

**GUIDELINES**  
for  
*Writing*  
Synopsis  
&  
Thesis/Dissertation  
by  
Postgraduate Students



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Ludhiana-141004, Punjab (India)

**2021-22**

*Revised and Compiled by:*

**Dr. H. S. Banga, Registrar**

**Dr. S. K. Uppal, Dean, Postgraduate Studies**

**and**

**Dr. Nirmal Singh, Assistant Librarian**



## Forward

After establishment of the Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Dr. S. K. Jand and Dr. N. S. Sharma compiled the guidelines for preparation of synopsis and thesis/ dissertation in 2008, which served as a preliminary guide for both students' vis-à-vis advisors for preparing the synopsis and thesis/dissertations and enabled for bringing uniformity in synopsis/thesis writing. As these guidelines were penned more than a decade back, various changes have taken place over the years, alacrating need for the revised, updated and comprehensive guidelines for writing of synopsis and thesis/dissertation(s) and taking into its ambit all procedural guidelines/ proforma(s) in ready to use format(s).

This compendium of revised guidelines encompassing the various updates and proforma(s) required during the whole process of thesis/dissertation(s) writing will serve as a vital reference source for postgraduate students' and their advisors. The revised guidelines will also bring uniformity in reference styles both for synopsis and theses/dissertation(s). The use of Reference Management Software will not only expedite the citation and reference management but will also bring a greater accuracy in this part of synopsis/thesis/dissertation(s).

I appreciate the efforts of Dr. Harmanjit Singh Banga, Registrar, Dr. S. K. Uppal, Dean Postgraduate Studies and Dr. Nirmal Singh, Assistant Librarian for developing this wholesome package of guidelines including all necessary proforma(s) required during the research work at both masters' and doctorate level, which will be a ready reckoner for students, staff and faculty.

  
(Inderjeet Singh)  
Vice-Chancellor

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## GUIDELINES FOR PREPARING SYNOPSIS

Every postgraduate (PG) student shall be assigned to a **major advisor** from amongst the PG faculty by the concerned Head of the Department, keeping in view the recommendations of the Departmental Academic Affairs/Teaching Committee and approved by the Dean, Postgraduate Studies within two months of admission (**Rule 5.0 of Chapter-II (Academic Rules for Postgraduate Programmes) of the Academic and Hostel Rules 2021-22**) and as per outlined guidelines for student allotment issued from time to time with amendments. On the recommendations of the advisor, through the Head of the Department, an **Advisory Committee** for each student be appointed by the Dean, Postgraduate Studies. The Advisory Committee of the student (Masters'/ Ph.D.) shall comprise of 4/5 members chosen from the Postgraduate Faculty (interdisciplinary) relevant to the research problem of the student (**Rule 5.0 of Chapter-II: Academic Rules for Postgraduate Programmes**). The programme of work (Annexure-I) to be taken shall be drawn by advisory committee of the student by the end of first semester of programme and **five copies** of the same be submitted for approval to the Dean, Postgraduate Studies.

The postgraduate (PG) student shall prepare a synopsis of his/her contemplated thesis in consultation with the major advisor and submit **five copies** of the same to the Dean, Postgraduate Studies through the Head of the Department at the end of I<sup>st</sup> Semester. However, in an exigency, the synopsis must be submitted before the second semester (by the end of 7th week), with the prior approval of the Dean, Postgraduate Studies (**Rule 5.0 of Chapter-II: Academic Rules for Postgraduate Programmes**) on the recommendation of the concerned Head of the Department. The submission of synopsis as per **Rule 5.0 of Chapter-II: Academic Rules for Postgraduate Programmes** shall be preceded by the **synopsis-seminar** to be delivered by the PG student in his/her concerned department to the satisfaction of the concerned teacher and the advisory committee. Normally, research work should only be undertaken after the approval of the synopsis by the Dean, Postgraduate Studies. The selection of the PG Research Problem shall, as far as possible be in unison to the following:

- i) Research goals of the department, in line to research mandate of the University and as envisaged in the vision document
- ii) Emergent research needs of the State
- iii) Area of specialization of the major advisor and/or the ongoing research project(s) of Principal Investigator of the scheme
- iv) Student's aptitude/ potential (for Ph.D. students)

It should always be paramount that **conceptualized focused problem-solving original research** is carried out. The student should become innovative and creative and should choose the topic of research having practical implications and/or should be of societal relevance, as per research mandate of GADVASU.

## COMPONENTS OF THE SYNOPSIS

### Annexure-II

The synopsis submitted for the first time should bear the line numbers for proper indication of the correction(s) if any.

#### 1. Title of the Research Project

- The title should be given in **CAPITAL LETTERS**. It should be concise, specific and must reflect the proposed research work.
- Scientific names in the title, if any, must be written in Latin binomial or trinomial.

#### 2. Introduction and objectives (maximum 300 words)

- Importance, scope and nature of the work proposed for research should be well highlighted.
- The **hypothesis** of the contemplated research problem should be identified on the basis of **gap(s) in scientific knowledge/literature** about the problem.
- A few **pertinent references** may be included in the introduction substantiating the gap in knowledge/science about the proposed research.
- **Objectives** of the proposed study should be clearly identified and explicitly presented.
- This part should not exceed 300 words.

#### 3. A brief review of relevant literature

The review of literature should encompass the previous concepts/ literature and explain how the proposed research has been built on the basis of past work(s). **Latest and specific references, (not more than 15 in case of Masters' and a maximum of 20 for Ph.D.)** should be included.

#### 4. Technical programme of the work

The experiments should be meticulously planned in accordance with the outlined objectives in the proposed research. The following points should be mentioned **under each experiment**:

- i) Name of the experiment
- ii) Location/ place of work
- iii) Research Methodology and Experiment Design
- iv) Observations to be recorded
- v) Statistical analysis

- Develop feasible Technical Programme of work so that the research project can be completed in time
- Only those observations/analytical techniques should be included for which advisor(s) can ensure the availability of research material(s) and other facilities like equipment,

laboratory and experimental animals.

- All the activities to be undertaken under each experiment should be identified and given in “**Time Frame Activity Table**” (Annexure-III)

**5. Collaboration with Department**

The name of faculty member collaborating the research project be listed and nature of collaboration be got approved from the head of the collaborating department.

**6. Societal benefits**

The practical implication(s) of the outcome of contemplated research work vis-à-vis its societal significance should be clearly stated in synopsis.

**7. References**

List all the references not more than 15 in case of Masters’ and up to 20 in case of Ph.D., in all, in alphabetical order (as per American Psychological Association (APA) Reference Style, 7<sup>th</sup> Edition), giving all authors with initials after respective surname, year of publication, full title of paper, name of journal (preferably spelt out in full), volume, issue number within parentheses and complete page-range (not merely the first page) and DOI (where available) (Annexure-IV). If abbreviation is to be done, then abbreviate the journals as in CAB Abstracts, Biological Abstracts or World List of Scientific Periodicals. The use of reference management software viz. Mendeley, Zotero, Endnote, etc. for compilation of references shall be appreciated.

