



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



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.





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ELISA Training to Students:

Hands-on Training workshop on 'Enzyme Linked Immunosorbent Assay (ELISA)' was organised by Department of Zoology under the aegis of DBT star college scheme on September 30, 2022. Total 20 students were screened out for the training.

First Session: In the first session Dr. Charu Tripathi, Assistant Professor, Department of Zoology delivered a lecture on Basics of ELISA.

Second session: In the second session Dr Ashish Kumar Mishra, Assistant Professor, Department of Zoology demonstrated and gave Hands-on Training of the ELISA to participants. The students use Hepatitis B detection ELISA kit to learn the technique.



'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 20 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: Analysis and Quality



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Control:

Three day hands-on workshop on "Food safety and nutritional security, analysis and quality control" was organised by the Department of Zoology, Botany and Chemistry under the aegis of DBT star college scheme on August 17 to 19, 2023. 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 Suwan 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.



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



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participant continued their journey to delve deeper into the realm of ensuring food safety. Dr. Arti 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 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



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(Food Safety Officer) and Mr. P.K. Rai (Food Safety Officer) from Food Safety and Drug Administration, Uttar Pradesh.

Dr. Sarita Srivastava 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 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. Babita Agarwal 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.

Departmental Coordinator

Convener

Dr. Sarita Srivastava
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Dr. Manoj Kumar Jaiswal

Dr. Vinita Jaiswal

Dr. Sarita Srivastava