

Phone: 07752-225177  
Fax: 07752-237291



E-Mail :info@cmdpgcollege  
Website: www.cmdpgcollege

(ESTD.1956)

## C.M. Dubey Post Graduate College, Bilaspur(C.G.)

(NAAC Accredited 'A'. UGC declared college having 'Potential for Excellence')

A constituent College of Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (Chhattisgarh)

Circular No. CMD/2018-19/ Skill dev. / Zoology/ dated 29/10/ 2018

**A REPORT OF  
AN INTERCOLLEGIATE ANIMAL MODELLING WORKSHOP  
COLLABORATIVE UNDERSTANDING WORKSHOP (CUBE) ORGANISED BY  
DEPARTMENT OF ZOOLOGY, C.M. DUBEY POST GRADUATE COLLEGE,  
BILASPUR CG IN COLLABORATION WITH HOMI BHABHA SCIENCE  
EDUCATION CENTRE (TIFR), MUMBAI ON OCTOBER 31<sup>ST</sup>, 2018**

**Dr V.K. Gupta, Convener**

*Assistant Professor, Head, Department of Zoology, C.M.Dubey Post Graduate  
College, Bilaspur*

A collaborative effort was made to organise an intercollegiate activity by Department of Zoology of C.M.Dubey Post Graduate College, Bilaspur (CG) and CUBE, Homi Bhabha Science Education Centre, Mumbai on October 31<sup>st</sup>, 2018. The undergraduate and post graduate students of local colleges were also invited for participation.

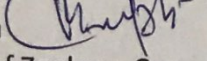
The workshop was inaugurated by Prof. G.D. Sharma, Hon'ble Vice Chancellor, Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur on October 31<sup>st</sup>, 2018 in the College auditorium. In the inaugural address Prof Sharma expressed his pleasure for having organised the workshop on such an interesting topic. He pointed out that model organisms are biological databases dedicated to study various aspects of biological inquiry. The hands-on training to culture Animal Model organism in a collaborative approach is very much appreciated and expected to have significant outcome of the activity. Sri Sanjay Dubey Hon'ble Chairman Governing Board of C.M.Dubey Post Graduate College, have congratulated the Department of Zoology for organising the academic activity on such a significant topic. He specially thanked Learned Prof. M.C. Arunan of Science Centre, HB Centre Mumbai for having a collaborative activity with the College. Dr Sanjay Singh Principal of the College, expressed his pleasure and said that this collaboration will go a long way to investigate the biological characteristics of the organisms.

Dr V.K. Gupta Convener of the workshop explained the aims and the schedule of the workshop and requested the participants to actively participate in the workshop actively and to take to benefit of learned resource person Prof. M.C. arunan, H.B. Science Education Centre, Mumbai.

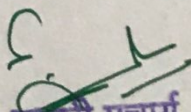


Prof. M.C. Arunan in his key note address explained the significance of collaborative approaches and the significance of Animal Modelling Experiments is the most interesting and functional mechanism to investigate biological systems.

The activity was aimed to educate students to learn to do science collaboratively by simple experimentation of culturing and recording some observations. For examples students were encouraged to culture fruit flies from their surroundings. In the laboratory simple disposable plastic bottles and glasses were used to trap fruit flies on Banana peel and tomatos. The observations were recorded by using some simple tools digital media viz. Mobile camera for instant communication. The initiative started by CUBE HB Centre Mumbai has inspired more than 100 academic institutions in the country. Students were motivated to record various issues concerning phenology including those on climate change. The students were enlightened with various animal model systems are being developed by CUBE. An attempt was made to teach students on real data collection and analysis. The study of circadian rhythm in *Drosophilla* is a (Nobel Prize winning field). Simply by data collection and analysis of activity pattern of the model organisms may reveal some significant information's. All participants were divided in groups and were taken to laboratory to give them hands on training to investigate the animal modelling activities in laboratory simulated conditions. Recently the dissections of animals for experimentation have been banned by Ministry of Higher Education and Ministry of Environment and Forest, Govt. Of india, So animal modelling experimentation proved very helpful in educating various biological characteristics of the animals by simple experiments of animal modelling. The interesting part of the animal modelling activity created immense interest and became a fun to study them. It's really evoked to ignite critical thinking and research aptitude in the students. They participated with great enthusiasm. Large no of students from neighbouring institutions have joined the activity. All the students were asked to join a whatsapp group of CUBE. It was the activity of CUBE in the Chhattisgarh State. In our College a Cube activity group has been formed for Bilaspur. The idea was to teach students to be inquisitive and develop creativity and to develop an aptitude for research work through these model organisms and studying the changes of natural cycle. The emergence of a culture of collaboration and cooperation among stakeholders of intercollegiate institutions has synergised the learning environment. Dr Komal Singh Assistant Professor, in charge CUBE Bilaspur was also invited as resource person and has guided students. Dr Indira Chaturvedi, Assistant Professor & Co-convener, has offered vote of thanks to the guests of the ceremony. After inaugural ceremony participants were taken to lab for experimentation. Ms. Priyanka Kairwart and Ms. Shivani Guest faculty members is appreciated and duly acknowledged.

Dr V.K. Gupta   
Head, Dept. of Zoology, Convener,  
C.M.Dubey Post Graduate College, Bilaspur CG

**Dr. V. K. Gupta**  
Head  
Department of Zoology  
C.M.D. Post Graduate College  
Bilaspur (C.G.) 495001

  
प्रमोदी प्रचार्य  
Dr Sanjay Singh  
सी.एम.दुबे जी महाविद्यालय  
Principal (In Charge)  
C.M.Dubey Post Graduate College,  
Bilaspur (CG).





## **C.M.D. POST GRADUATE COLLEGE, BILASPUR**

**Collaborative Understanding Biology Education (CUBES) WORKSHOP 2018**

**Jointly Organised By**

**Department of Zoology in Collaboration with Homi Bhabha  
Centre for Science Education (TIFR),  
Mumbai**

**CERTIFICATE**

*This is to certify that Mr. .... **AYUSHI SAHU** ..... has*

*attended one day hands on training programme at **C.M.D. POST GRADUATE COLLEGE,***

***BILASPUR(C.G.) on October 31<sup>th</sup>, 2018***

**Dr. Sanjay Singh**  
Principal (in Charge)

**Dr. V.K. Gupta**  
Head, Department of Zoology

**Dr. M.C. Arnon**  
Coordinator, HBCSE