Example:

**In text citation:** (Balouria et al., 2019)

**8. Declaration on the use of animals/birds**

The declaration on the use of animals/birds (as per Annexure-XI(B)) should be submitted along with the synopsis following the approved guidelines by Animal Ethics Committee (AEC) and the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) on the norms and practices for regulation of animal experimentation (Annexure XI/ XI(A)) and form of application (Annexure-XII). Record of animals acquired and experiments performed has to be maintained by the investigator (Annexure-XII(A))

**APPROVAL OF THE SYNOPSIS**

The synopsis shall be considered by Synopsis Approval Committee of the University under the Chairmanship of the Dean, Postgraduate Studies (**Rule 6.7.1 of Chapter-II (Academic Rules for Postgraduate Programmes) of the Academic and Hostel Rules 2021-22**). The decision will be communicated by the Dean, Postgraduate Studies to the Major Advisor. Thereafter normal research work will be started by the student.

## **GUIDELINES FOR PREPARING OF THESIS/DISSERTATION**

A PG student may submit his/her thesis/dissertation on any date during the semester after having completed the course requirements and the required number of research credits besides having cleared mandatory comprehensive examination in Master's (Major) and Ph.D. (Minor, Major I & II). The following steps should be followed for the preparation and submission of the thesis/dissertation to the Dean, Postgraduate Studies.

### **1. Presentation of thesis/dissertation seminar**

Before the submission of the rough draft for the thesis/dissertation to the Dean, PGS, a seminar should be given by the student presenting all the data preferably supported with statistical analysis to the advisory committee, other faculty members and students.

### **2. Submission of the rough draft of the thesis/dissertation**

Draft of the rough thesis/dissertation complete in all respects shall be submitted to the Advisory Committee and Dean, Postgraduate Studies, **at least 10 days before the final submission** of thesis (Annexure-XVI).

### **3. Submission of the final thesis/dissertation**

The members of the Advisory Committee shall return the draft of the thesis/dissertation along with the suggestions within one week. The major advisor should ensure that the suggested changes, if any, have been incorporated.

Certificates I and II (Annexure VIa and VIb) along with the abstract (Annexure VII) should be incorporated after the title page (Annexure Va and Vb).

The master's and Ph.D. student(s) shall be required to submit two and three copies of final draft of thesis, respectively having loose (kacha) binding, to the Head of the Department through respective advisor, for external evaluation. The Head of the Department shall send one copy of thesis/dissertation in case of Master's and two copies in case of Ph.D. student to the Dean, Postgraduate Studies for further necessary action and the rest to be retained in department **as per rule 6.7.3 of Chapter-II: Academic Rules for Postgraduate Programmes.**

After the final oral examination, the students will submit five copies of thesis in case of Master's degree students and six copies of dissertation in case of Ph.D. students, with binding, after incorporating correction(s) marked/ suggested by the external examiner(s), to the Head of the Department, who will send these copies to the Dean Postgraduate Studies.

Each student submitting a thesis/dissertation for M.V.Sc./M.F.Sc./M.Sc./M.Tech. or Ph.D. must also submit five copies of the one page abstract (**not exceeding 250 words**) separately (see Annexure-VII).

The manuscript of the thesis/ dissertation should be as concise as possible (normally, 50-80 pages for **M.V.Sc./M.F.Sc./M.Sc./M.Tech. thesis**, and over 100 pages for **Ph.D. dissertation** excluding references.

## COMPONENTS OF THESIS/DISSERTATION

### 1. Preliminary pages

The preliminary pages must include the title page, the certificates, acknowledgements, abstract and table of contents. Dedications should be avoided. For paging refer to 2 h) as below:

#### a) Title page

The title page should be printed exactly in accordance with the sample [Annexure V(a) or V(b)]. The date appearing on the title page must be the year in which the thesis/dissertation is submitted. It should bear a sign of copyright for Intellectual Property Rights (IPR) before name of the University, vis ©Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, as per orders of the Dean, Postgraduate issued vide Memo No. PGS/A-I/15/2981-3005 dated 30.06.2015.

#### b) Certificates

Certificates of completion of work and approval of the thesis/dissertation by the Examining Committee should be included in the preliminary pages. These two certificates must be included on two separate pages exactly as given in Annexure VI(a) and VI(b) attached.

#### c) Acknowledgements

Acknowledgement(s), if any, should be brief (**not more than 200 words**). This should follow the title page and is assumed to be page iv, but the number is not typed on page. All those who rendered the help in technical matters should be acknowledged.

#### d) Abstract

Abstract, not exceeding 250 words should be included as per Annexure VII.

#### e) Table of contents

Except the title page, certificates, acknowledgements and abstract, all other major divisions of the thesis/dissertation should be listed in the table of contents (Annexure VIII). These divisions and sub-divisions, if any, must conform in wording and style with the text.

### 2. Main body of the thesis/dissertation

#### a) Text

The detailed organization of the text will vary with thesis in different subject(s) of specialization, but a consistent style must be followed. **In general, the text is divided into: (i) Introduction, (ii) Review of Literature, (iii) Material and Methods, (iv) Results and Discussion, (v) Summary and conclusions and (vi) References.**

The text of the thesis may also include illustrations, tables, photographs, chemical and mathematical formulae and footnotes.

**b) Tables**

Tables should be self-explanatory. Headings and the column/row entries should be clearly related. Tables less than half a page may be preceded or followed by the text. All tables should be numbered with **Arabic numerals**, consecutively throughout the thesis.

**c) Formulae**

Mathematical and chemical formulae should be carefully made out by computer. Complex mathematical formulae of two or more lines should not be included in text lines, but should be placed in the proper position in the centre of the page between lines of text.

**d) Scientific names**

Give generic names in full at the first mention, e.g. *Myzus persicae*. (Sulzer). Thereafter abbreviate them in the text, e.g. *M. persicae*.

**e) Illustrations**

Illustrations used in the thesis must appear in all the copies. Illustrative materials may be in Arabic line drawings or photographs. Illustrations may be inserted wherever needed in the text, numbered in **Arabic numerals** typed on a thesis paper below the illustration.

The illustrations must be prepared using computer. The size of illustrations could be reduced photographically. All copies of the photographs, when used should be reproduced from the original negatives or using the computer having the original prints preferably. Photocopies of the photographs are not to be used. Photographs should be pasted using the good quality glue. The photo mounting corners, 'scotch tape' or staples should be strictly not put to use.

**f) Thesis paper**

The original thesis/dissertation as well as the photocopies should be prepared on a good quality white bond paper cut to A4 size. All pages must have 1.5" margin on the left and 1" on the right and on the top and bottom, with no gutter.

**g) Typing/ printing**

The thesis **must be computer typed**. The general text of the manuscript should be typed in double space and tables/long quotations/foot notes/Abstract in single space. The general text should be typed using Times New Roman font, 12-font size, 1.5 line spacing with standard abbreviations. Printing of thesis (for both Masters' and Ph.D.) should be done on both sides of the page.

