



ICAR Sponsored Winter School on
“Recent advances in knowledge of structural dynamics and
their applications to improve animal health, production and reproduction”

10th January to 30th January, 2023



Organized by
Department of Veterinary Anatomy
College of Veterinary Science and Animal Husbandry
U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya
Evam Go Anusandhan Sansthan (DUVASU), Mathura-281001 (U.P.) INDIA

ABOUT THE UNIVERSITY

The University is located at Braj Bhumi Mathura the birth place of Lord Krishna. Braj area is known since time immemorial for lord Krishna and its animal wealth, particularly cows. There are large numbers of Gaushalas in and around Mathura having hundreds and thousands of cows. The whole of Braj Kshetra is famous for its milk and products (doodh, dahi, makhan, pera etc.) Recognizing the importance of live-stock of this area, the erstwhile U.P. College of Veterinary Science and Animal Husbandry was established in Mathura by Govt of U.P. in 1947. It was the first Veterinary College in Asia to confer the degree in Veterinary Science. Ever since the establishment of this College, it has contributed significantly not only in terms of number of graduated and post- graduated of high Scholastic order, but also quality research of National and International standards. This College has a glorious past and the distinction of having its alumni holding high positions in India and abroad as teachers, researchers, policy makers, consultants and administrators.

In the year 1975, this College was made a constituent College of the newly established C.S. Azad University of Agriculture and Technology, Kanpur However, keeping in view the requirement of trained and competent manpower in the field of Veterinary Science, Animal Husbandry, Fisheries and other allied disciplines and also to give a fillip to research on different aspect of cattle production, Govt. of Uttar Pradesh established U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura, the fourth Veterinary University in the country and the Veterinary College Mathura became the first constituent College of the University. The University is located on the Mathura-Agra road and is about 5 km from Mathura Junction railway station and 4 km from new bus stand. The main campus of the University is spread over a vast land area of 782.32 acres in Mathura Cantt and about 1400 acres at Madhurikund, about 20 km from the main campus.

Department of Veterinary Anatomy

Since inception of Veterinary College in 1947, the department of Anatomy is imparting knowledge to undergraduate students. The department has started postgraduate studies in 1965 and the first Indian Ph.D. scholar in Veterinary Anatomy Dr. U.B. Singh has completed his research work in 1970 from this department. The department is located in a very large building having a big Dissection hall, Histology and Embryology laboratory, Osteology laboratory for undergraduate students, one Postgraduate studies lab, Histochemistry lab, one seminar hall and a lecture theatre which is well equipped with audiovisual aids. Department has established a specimen preparation lab under R.K.V.Y. project on "Entrepreneurial promotion by preparation of specimens from fallen animals". Under this project the department is preparing plastinated specimens along with wet and dry specimens. The department had organized one Summer Institute of one month in 1970 and one ICAR sponsored Winter school in 2018. It had organized two National Conferences of IAVA in 1991 and 2011, respectively. The department is actively involved in research on gross anatomy, histology and histochemistry of different organs and systems of various species of animals. So far, sixteen Ph.D and twenty nine M.V.Sc. students have completed their degree from this department. The department has successfully taken up three university funded intramural research projects and one extramural project is running in the department. The department has published more than 210 research papers in National and International journals. In addition to teaching and research the department actively participated in various Kisan Melas etc.

About the course

Anatomy is concerned with the identification and description of the body structures of living organisms. In order to know the functions of any organ/system understanding of its anatomy is indispensable. The body of living animal is very intricate as it consists of many systems, comprised of several organs, composed of many tissues/cells. The classical method of study of Anatomy was dissection, but with the advancements in science, many new techniques have been developed which have given an opportunity to study the structure of various parts/organs of the body without performing any dissection such as digital radiography, ultrasonography, MR Imaging etc. Many new techniques have also been evolved for the preservation and preparation of eco-friendly anatomical specimens which enable the scientists to learn anatomy without any hassle. The knowledge of anatomy and histology of various organs and system is further essential for the identification and selection of healthy animals; and diagnosis of various pathological conditions (mild inflammation to advanced cancer etc). To have an insight view of the cell at nuclear and molecular levels many techniques like, DNA, RNA extraction, immunohistochemistry, enzyme histochemistry, gas chromatography techniques etc have also been used regularly..

