of Allahabad)
DBT STAR COLLEGE

FOR REGISTRATION - <https://forms.gle/JmrF4MGhNbuB8m3s9>

A Workshop on “**Double Diffusion test for Antigen antibody Interaction**” for B.Sc. III Students was organised by the department of Zoology on March 26, 2022. In this workshop 19 students participated and learned the double diffusion method for antigen-antibody interaction. The workshop was organized by Dr. Umarani Agrawal and Dr. Anuradha.



Hands-on Training workshop on Enzyme Linked Immunosorbent Assay (ELISA): Department of Zoology organised a hands-on training workshop on “Enzyme Linked Immunosorbent Assay (ELISA)” for B.Sc. 3rd year students under the aegis of DBT star college scheme on September 30, 2022. The Convener of Zoology Department, Dr Neerja Kapoor told us that CMP degree College has become the first college of University of Allahabad to train undergraduate students in this advanced technique of biomedical importance which is used to detect many diseases including hepatitis and AIDS and this a



चौधरी महादेव प्रसादमहाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



matter of great pride for Zoology Department that we are organizing this event using our own resources.

Twenty students were selected for this workshop out of a large number of applicants. This workshop was jointly organized by Dr. Manoj Kumar Jaiswal, Dr. Ashish Kumar Mishra and Dr. Charu Tripathi. The Event Convener, Dr. Vandana Mathur asserted that the department has planned more such events for the benefit of our students and we are likely to open this learning opportunity for students of other colleges and universities. Prof. Ajay Prakash Khare, Principal, CMP Degree college also lauded the efforts put forth by the department of zoology and assured every possible help from his office for furthering the academic atmosphere of the Department

First Session: In the first session, Dr. Charu Tripathi, Assistant Professor, Department of Zoology, delivered a lecture on the Basics of ELISA. She discussed in detail the principles, types, and uses of ELISA.

Second Session: In the second session, Dr. Ashish Kumar Mishra, Assistant Professor, Department of Zoology, demonstrated and gave hands-on training on the ELISA to participants. The students were divided into two batches for the training. They use the Hepatitis B detection ELISA kit to learn the technique.





चौधरी महादेव प्रसादमहाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



**‘एलाइजा’ पर
व्यावहारिक प्रशिक्षण
कार्यशाला आयोजित**
सीएमपी डिग्री कालेज में जंतु विज्ञान विभाग की ओर से बीएससी तृतीय वर्ष के छात्रों के लिए डीबीटी स्टार कालेज के तत्वावधान में शुक्रवार को ‘एलाइजा’ पर व्यावहारिक प्रशिक्षण कार्यशाला का आयोजन किया। विभाग की संयोजिका डा. नीरजा कपूर ने बताया कि सीएमपी डिग्री कालेज बायोमैडिकल की इस उन्नत तकनीक में स्नातक छात्रों को प्रशिक्षित करने वाला इलाहाबाद विश्वविद्यालय का पहला कालेज बन गया है। इस तकनीक का उपयोग हेपेटाइटिस और एड्स सहित कई बीमारियों का पता लगाने के लिए किया जाता है। डा. कपूर ने बताया कि यह प्राणी विज्ञान विभाग के लिए बहुत गर्व की बात है कि हम अपने संसाधनों का उपयोग करके इस कार्यक्रम का आयोजन कर रहे हैं। इस कार्यशाला के लिए बड़ी संख्या में प्राप्त आवेदन में से २० छात्रों का चयन किया गया था। इस कार्यशाला का आयोजन डा. मनोज कुमार जायसवाल, डा. आशीष कुमार मिश्र एवं डा. चारु त्रिपाठी ने संयुक्त रूप से किया। कार्यक्रम की संयोजक डा. वंदना माथुर ने कहा कि विभाग ने छात्रों के लाभ के लिए इस तरह के और कार्यक्रमों की योजना बनाई है। उन्होंने कहा कि हम अन्य कालेजों और विश्वविद्यालयों के छात्रों के लिए इस तकनीक को सीखने के अवसर खोल सकते हैं। कालेज के प्राचार्य प्रो. अजय प्रकाश खरे ने भी जंतु विज्ञान विभाग द्वारा किए गए प्रयासों की सराहना की। उन्होंने कहा कि विभाग के शैक्षणिक माहौल को आगे बढ़ाने के लिए हर संभव मदद दी जाएगी।

Hands-on Workshop on Food Safety and Nutritional Security:

Three days hands-on workshop was organized by the Department of Zoology, Botany and Chemistry under the aegis of DBT star college scheme on August 17 to 19, 2023.

The students have been given training on estimation of following:

- Macromolecules from food material.
- pH and NaCl from food material.
- Food Adulterant and their detection in food.
- Micronutrients such as vitamins in food.
- Dietary fibres in food sources.

The President/Chief Guest of the workshop was Dr. Jagdamba Singh, Ex-Head, Department of Chemistry, University of Allahabad. Dr. Sujit Kumar Singh was Training Officer and Dr. Shankar Suvan Singh was Keynote speaker. Prof. Jagdamba Singh addressed the importance of diet for human beings since it meets two basic needs: nutrients and energy. He told that Rice should be regarded as the best source of protein. He encouraged students to cherish life by eating home-cooked meals. Finally, he stated that 70% of diseases arise from the consumption of contaminated water and that we should be cautious of our health.