**h) Pagination**

Certificates of approval, title page, acknowledgements and abstract should not be given any page number. The first page of the table of contents is numbered v or vi depending on whether or not any acknowledgment is used. For text, **Arabic numerals** are used beginning with the first page of the text and continued throughout the rest of the thesis including the references. Suppress the page number in first page of each chapter.

The pages on which the correction(s) have been suggested by the External Examiner will

have to be retyped. It may happen in a few cases that the external examiner suggests adding new material/ information. This would likely disturb the paging of the thesis and is therefore, required to be corrected accordingly and re-paging be done. Numbering pages like 20a, 20b, 20c etc. would not be permitted.

**3. References in the text should be cited as under:**

As per point 7 (References) of Components of the Synopsis given on page 3, and Annexure-IV

**4. Appendices**

Appendices should be avoided as far as possible. Any material like test forms, blank record forms, apparatus etc. may be included under Material and Methods. Any questionnaire used in the study may be added as an appendix.

**5. Vita**

The Vita should be given at the end of the thesis/dissertation on a separate page (Annexure IX).

**6. Resubmission of thesis/dissertation**

If a thesis/dissertation is not accepted, the candidate may be allowed to re-submit it after making modifications in the light of remarks of the Examination Committee. Resubmission is allowed after a lapse of not less than one full semester. Resubmission will be processed in the same manner as the original submission.

**Note: In order to understand the corrections to be made in the text, the “Punctuation Marks” and abbreviations for Weights/Measure/Calendar have been given in Annexure X.**

**Publications emending from thesis:**

As per the University guidelines issued as per **Rule 6.7.5 of Chapter-II (Academic Rules for Postgraduate Programmes) of the Academic and Hostel Rules 2021-22.**

**Note:**

In case a student fails to appear in the final oral examination, he/she may be required to apply for arranging a fresh examination or register for one more semester **as per point (vii) of Procedure of 7.16.**

Amendment(s), if any, in light of the situation caused due to COVID-19 or any other future revision(s) shall be applicable.

The various documents pertaining to synopsis and thesis/dissertation may be pursued in digital mode as and when the e-Office is implemented by the University.

## PROFORMA FOR SUBMISSION OF PROGRAMME OF WORK OF POST-GRADUATE STUDENTS

## GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY

PROGRAMME OF WORK FOR POST-GRADUATE STUDENTS  
to be submitted by HOD in quintuplicate

To

The Dean  
Postgraduate Studies  
Guru Angad Dev Veterinary and Animal Sciences University  
Ludhiana

The Advisory Committee of Shri/Mr./Mrs. \_\_\_\_\_  
son/daughter of Shri \_\_\_\_\_ & Smt. \_\_\_\_\_  
Admission No. \_\_\_\_\_ admitted in the Department of \_\_\_\_\_ in  
\_\_\_\_\_ programme during the Academic Year \_\_\_\_\_ Semester I/II, after consulting  
him/her in a meeting, submit the following statement and recommendations:

His/Her major field is: \_\_\_\_\_

His/Her field of specialization is: \_\_\_\_\_

His/Her minor field is: \_\_\_\_\_

His/Her academic qualifications prior to joining this programme

<i>Degree or Diploma</i>	<i>Year of passing</i>	<i>Division</i>	<i>Aggregate %age of marks or OGPA/ OCPA</i>	<i>Institution</i>	<i>Major subject</i>
High school/ Higher Secondary					
B.V.Sc./ B.V.Sc. & A.H./ B.F.Sc./ B.Sc.					
M.V.Sc./ M.F.Sc./ M.Sc./M.Tech.					
Other (Please specify)					

Admission No. \_\_\_\_\_

Relevant courses studied at the undergraduate level in major and minor fields:

Title of the Course	Course No.	Credit Hours	Grade/CPA

Course studied in major, supporting and minor fields or as deficiencies in Master's programme:

Title of the Course	Course No.	Credit Hours	Grade/CPA

This information is to be furnished for Ph.D. students only.

Admission No. \_\_\_\_\_

Courses to be completed by the student:

<i>Classification of Courses</i>	<i>S.No.</i>	<i>Course No.</i>	<i>Title of the Course</i>	<i>Credit Hours</i>
(i) Deficiencies to be Completed	1			
	2			
	3			
	4			
	5			
				Total:
(ii) Major	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
			Total:	
(iii) Supporting	1			
	2			
	3			
	4			
	5			
				Total:
(iv) Minor	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
				Total: Grand Total:

Signature of the Student .....

Admission No. \_\_\_\_\_

### ADVISORY COMMITTEE

Name	Designation & Department	Signature
1. _____ (Major Advisor)	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____ (Nominee of Dean PGS)	_____	_____

Certified that: 1. The courses shown under deficiency, major, supporting and minor field are according to the R.I.B.  
2. The titles and credit hours shown against each course are correct according to the R.I.B.  
3. The major and minor fields conform to those approved and mentioned in the R.I.B.  
4. The Advisory committee is in accordance with the provision of R.I.B.

\_\_\_\_\_  
(Major Advisor)

\_\_\_\_\_  
(Head of the Department)

Forwarded in quintuplicate, to the Dean, Postgraduate Studies, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana.

Memo. No. \_\_\_\_\_

Dated: \_\_\_\_\_

Head  
Department of \_\_\_\_\_

(Stamp)

For use in the office of Dean, Postgraduate Studies

Approved

Dean  
Postgraduate Studies

- 1. Registrar, GADVASU
- 2. Head, Department of \_\_\_\_\_  
(Three copies)

**Synopsis of Thesis/Dissertation Problem of Post graduate Students: M.V.Sc./ M.F.Sc./M.Sc./Ph.D.****GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY**

Name of the Student (Capital letters) : \_\_\_\_\_  
 Admission No. : \_\_\_\_\_  
 Major Subject : \_\_\_\_\_  
 Minor Subject : \_\_\_\_\_  
 Major Advisor : \_\_\_\_\_

**Title of the research problem:****Introduction and objectives** (Not exceeding 300 words):**A brief review of relevant literature** (Not exceeding 500 words):**Technical programme of work:**

The details of each experiment should be given as under:

**Experiment No.1**

- i) Name of the experiment
- ii) Location/place of work
- iii) Research Methodology and Experimental Design
- iv) Observations to be recorded
- v) Statistical analysis

Similar details of other experiment(s), if any, should be given.

**Collaboration (if any) with other Department(s)**

Name of the Department

**Consent of the:**

- i) Collaborating teacher \_\_\_\_\_
- ii) Head of collaborating Department \_\_\_\_\_

**References**\_\_\_\_\_  
**Signature of the Student****ADVISORY COMMITTEE**

	Name	Designation	Department	Signatures
Major Advisor	_____	_____	_____	_____
Member	_____	_____	_____	_____
Member	_____	_____	_____	_____
Member	_____	_____	_____	_____
Nominee of Dean PGS	_____	_____	_____	_____

Forwarded five copies to the Dean, Postgraduate studies, for approval by Synopsis Approval Committee, for M.V.Sc./M.F.Sc/M.Sc./M.Tech. and Ph.D, respectively.

