

HEALTH EDUCATION BUREAU

(Bringing Innovations in Health & Learning)

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Handwritten notes:
DSD
- Circulate
affiliated colleges
27/04/2016

गडचिरोली विद्यापीठ, गडचिरोली
महाविद्यालय व विद्यापीठ विकास मंडळ
आवक क्र. 2608 दिनांक 28/4/16
जावक क्र. 1355 दिनांक 28/4/16

Ref.No. : HEB/DGF/2016/1100

Date: 26/03/2016

To,
Vice Chancellor
Gondwana University,
MIDC Road Complex, Gadchiroli - 442 605,
Maharashtra.

Subject: To make available "Digi Frog" Software in your **University Departments / Affiliated Colleges** as per **UGC's recent guidelines**.

Ref. No: UGC Guidelines Letter Ref. No. F.14-6/2014 (CPP-II), Dated: 5 Aug 2014 (Copy Attached)

Respected Sir/Madam,

Greetings of the day, we want to bring in your kind notice that, recently UGC has issued guidelines through its letter Ref.No: F.14-6/2014 (CPP-II), Dated:5 August 2014 (Attached - also available on the official website of UGC, on the Link http://www.ugc.ac.in/ugc_notices.aspx). The mentioned guidelines has stated to stop animal experimentation at under graduate & post graduate level and has stated to do animal experiments on computer by using computer assisted learning software-"DIGI FROG" (as mentioned in point no 7.1.3 Page No.4 of the mentioned guidelines).

The Digi-Frog software gives students the ability to perform animal dissections virtually. With the help of this software students can expand their knowledge with interactive experimentation & eye-opening illustrations. This software covers dissection of following animals

- Frog
- Earthworm
- Pila
- Cockroach
- Fish
- Rat
- Cray Fish, Scoliodon, Pigeon, Crab, Grasshopper and 40 more animals (As per specific demand of user).

As your University Departments / Affiliated Colleges comes under jurisdiction of UGC (As mentioned on UGC's official website on Link: <http://www.ugc.ac.in/oldpdf/alluniversity.pdf>), so we request you to take necessary steps to make "Digi Frog" Software available in your University Departments / Affiliated Colleges. For making the software available filled **subscription form (attached with letter)** with the requisite fees (as mentioned in form) is needed to be sent to us.

If you have any query you can contact to Mr.D.Ahuja (Director, Support & Sales Division) on Mob. No: 9636348191.

Thanking You.

Manju Makhija
Executive Editor & Director DSD (Digital Service Division)

Handwritten signature:
Manju Makhija
27/4/16

Enclosed:

- Copy of UGC Guidelines with highlighted point no 7.1.3 on Page No.4- stating use of "Digi-Frog"
- Subscription Form (Containing Subscription Tariff)



प्रो. (डॉ.) जसपाल एस. सन्धू
सचिव

Prof. (Dr.) Jaspal S. Sandhu
MBBS, MS (Ortho), DSM, FAIS, FASM,
FAFSM FFIMS, FAMS
Secretary



सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग
University Grants Commission

(मानव संसाधन विकास मंत्रालय, भारत सरकार)
(Ministry of Human Resource Development, Govt. of India)

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BY SPEED POST

D.O.No. F. 14-6/2014(CPP-II)

5th August, 2014

Dear Sir/Madam,

I trust you would agree that there has been an enormous degradation of biodiversity resulting into massive ecological imbalances as also natural calamities. Though there are a number of factors, one of the most significant reasons is the brutal use of animal species for dissection purposes at post-secondary levels of education and that too at a time when there are alternative mechanisms available for providing hands-on experience to the students. I believe the time has come when we should make profitable use of the ICT available around us.

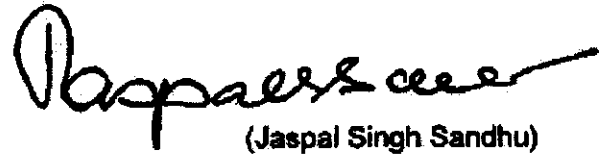
Having regard to the above, the University Grants Commission has issued the Notification under section 12(j) of UGC Act, 1956 urging all the universities to stop dissection of animals at undergraduate and postgraduate levels. A copy of the Notification is enclosed for the ready reference and immediate action. This notification comes into force with immediate effect.

The copy of the notification can also be downloaded from the UGC website (www.ugc.ac.in). All the university departments and the affiliated and constituent colleges under your university should be given specific instructions to stop dissection of animals both at undergraduate and postgraduate levels. In lieu of this, you are requested to employ alternate technology which is available in plenty, to provide similar hands-on-experience to students.

You are asked to ensure complete compliance of the aforesaid notification with intimation to the UGC. This may please be accorded Top Most Priority.

With kind regards,

Yours sincerely,


(Jaspal Singh Sandhu)

Encl. : As above.

Vice-Chancellor of all Universities.