The present course therefore has been designed with an aim to impart the fundamentals of the techniques and add to the knowledge of budding researchers, scientists and academicians, working in various areas of animal health, production and reproduction for better diagnosis and management of diseases of farm and lab animals. The prime objective of this Winter School is to update the knowledge of participants about the advancements which took place in the gross anatomy, histology, histochemistry and museum technology and their applications to improve the health, productivity and reproductivity of the animals. This will be helpful for them to design integrated interdisciplinary research proposals, improve their teaching technology through the use of good quality ecofriendly specimens and models and newer diagnostic technological outputs. While designing the course contents of the present Winter School, an attempt has been made to balance the quantum of lectures and hands on practical training work for the learners with multi-disciplinary approach. A heterogeneous group of distinguished researchers, other than parent division are also expected to interact with participants. It is hoped that this Winter School by amalgamating the basic concepts and current progress in area of applied anatomy and histopathology shall be providing a good platform to the participating professionals to discuss, interact and enhance their competence and work efficiency in their day to day performance by imbibing the knowledge and experience of the learned faculty members. Thus this Winter School will provide a unique opportunity to the participants to interact and exchange their view points, knowledge and experience with the senior colleagues in their specialized fields and at the same time foster the inter disciplinary and inter-institutional collaborative research works in the field of Veterinary Science and animal husbandry. Hence, this will serve to the cause of improving the health and productivity of livestock.

Eligibility

- The participants not below the rank of Assistant professor/Scientists or equivalent positions in the subject of anatomy, physiology, pathology, pharmacology, biochemistry, surgery, gynecology, medicine, biotechnology and allied disciplines.
- Personnel of related field in Veterinary/ Agricultural Universities/ ICAR institutes/ Aligarh Muslim University/ Banaras Hindu University/ Vishva-Bharati University and Nagaland university working not below the rank of Scientist/ Assistant Professor or equivalent.

How to apply

Applications are invited from eligible candidates in the given format along with the Registration fee of Rs. 50/- as demand draft (DD) in favour of the **FINANCE OFFICER, DUVASU, MATHURA** payable at Indian Overseas Bank (IOB), Veterinary College Branch, Mathura. The candidate shall apply online by visiting the Website : <http://cbp.icar.org> in or through capacity building programme link under <http://www.icar.org.in>. A hard copy of the completed application in prescribed format duly recommended by the competent authority of the Institute should be sent to the Course Director, Winter school by post before the last date. An advanced copy of the applications may be sent by email anawinterschool22@gmail.com. The last date for receiving the completed and duly filled and forwarded application is **15th December, 2022**.

Travel

The participants will be reimbursed to and from travel fare by shortest rail (permissible upto AC II tier)/ road route as per ICAR norms on production of valid travel documents.

Mathura is well connected to major cities of India by rail and road. It is 145 km from New Delhi. The auto rickshaw can be hired from Mathura Jn. Railway Station and Bus Station for the university campus round the clock. The selected participants are advised to make return journey reservation well in advance on their own accord.

Boarding and lodging

Out station participants will be provided free boarding and lodging in the University Guest House on sharing basis. The participants are requested not to bring family members with them as it will be difficult to accommodate any accompanying person in the University Guest House due to limited available accommodations, and many ongoing activities at the campus simultaneously. The weather during the month of January will be cold with the temperature ranging 11^oC to 22^oC.

Important Dates

Last date of receiving application	: 15 th December, 2022
Intimation of selection to participants	: 20 th December, 2022
Course duration	: 10 th January to 30 th January, 2023

Contact

Course Director

Dr. Archana Pathak

Professor and Head

Department of Veterinary Anatomy

College of Veterinary Science & Animal Husbandry

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Course Co-Coordinator

Dr. Shriprakash (08279505956)

Dr. Varsha Gupta (09412180260)

Application Form for ICAR Sponsored Winter School on

“Recent advances in knowledge of structural dynamics and their applications to improve animal health, production and reproduction”

(10th January to 30th January, 2023)

(Fill the form in CAPITAL letters)

1. Full Name
2. Designation
3. Present Employer
4. Address for correspondence
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Phone: Mobile: Email:
5. Permanent Address
6. Date of birth
7. Sex (Male / Female) 8. Marital Status (Married/unmarried)
9. Teaching/Research/Professional experience (Mention post held during the last five years and Number of publications).
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10. Details of Registration fee
11. Academic records

Degree	Discipline	Year	Division	University/Institute
Ph.D.				
Masters				
Graduation				
Any other				

Date:

Place:

(Signature of the applicant)

Recommendation of forwarding authority (signature with date, designation and name of institute)

.....
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It is certified that information furnished by the candidate has been verified and found correct.

Date:

Place:

Signature of forwarding authority with seal