**Head of the Department****Dean, Postgraduate Studies**

## Activity Table and Time schedule

Activity Table and Time schedule																			
	Activity	Semester-II						Semester-III						Semester-IV					
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
I	Date of applying for AEC/ CPCSEA																		
II	Collection of samples / materials	→																	
	Standardization of methods	→	→	→															
	Lab. experiment set up		→	→															
	Sample preparations			→															
	Biochemical analysis			→	→														
	Data collection & compilation				→														
III	Field experiment					→													
	Preparation and layout					→													
	Start of experiment					→													
	Sampling						→	→	→	→	→	→							
	Biochemical analysis						→	→	→	→	→								
	Observations						→	→	→	→	→								
	Data collection & compilation											→	→						
IV									→	→									
											→	→							
V										→	→		→	→	→				
	Thesis writing														→	→			
	Thesis seminar																→		
	Rough thesis submission																→		
	Final thesis submission																	→	

**JFMA.....D refer to name of the month**

Activity table and time schedule should be prepared as per the individual case

Note: Experiment methods and materials will vary and, accordingly the activities at I and II can be partitioned in the schedule of the work and number of semesters added for Ph.D. students.

## APA Reference Style (7<sup>th</sup> Ed.)

### **In-text Citation:**

One author	:	(Hulme, 1923)
Two authors	:	(Marsh & Landau, 1995)
Three or more authors	:	(Jyoti et al., 2019)

### **Bibliography:**

- Shorten all first and middle names of author(s) to initials.
- List all authors by last name first, then initials.
- If a source has up to 20 authors, list them all. If it has 21 or more, list the first 19, add an ellipse (three dots separated by spaces), and name the last author.

### **One or more references by the first author**

- When there is only single author, arrange references year-wise.
- In case of **two or more authors**, see the second author and arrange references alphabetically. When **first and second authors are the same** then see the third author and arrange references alphabetically and so on.
- In alphabetically arranged references, references with two or more same authors are to be arranged year-wise.

### **Journal article**

Stickle, J. E., Lloyd, J., Keller, W. F., & Cherney, E. (1999). Learning styles in veterinary medicine: relation to progression through the professional curriculum and integration into the profession. *Journal of Veterinary Medical Education*, 26(2), 9–12. <https://doi.org/10.1181/s12913-013-1923-1>

### **Preprint article**

Donald, F., Rodd, P., & Snyder, L. (2021). *Sustainable entrepreneurship: a literature review*. Preprints. <https://www.preprints.org/>

### **Online magazine article**

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### **Chapter in an edited book**

Snyder, L. B. C., & Johnson, R. A. (2014). Perioperative fluid, electrolyte, and acid-base disorders. In B. C. Lindsey & R. A. Snyder (Eds.), *Canine and feline anesthesia and co-existing disease* (pp. 1–32). John Wiley & Sons, Inc. <https://doi.org/10.1002/9781118834305>

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**For more details about references in APA style, please visit the following websites:**

<https://apastyle.apa.org/style-grammar-guidelines/references/examples>

<https://apastyle.apa.org/instructional-aids/reference-examples.pdf>

**ANNEXURE-V(a)**

**STUDIES ON RENAL FAILURE IN DOGS AND ITS RELATIONSHIP WITH  
CARDIAC FUNCTIONING**

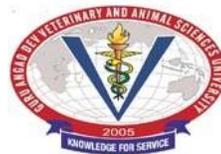
**Thesis**

**Submitted to the Guru Angad Dev Veterinary and Animal Sciences University  
in partial fulfillment of the requirements for the degree of**

**MASTER OF VETERINARY SCIENCE  
in  
VETERINARY MEDICINE  
(Minor Subject: Veterinary Surgery and Radiology)**

**By**

**Dushyant Dogra  
(L-2016-V-43-M)**



**Department of Veterinary Surgery and Radiology  
College of Veterinary Science**

**©GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY  
LUDHIANA – 141004**

**2018**

**PATHO BIO-MOLECULAR APPROACHES IN DETECTION  
OF MEAT BORNE PATHOGENS IN CHICKEN**

**Dissertation**

**Submitted to the Guru Angad Dev Veterinary and Animal Sciences University  
in partial fulfillment of the requirements for the degree of**

**DOCTOR OF PHILOSOPHY  
in  
VETERINARY PATHOLOGY  
(Minor Subject: Veterinary Microbiology)**

**By**

**Nishchal Dutta  
(L-2011-V-16-D)**



**Department of Veterinary Pathology  
College of Veterinary Science**

**©GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY  
LUDHIANA – 141004**

**2020**

**CERTIFICATE I**

This is to certify that the thesis/dissertation entitled, “\_\_\_\_\_”  
\_\_\_\_\_”  
submitted for the degree of M.V.Sc./M.F.Sc./M.Sc./M.Tech./Ph.D.,  
in the subject of \_\_\_\_\_(Minor subject:  
\_\_\_\_\_) of the Guru Angad Dev Veterinary  
and Animal Sciences University, Ludhiana, is a bonafide research work carried out by  
\_\_\_\_\_ Registration No. \_\_\_\_\_ under my supervision and that  
no part of this thesis/dissertation has been submitted for any other degree.

The assistance and help received during the course of investigation have been fully  
acknowledged.

**Major Advisor**

**CERTIFICATE II  
(For Masters)**

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submitted by \_\_\_\_\_ Registration No. \_\_\_\_\_  
to the Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, in partial  
fulfillment of the requirements for the degree of M.V.Sc./M.F.Sc./M.Sc./M.Tech., in the subject  
of \_\_\_\_\_ (Minor subject \_\_\_\_\_)  
has been approved by the Student’s Advisory Committee after an oral examination on the same,  
in collaboration with an external examiner.

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**Dean, Postgraduate Studies**

**Note:** Print the names of Major Advisor, Head of the department and Dean, Postgraduate studies and external examiner.

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University, Ludhiana, in partial fulfillment of the requirements for the degree of  
Ph.D., in the subject of \_\_\_\_\_ (Minor subject \_\_\_\_\_)  
has been approved by the Student’s Advisory Committee after an oral examination on the same,  
in collaboration with an external examiner.

**Major Advisor**

**External Examiner**

**Head of the Department**

**Dean, Postgraduate Studies**

**Note:** Print the names of Major Advisor, Head of the department and Dean, Postgraduate studies and name and address of the External Examiner.