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Dr. Shankar Suwan Singh, the keynote speaker, emphasised on the quality control of food products, their nutritional safety, and food security. He emphasised that milk adulteration owing to water, starch, gelatin, urea, melamine, and other substances can be detected using the lactometer technique and calculated using the freezing point method to ensure the purity of milk. Er. Sujit Kumar Singh briefed the audience about the three-day training programme and its implications for the future. Quality control is the fundamental requirement for ensuring food security, on which the Indian government is firmly focused.



Report: Day-02

The second day of the three days Hands on -workshop commenced with great enthusiasm as participant continued their journey to delve deeper into the realm of ensuring food safety. Dr.Arati Gupta, Associate Professor, Department of Chemistry, welcomed the training officer, Er. Sujit Kumar Singh, resource person Dr.Madhulika Singh, distinguished faculty members and students.

First Session:

In the first session Er. Sujit Kumar Singh an accomplished expert in the field of food safety took the stage to illustrate the significance of understanding and implementing effective food safety measure to safe guard public health. Dr.Madhulika, a distinguished expert in the field of food analysis, demonstrated the first experiment; the aim of the experiment was to determine the acidity in beverages. The sample chosen for acidity measurement was milk. The acidity of the milk sample was calculated to be 0.3 %, which falls within the acceptable range of 0.2 to 0.6 % acidity for milk.

Second Session:

In the second session Dr.Madhulika and team introduced students with another experiment on "Determination of % of NaCl content in a curd sample" following the demonstration, the student were divided into groups and provided with curd sample to perform the experiment



चौधरी महादेव प्रसादमहाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



themselves. Dr.Madhulika's team offered guidance and support as the students carried out each step of the experiment, ensuring accuracy and safety.

Third Session:

During the third session, students were introduced to the experiment focused on the "Analysis of moisture and ash content in flour and bread samples". The demonstration aimed to familiarize students with the procedure involved in sample preparation, determination of moisture content and quantification of ash content. After the demonstration, students were given the opportunity to perform the experiment themselves. This hands-on experiment allowed students to better understand the practical aspects of moisture and ash content analysis, with practical exposure to techniques used in food analysis and to emphasize the significance of measuring moisture and ash content in food products.

Report: Day-03

First Session:

The third and final day of the three days Hands on- Workshop, jointly organized by the Department of Botany, Chemistry and Zoology (17th-19th Aug, 2023) under the aegis of DBT Star Scheme commenced with an engaging session led by Dr.Madhulika Singh and her team. The primary focus of the session was on the experimentation and analysis of vitamin content in various fruit juices. The session concluded with a hands-on demonstration where participants had the opportunity to observe the experimental procedure under the guidance of the experts. Overall the session on the determination of vitamin content in fruit juices provided participants with valuable insight into the scientific methodology and significance of accurate vitamin measurement.

Second Session:

The second session of the final day of the workshop on food safety and nutritional security featured a significant interaction between the participants and three distinguished food safety officers, Mr. Rajesh Kumar Yadav (Divisional Food Safety Officer), Dr. Anjali Srivastava(Food Safety Officer) and Mr. P.K. Rai (Food Safety Officer) from Food Safety and Drug Administration, Uttar Pradesh.

Dr.SaritaSrivastava commenced the session by introducing the three esteemed guests.

Mr. Rajesh Kumar, an esteemed expert in the field of food safety addressed the students. He appreciated the students for their eagerness of being conscious about food safety in their daily lives. Furthermore, Mr. Rajesh shared insight into the exciting and evolving career opportunities within the realm of food safety. Dr. Anjali Srivastava discussed the multifaceted nature of food safety, highlighting its relevance across various stages of food supply chain. Mr. P. K. Rai introduced students with the food safety and connect app. These offices arrived with a mobile testing laboratory which provided students with a unique opportunity to engage in practical testing of various food samples. Awareness was made by checking the substances mixed in milk like urea, detergent, sucrose etc, on the spot by mobile laboratory.

Third Session:

The third and the final session of the day in the workshop on "Food Safety and Nutritional Security" featured yet another enlightening demonstration led by Dr.Madhulika Singh and her team. The focus of this session was on the estimation of crude fiber content in food products, highlighting its significance in assessing the nutritional quality of various



चौधरी महादेव प्रसादमहाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



substances. The combination of expert presentation, interactive session and practical demonstration ensured a holistic learning experience, leaving participants inspired and empowered to contribute positively to the realm of food safety and nutrition.

Valedictory Function:

The three days workshop culminated with the valedictory function. The function was over seen by Dr.Hemlata Pant, who adeptly managed the entire proceedings. During this event Dr. Vishal Srivastava provided an overview of all the activities that took place over the three days workshop on “Food Safety and Nutritional Security”. Dr.BabitaAgarwal expressed gratitude to the guests, faculty members and the participants in the form of vote of thanks. Subsequently, certificates were distributed to acknowledge the participants active involvement in the seminar. With this final event, the workshop came to a fulfilling and successful conclusion.

Dr. Sarita Srivastava
Associate Professor
Coordinator DBT Star College
C.M.P. College
University of Allahabad

Departmental Coordinator

Dr. Manoj Kumar Jaiswal

Convener

Dr. Vinita Jaiswal

Coordinator, DBT Star College

Dr. Sarita Srivastava