Copy to:

1. Publication officer, UGC- for uploading on UGC Website.



**University Grants Commission
New Delhi**

Notification

No.F.14-6/2014 (CPP-II)

1st August, 2014

Subject: Dissection and Animal Experimentation in Zoology /Life Sciences and allied disciplines in undergraduate, postgraduate and research programmes.

In exercise of powers conferred by Section 12 (j) of the UGC Act, 1956, the UGC hereby issues the following instructions in regard to animal experimentation in Zoology/Life Sciences and allied disciplines.

1. Application

The instructions contained in this notification shall be applicable to Undergraduate, Postgraduate and Research programmes run by Departments of Zoology/Life Sciences and allied disciplines of all Universities including their constituent and affiliated colleges, , institutions declared as Deemed to be Universities under Section 3 of the UGC Act and Institutions of National Importance empowered to award degrees under Section 22 of UGC Act, 1956.

2. The instructions contained in this notification shall come into force with immediate effect.

3. Introduction:

Animal dissection as an aspect of Zoology curriculum is in practice for a long time. Further, with the increase in number of institutions, more than a million students undergo programs requiring animal dissections. Most of these animals are caught from the wild life. Their indiscriminate removal from their natural habitats disrupts the biodiversity and ecological balance. Thus, use of animals in dissections has come to be a factor compounded with habitat loss, pollution and climate changes responsible for the gradual depletion of animal populations. It is a fact that the demand for dissection specimens increases pressure on threatened species. The case of frogs, the population of which has declined to alarming levels in the recent times, is often cited as the example. Also, it has been noticed that laws/regulations/guidelines about animals and their welfare are not observed while prescribing animal use in the curriculum. It is, therefore, felt that the curriculum must be revamped to accommodate the latest developments. Considering the seriousness of the issue, the UGC has decided to issue appropriate instructions in the form of this notification to all universities and other higher educational institutions to do away with the animal experimentation in Zoology/Life Sciences and allied disciplines at Undergraduate and Postgraduate levels.



purposes. The teachers shall demonstrate one or more aspects of anatomy to students with the help of digital alternatives, models and charts etc.

7.1.2 The curriculum, both theoretical & practical for Invertebrates and Chordates, as the case may be, shall be oriented towards levels and patterns of organization, biosystematics, biodiversity, adaptations, developmental stages, population dynamics, ecological implications, etc. The laboratory exercises should make use of museum specimens and microscopic preparations, photographs, video clippings, models, charts, plastinated specimens, field observations combined with photography and/or videography, and so on. Intermittent field visits should be arranged.

7.1.3 Digital alternatives such as ProDissector Frog, BioLab Frog, DigiFrog, Dissection Works etc. are available in plenty on various platforms and market. They should be suitably procured from commercial sources or internet. Many of these digital learning devices have modules for testing, which can be used to evaluate the students at the examination. Separate budgetary provision should be made by the concerned institution for the procurement of digital material and technology.

7.1.4 During the field visits, the students shall only observe the animals and make record of the observations. The animals shall neither be killed nor removed from their natural habitat. To that effect, students should be told about the importance of biodiversity and its conservation.

7.1.5 Skill laboratories should be developed by institutions to train students on interactive plastic models.

7.2 For Research programs

The curriculum for research students pursuing research programmes shall be designed and taught in accordance with instructions at 5.2 and 5.3.

8. Long Term Actions:

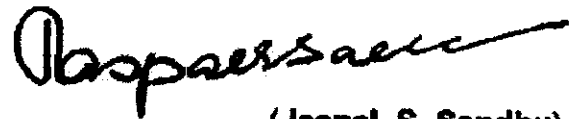
8.1 Human Resource Development through training programs towards adopting alternative modalities for research should be envisioned & systematically planned for.

8.2 Instructions at 7.1.3 above touches upon digital alternatives for animal anatomy and physiology. These and several other digital alternatives, readily available, make laboratory learning much more rewarding than wet lab exercises. Since these are ICT based, the teachers need to be trained in these alternatives. The Higher Educational Institutions may conduct 3-5 day dedicated workshops for this purpose with the help of Organizations with experience/ expertise in the field.

9. While software(s) are already available, it is important that newer software/simulations adapted to the Indian context are developed. Being one of the Software Giants of the World, appropriate software should be developed in India and be made available in downloadable form to the institutions without cost through INFLIBNET/ NMEICT.



10. Departments of Zoology/Life Sciences and allied disciplines should be empowered with appropriate information communication technology (ICT) for implementing the above recommendations. All departments dealing with animals for teaching and learning should be empowered with ICT infrastructure required for the purpose. Such infrastructure can be developed by using specific assistance earmarked for "Books and Journals" and "Laboratory equipment and infrastructure". Institutions of higher education shall have to accord top most priority to this and ensure that such infrastructure is created from the funds and resources available with them.
11. All universities and colleges shall report the compliance to these instructions to the UGC immediately and also indicate suggestions, if any, for better implementation of this notification within three months from the date of this notification.



(Jaspal S. Sandhu)
Secretary

01/08/2014