**(ABSTRACT FORMAT)**

Title of the Thesis/Dissertation :  
Name of the student and Admission No. :  
Major Subject :  
Minor Subject :  
Name and Designation of the Major Advisor :  
Degree to be Awarded :  
Year of award of Degree :  
Total pages in Thesis :  
Name of University :

**ABSTRACT**  
(Not exceeding 250 words)

**Key words:**

\_\_\_\_\_  
**Signature of Major Advisor**

\_\_\_\_\_  
**Signature of the student**

## CONTENTS

<b>Chapter</b>	<b>Topic</b>	<b>Page No</b>
I.	INTRODUCTION	
II.	REVIEW OF LITERATURE	
III.	MATERIALS AND METHODS	
IV.	RESUTLS AND DISCUSSION	
V.	SUMMARY AND CONCLUSIONS	
	REFERENCES	
	VITA	

---

Subdivision/Sub-topics, if any, should also be given under each chapter.

**VITA**

Name of the student :  
 Father's name :  
 Mother's name :  
 Nationality :  
 Date of birth :  
 Permanent home address :  
 E-mail Address :

**EDUCATIONAL QUALIFICATION****For Master's degree students**

- Bachelor degree :  
 University :  
 Year of award :  
 OGPA/OCPA/% marks :
- Master's degree :  
 OCPA/% marks :

**For Ph.D. students**

- Bachelor degree :  
 University :  
 Year of award :  
 OGPA/OCPA/% marks :
- Master's degree :  
 University :  
 Year of award :  
 OGPA/OCPA/% marks :  
 Title of Thesis :
- Ph.D. :  
 OCPA/% marks :  
 Awards/Distinctions/Fellowships/Scholarship :

**I. Punctuation marks and proof reading symbols**

,	comma
;	semicolon
:	colon
.	full stop
-	dash
!	exclamation mark
?	interrogation or doubt
-	hyphen; as in knick-knack
'	apostrophe; as in Peter's pence
()	parenthesis or circular brackets
[]	brackets or square brackets
{ }	brace, to enclose two or more lines
“ ”	quotation marks
#	paragraph
+	plus, the sign of addition
-	minus, the sign of subtraction
±	plus-minus
x	the sign of multiplication
÷	sign of division
%	percent
=	equal, the sign of equality
≠	not equal to
≈	almost equal to
∞	infinity
>	greater than
≥	greater-than or equal to
<	less than
≤	less-than or equal to
√	square root
€	Euro
£	Pound
\$	Dollar
₹	Rupee
©	Copyright
®	Registered
™	Trademark
@	At the rate
°	degree
*	asterism, used to call attention to a particular passage
∴	because
∴	therefore

## II. Standard abbreviations relating to weights, Measures and calendar

### Weights and Measures

B	Billion
C	Celsius
Cc	cubic centimeter
Cm	centimeter(s)
Cu	Cubic
Cwt	hundred weight
Gal	gallon(s)
G	gram(s)
Gr	grain(s)
Ha	Hectare
Kg	Kilogram
Km	kilometre(s)
L	litre(s)
M	metre/mile/million(s)
Mg	milligram(s)
Mm	millimetre(s)
Mt	metric tonne
Q	quintal(s)
Sq	Square
T	tonne(s)
Temp	Temperature
µg	Microgram
µl	Microliter

### Calendar

AD	Anno Domini
am	ante meridiem
Apr	April
Aug	August
BC	Before Christ
cal	Calendar
cent	Century
d	Date
Dec	December
Feb	February
Fri	Friday
hr(s)	hour(s)
Jan	January
Jul	July
June	June
m	minute(s)
Mar	March
May	May
Mon	Monday
Nov	November
Oct	October
pa	per annum
pm	post meridiem
s	Second
Sat	Saturday
Sept	September
Sun	Sunday
Thurs	Thursday
Tues	Tuesday
Wed	Wednesday
yr(s)	year(s)

**APPROVED GUIDELINES BY COMMITTEE FOR THE PURPOSE OF CONTROL AND SUPERVISION OF EXPERIMENTS ON ANIMALS (CPCSEA) ON THE NORMS AND PRACTICES FOR REGULATION OF ANIMAL EXPERIMENTATION**

The research proposals that fall under the following categories (excluding wild animals' studies) would be approved by the IAEC of the institution(s) or organization(s).

1. Feeding trials that do not cause stress and do not involve any invasive procedure but involving measurement on:
  - Feed intake
  - Water intake body weight
  - Body size
  - Body condition and score
  - Digestibility
  - Milk production and milk quality
  - Wool production and wool quality
  - Egg production and egg quality
2. Feeding trials in food animals that do not cause stress and do not involve any invasive procedure and slaughtered in humane way, involving measurement on meat and meat quality.
3. Breeding experiment(s) that do not cause stress and do not involve any invasive procedure, involving measurement on:
  - Litter size (No. of off-springs)
  - Litter weight (Weight of off-springs)
  - Breed characters
  - Breed improvement
  - Breed preservation
  - Reproduction traits
  - Production traits
  - Age at maturity
  - Body measurements
  - Feed conservation efficiency (FCE)
4. Livestock/poultry management studies that do not cause stress and do not involve any invasive procedure, involving measurement on:
  - Animal behaviour
  - Animal comfort and health
  - Reproduction traits
  - Production traits
5. Wild animals studies that do not cause stress and do not involve any invasive procedure and without any restraintment, involving measurement on:
  - Animal behaviour
  - Animal comfort and health

The approval of the IAEC of the institutes/organizations will subject to the following conditions/ regulations:

**Conditions/ regulations**

- The study must be conducted by only trained staff who is familiar with animal care, handling and ethical issues.
- A Pucca register must be maintained by the Animal house in-charge/ Head of the Dept., containing information on names and CVs and training records of scientists/supporting staff who performed the said experiment and dates of study.
- A brief outline/method/procedure adopted for the study with source, number, sex and species/breed of animals employed for the study and the conditions/husbandry maintained.
- Results of each study collected with a copy of publication/report.
- Follow up observations recorded on the animal(s) after completion of said study with information on health status, illness, if any, and procedures of euthanasia/rehabilitation adopted, if any.
- Records of re-use of animals, if any, with details of waiting period before new study/ experiment performed.
- General conditions and health records of all animals that are used for such studies listed above.

**GUIDELINES  
ON THE REGULATION OF  
SCIENTIFIC EXPERIMENTS  
ON ANIMALS**

**Ministry of Environment & Forests  
(Animal Welfare Division)**

**Government of India**

**June 2007**

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# **INTRODUCTION**

## **1.1 Background**

The use of animals in scientific research has been an area of concern in India, given the sharp polarization of views between animal welfare activists and the scientific community of the country regarding use of animals. This led to proliferation of litigation, which impeded the pace of research.

In order to eliminate the potential for conflict, it was considered necessary to examine the international norms regarding the use of animals in scientific experiments, update regulations, streamline and simplify procedures, while ensuring ethical use of animals and reducing infliction of pain and stress on animals, during experimentation.

## **1.2 Process of Evolution of the Guidelines**

Against this backdrop, in 2004, the Ministry of Environment and Forests set out to create a sound and cohesive regulatory framework for the use of animals in experimentation. A consultative Group was set up, to facilitate interaction with a wide spectrum of stakeholders, both within and outside the government, including the scientific community, as also animal welfare activists. To clarify the underlying ethical principles, a professor of Philosophy was also associated in the exercise.

Recognizing the intrinsic worth of animals as sentient beings, the consultative Group enunciated the underlying ethical principles and identified objectives of scientific experiments which would justify the use of animals in the cause of scientific advancement and promoting human welfare while ensuring humane treatment of such animals.

Deliberations of the Group led to a consensus between hitherto divergent viewpoints. Six brainstorming sessions were held, wherein the principles and practices of utilization and care of animals in testing, research and training were finalized.

The report of the consultative Group was communicated to the Committee for the Purpose of Control and Supervision of Experimentation on Animals (CPCSEA) in terms of Section 17 (3) of the Prevention of Cruelty to Animals Act, 1960. The report was accepted by CPCSEA in to, in its meeting held on 20 December 2004, and formed the basis of the Breeding of and Experiments on Animals (control and supervision) Amendment rules, 2006.

The report has been well received and its impact may be noted from the fact of speedy settlement of pending court cases and absence of any new court case.

However, in order to clarify various aspects regarding the use of experimental animals, there was a perceived need for a comprehensive set of Guidelines that could be used as reference material by the Scientific establishment. Regarding ethical use of animals in scientific experiments. The present Guidelines respond to

that need.

### **1.3 Aim**

The aim of these Guidelines is to ensure humane and ethical treatment of animals, while facilitating legitimate scientific research involving experiments on animals.

## **2. Statutory provisions regarding scientific experiments on animals**

Persons engaged in conducting scientific experiments on animals must act in conformity with the provisions of the Prevention of Cruelty to Animals Act, 1960, and the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended.

These provisions are enforced by the independent Committee for the Purpose of Control and supervision of Experimentation on animals (CPCSEA), a statutory body under the Prevention of Cruelty to Animals Act, 1960, in the Ministry of Environment and Forests.

### **2.1 Other legal provisions regarding animal experimentation**

**Compliance is also required with CPCSEA Guidelines for Laboratory animal facility.**

## **3. Principles for scientific experiments on animals, relevant changes in Rules and guidelines for specific situations evolved by the Consultative Group accepted by CPCSEA**

### **3.1 Ethical principles adopted by CPCSEA for use of animals in scientific experiments**

#### ***Principle 1***

“Experiments on animals” (including experiments involving operations on animals) may be carried out for the purposes of advancement by new discovery of physiological knowledge; or of knowledge which is expected to be useful for saving or prolonging human life or alleviating suffering; or for significant gains in the wellbeing for the people of the country; or for combating any disease, whether of human being, animals or plants.

#### ***Principle 2***

Animals lowest on the phylogenetic scale (i.e., with the least degree of sentience), which may give scientifically valid results, should be used for any Experimental procedure. Experiments should be designed with the minimum number of animals to give statistically valid results at 95% level of confidence. Alternatives not involving animal testing should be given due and full consideration and sound justification provided, if alternative, when available, are not used.

#### ***Principle 3***

Proper use of animals in experiments and avoidance or minimization (when avoidance is not possible) of pain and suffering inflicted on experimental animals

should be an issue of priority for research personnel, and unless the contrary is scientifically established, investigators should proceed on the basis that procedures that cause pain or suffering in human beings will also cause similar pain or suffering in animals. All scientific procedures adopted with animals that may cause more than momentary or slight pain and/or suffering should be performed with appropriate sedation, analgesia or anesthesia.

#### ***Principle 4***

Persons engaged in animal experimentation have a moral responsibility for the welfare of the animals after their use in experiments. Investigators are responsible for the aftercare and/or rehabilitation of animals after experimentation, and may be permitted to euthanize

#### **Animals only in the following situations:**

- a. When the animal is paralyzed and is not able to perform its natural functions; it becomes incapable of independent locomotion; and/or can no longer perceive the environment in an intelligible manner.
- b. During the course of experimental procedure the animal has been left with a severe recurring pain and the animal exhibits obvious signs of long term extreme pain and suffering.
- c. In situations where non-termination of the animal experimented upon would be life threatening to human beings or other animals. Costs of aftercare and/or rehabilitation of animals post-experimentation are to be part of research costs and should be scaled per animal in positive correlation with the level of sentience of the animals.

#### ***Principle 5***

The living conditions of animals should be appropriate for their species and contribute

to their health and comfort. The housing, feeding, and care of all. Animals used for biomedical purposes must be directed by a veterinarian or other scientist in a relevant discipline who is trained and experienced in the proper care, handling, and use of the species being maintained or studied. In all circumstances, veterinary care shall be provided as necessary.

### **3.2.1 CPCSEA Guidelines on specific aspects regarding the use of animals in scientific experiments**

#### **3.2.1 Need to avoid/minimize pain and suffering inflicted on experimental animals**

Proper use of animals in experiments and avoidance or minimization (when

avoidance is not possible) of pain and suffering inflicted on experimental animals should be an issue of priority for research personnel, and unless the contrary is scientifically established, investigators should proceed on the basis that procedures that cause pain or suffering in human beings will also cause similar pain or suffering in animals. All scientific procedures adopted with animals that may cause more than momentary or slight pain and/or suffering should be performed with appropriate sedation, analgesia or anesthesia.

### **3.2.2 Proper care, handling and use of experimental animals**

The living conditions of animals should be appropriate for their species and contribute to their health and comfort. The housing, feeding, and care of all animals used for biomedical purposes must be directed by a veterinarian or other scientist in a relevant discipline who is trained and experienced in the proper care, handling, and use of the species being maintained or studied. In all circumstances, veterinary care shall be provided as necessary.

### **3.2.3 Agricultural production research**

The conventional regulatory framework may not be applied regarding use of experimental animals in agricultural production research. The practitioners would be responsible for self-regulation, based on operational guidelines to be framed by CPCSEA.

### **3.2.4 Powers of the Institutional Animals Ethics Committee (IAEC)**

IAEC is not empowered to clear research project proposals that involve experiments on animals higher on the phylogenetic scale than rodents.

### **3.2.5 Inspection of animal house facilities**

Both announced and unannounced visits by duly authorized personnel (only) to inspect the animal house facilities of institutes may be carried out. However, the personnel undertaking inspections may not order either temporary or permanent closure of the animal house facility, or suspension of registration of the animal facility, or impose any other penalty, but must report their finding to the CPCSEA for further action.

## **4. Procedures for approval of scientific experiments on animals**

**4.1** Definition of experiment In terms of Rule 2 (e) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, “Experiments” means any programme or project involving use of animal(s) for the acquisition of knowledge of a biological, physiological, ethological, physical or chemical nature; and includes the use of animals(s) in the production of reagents and products such as antigens and antibodies, routine diagnostics, testing activity

and establishment of transgenic stocks, for the purpose of saving or prolonging life or alleviating suffering, or significant gains in the well-being for people of the country or for combating any disease, whether of human beings, animals or plants.

#### **4.2 Experimental animals which are subject to regulation The relative sentience of different species of animals are as follows:**

Invertebrates (e.g., cockroaches) <Birds <Rodents <Canines/Felines <Bovine/Equines <Primates (e.g., Rhesus Macaque)<More evolved Primates (e.g., chimpanzee)

Anything higher than invertebrates in terms of level of sentience requires regulation. Thus rats, mice, birds, and farm animals are also subject to regulation.

#### **4.3 Function of CPCSEA**

All establishments engaged in research and education involving animals, are required to comply with the various guidelines, norms and stipulations set out by CPCSEA.

##### **The main functions of CPCSEA are:**

- Registration of establishments conducting animal experimentation or breeding of animals for this purpose.
- Selection and appointment of nominees in the Institutional Animal Ethics Committees of registered establishments.
- Approval of Animal House Facilities on the basis of reports of inspections conducted by CPCSEA.
- Permission for conducting experiments involving use of animals.
- Recommendation for import of animals for use in experiments.
- Action against establishments in case of violation of any legal norm/stipulation.

#### **4.4 Functions of the Institutional Animals Ethics Committee (IAEC) Every establishment constituted and operated in accordance with the procedures specified by CPCSEA is required to constitute an Institutional Animals Ethics Committee (IAEC).**

In terms of Rule 13 of the Breeding of and Experiments on Animals (Control and Supervision) Rules 1998, as amended, every IAEC shall include a biological scientist, two scientists from different biological disciplines, a veterinarian involved in the care of animals, the scientist in charge of the animal facility of the establishment concerned, a scientist from outside the institute, a non-scientific socially aware member and a representative or nominee of the CPCSEA. A specialist may be co-opted while reviewing special projects using hazardous agents such as radioactive substances and deadly micro organisms.

IAEC may approve experiments on animals, up to the phylogenetic level of

rodents (e.g. mice, rats and rabbits). However, IAEC is not empowered to clear research project proposals that involve experimentation on animals higher on the phylogenetic scale than rodents. In such cases, IAEC may consider proposals for scientific experiments involving animals above the sentience level of rodents, and forward its recommendations for consideration by CPCSEA.

#### **4.5 Registration of establishments**

In terms of Rule 3 of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, no establishment shall carry on the business of breeding of animals or trade of animals for the purpose of experiments unless it is registered, In terms of Rule 4 of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, no establishment shall perform any experiment on animals unless it is registered with CPCSEA. Every such establishment shall stop performing experiments on animals or breeding of animals for use in experiments, if registration is refused to it by CPCSEA.

#### **4.6 Approval of animal house facilities**

In terms of Rule 5 of the Breeding of and Experiments on Animals (Control and Supervision) Rules 1998, as amended, approval of animal house facilities by CPCSEA is required to be obtained, for premises where experiments are to be conducted.

#### **4.7 Use of animals in experiments**

In terms of Rule 9 (bb) of the Breeding of and Experiments on Animals (Control and Supervision) Rules 1998, as amended, animals lowest on the phylogenetic scale which may give scientifically valid results should be first considered for any experimental procedure, and the experiment should be designed with the minimum number of animals to give statistically valid results at 95% degree of confidence.

Replacement alternatives, not involving experiments on animals, should be given due and full consideration and sound justification must be provided, in case alternatives, though available, are not used.

#### **4.8 Procurement of animals**

In terms of Rule 10 of the Breeding of and Experiments on Animals (Control and Supervision) Rules 1998, as amended,

- i. an establishment shall acquire animals for experiments from registered breeders only;
- ii. in case of non-availability of animals from registered breeders, the animals may be procured from alternative legal sources;

- iii. in case the animal is procured from alternative legal sources, the same shall be procured after taking written permission from the authority competent under the law for the time being in force, to give such permission; and Replacement alternatives, not involving experiments on animals, should be given due and full consideration, and sound justification must be provided, in case alternatives, though available, are not used.

#### **4.9 Welfare of animals during use in experiments**

In terms of Rule 9 (cc) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, personnel using the experimental animals shall be responsible for the welfare of the animals during their use in experiments. The CPCSEA Guidelines for Laboratory Animal Facility also spell out the baseline procedures to be followed when using animals in the course of scientific experimentation, including quarantine and animal care.

#### **4.10. Aftercare and rehabilitation of animals after use in scientific experiments**

In terms of Rule 9 (cc) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, Investigators shall be responsible for the aftercare and rehabilitation of the animals after experimentation.

Costs of aftercare and rehabilitation of the animals after experimentation shall be made part of research costs and shall be scaled in positive correlation with the level of costs involved in such aftercare and rehabilitation of the animals.

Rehabilitation treatment of an animal after experimentation shall extend till the point the animal is able to resume a normal existence by providing a lump-sum amount as costs for rehabilitation and care of such animal to cover its entire statistical expected life span; and

The establishment undertaking experiments or duly licensed and authorized animal welfare organizations under the control of the Committee may, on payment of lump-sum amount, undertake rehabilitation of animals.

#### **4.11. Situations Where euthanasia of animals is permissible**

In terms of Rule 9 (cc) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, Investigators shall not euthanize animals except in situations as defined below:

- i. When the animal is paralyzed and is not able to perform its natural functions or it becomes incapable of independent locomotion or it can no longer perceive the environment in an intelligible manner; or
- ii. If during the course of experimental procedure the animal has been left with a

- recurring pain wherein the animal exhibits obvious signs of pain and suffering; or
- iii. Where the non-termination of the life of the experimental animal will be life threatening to human beings or other animals.

#### **4.11 Suspension/revocation of registration of an establishment by CPCSEA**

Rule 14 of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended, provides as follows:

- a. The Committee, if it is satisfied with the report of the Member- Secretary or the authorized officer of the Committee (made to it as a result of any inspection or information received or otherwise) that-
  - i. the rule made by it are not being complied with by an establishment or breeder; or
  - ii. a violation of the directions of the Committee has been committed by any establishment or breeder and the Committee's directions to rectify such violation have not been complied within the period so specified,

The Committee may, by order in writing, suspend or revoke the registration of the establishment or breeder and / or direct the closure of the animal house facility for such a period as may be specified in the order:

Provided that no order under this clause shall be made without giving the establishment or breeder nay opportunity of being heard in the matter.

Provided further that no order for suspension or revocation of registration, or closure of animal house facility shall be issued in a case of minor violation.

#### **Explanation :**

For the purpose of this clause, “minor violation” means an act of commission or omission which does not have direct bearing on the health of an animal; which may not lead to adverse health effect or pain or suffering or death of an animal.

#### **Note :**

All relevant Rules, Guidelines and minutes of the meetings of CPCSEA are available on the website of the Ministry of Environment and Forests: [www.envfor.nic.in](http://www.envfor.nic.in)

## APPENDIX

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Relevant changes in Rules based on recommendations of the Consultative Group Based on the ethical principals so enunciated, the Consultative Group recommended changes in the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended. These were further deliberated upon, and duly incorporated after the Report of the Consultative Group was accepted in toto by CPCSEA. The changes in the relevant Rules are summarized as follows:

**1. Change in Rule 2 (e) in the Breeding of and Experiments on Animals (Control and Supervision) Rules 1998, as amended**

The definition of experiments has been widened to include the term “significant gains in the well-being of the people of the country”, as additional criteria justifying the use of animals in experiment.

**2. Insertion of Rule 9 (bb) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended**

This addition provides that preference be according to the use of the minimum number of animals, lowest in the phylogenetic scale, which provide for statistically valid results at 95% degree of confidence. Use of replacement/alternatives is encouraged and sound justification is required in case alternatives to use of animals are not used, when available.

**3. Insertion of Rule 9 (cc) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended**

This provision makes the personnel using animals in experiments responsible for their welfare after use in experimentation, including aftercare and rehabilitation and also makes it mandatory for the costs of aftercare and rehabilitation to be made part of the research costs, as a lump sum provision based on the statistically expected life span of the animals. Rehabilitation may be undertaken by the establishment or by a duly licensed and authorized animal welfare organization.

**4. Insertion of Rule 9 (ff) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended**

This provides for the specific parameters, which are to be adopted when considering euthanasia of any animal used in scientific experiments. These include impairment of the natural functions of the animal including independent locomotion, when the animal faces recurring pain and suffering, and when the non-termination of the life of the experimental animal would be life-threatening of humans or other animals.

**5. Amendment of Rule 10 (b) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended**

This amendment allows the establishment to procure animals from any other legal source in case of non-availability with registered breeders, with suitable documentation to establish legality of the procurement process.

**6. Amendment of Rule 10 (e) of the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended.**

This provision allows the establishment to import genetically defined animals with the permission of DGFT, in case such animals are not available with registered breeders or other legal sources within the country. The condition of non-availability will not apply to genetically defined or laboratory bred rats and mice.

**7. Amendment of Rule 12 in the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended**

This Rule has been amended to allow establishments to undertake contract research as per the provisions of the PCA Act 1960 and the rules made there under.

**8. Amendment of Rule 14 in the Breeding of and Experiments on Animals (Control and Supervision) Rules, 1998, as amended**

The Rule has been amended to allow CPCSEA to take action against an establishment or breeder, based on the report of the Member Secretary or authorized officer, regarding any violations of the rules, or of directions of the Committee. In case of a major violation, CPCSEA may by written orders, suspend or revoke the registration of the establishment and / or order closure of the animal house facility, after giving the establishment or breeder an opportunity of being heard in the matter.

**DECLARATION ON THE USE OF ANIMAL/BIRDS**

Certified that the programme of the proposed synopsis of thesis/dissertation entitled  
“.....” of ..... (Name of the student), Admission No.....

- \*1. Use of animal is involved.
- \*2. Although the study relates the animals/birds it does not involve the handling/experimentation of the animals/birds because it is only survey/data collection/Epidemiological study (specify if any other type of study).
- \*3. The study is to be conducted only on the clinical cases.
- \*4. Use of animal/birds is involved and the approval of IAEC/CPCSEA is obtained/sought vide reference..... (Copy enclosed).
- \*5. The slaughter house material will be used for conducting the study.

(\* Strike off which ever is not applicable)

\_\_\_\_\_  
(Signature of Major Advisor)

\_\_\_\_\_  
(Signature of Head of the Deptt.)

## Application for Permission for Animal Experiments

### Form B (per rule 8(a)\* for Submission of Research Protocol(s))

Application to be submitted to the CPCSEA, New Delhi after approval of Institutional Animal Ethics Committee (IAEC)

#### **Section -I**

1.	*Name and address of establishment	
2.	*Registration number and date of registration.	
3.	Name, address and registration number of breeder from which animals acquired (or to be acquired) for experiments mentioned in parts B & C	
4.	Place where the animals are presently kept (or proposed to be kept).	
5.	Place where the experiment is to be performed (Please provide CPCSEA Reg. Number)	
6.	Date and Duration of experiment.	
7.	Type of research involved (Basic Research / Educational/ Regulatory/ Contract Research)	

Signature

Name and Designation of Investigator

Date: Place:

\*Applicable only for application to be submitted to CPCSEA

## **Section -II**

**Protocol form for research proposals to be submitted to the Institutional Animal Ethics Committee/ CPCSEA, for new experiments or extensions of ongoing experiments using animals.**

1. Project / Dissertation / Thesis Title:
2. Principal Investigator / Research Guide / Advisor:
  - a. Name
  - b. Designation
  - c. Dept / Div/ Lab
  - d. Telephone No.
  - e. E-mail Id
  - f. Experience in Lab animal experimentation
3. List of all individuals authorized to conduct procedures under this proposal.
  - a. Name
  - b. Designation
  - c. Department
  - d. Telephone No.
  - e. E-mail Id
  - f. Experience in Lab animal experimentation
4. Funding Source / Proposed Funding Source with complete address (Please attach the proof)
5. Duration of the animal experiment.
  - a. Date of initiation (Proposed)
  - b. Date of completion (Proposed)
6. Describe details of study plan to justify the use of animals (Enclose Annexure)
7. Animals required
  - a. Species and Strain
  - b. Age and Weight
  - c. Gender
  - d. Number to be used (Year-wise breakups and total figures needed to be given in tabular form)
  - e. Number of days each animal will be housed.

8. Rationale for animal usage
  - a. Why is animal usage necessary for these studies?
  - b. Whether similar study has been conducted on *in vitro* models? If yes, describe the leading points to justify the requirement of animal experiment.
  - c. Why are the particular species selected?
  - d. Why is the estimated number of animals essential?
  - e. Are similar experiments conducted in the past in your establishment?
  - f. If yes, justify why new experiment is required?
  - g. Have similar experiments been conducted by any other organization in same or other *in vivo* models? If yes, enclose the reference.
  
9. Describe the procedures in detail:
  - a. Describe all invasive and potentially stressful non-invasive procedures that animals will be subjected to in the course of the experiments)
  - b. Furnish details of injections schedule Substances: Doses :  
 Sites :  
 Volumes :
  - c. Blood withdrawal Details: Volumes :  
 Sites :
  - d. Radiation (dosage and schedules):
  - e. Nature of compound/Broad Classification of drug/NCE:
  
10. Does the protocol prohibit use of anesthetic or analgesic for the conduct of painful procedures? If yes, justify.
  
11. Will survival surgery be done?
 

If yes, the following to be described.

  - a. List and describe all surgical procedures (including methods of asepsis)
  - b. Names, qualifications and experience levels of personnels involved.
  - c. Describe post-operative care
  - d. Justify if major survival surgery is to be performed more than once on a single animal.
  
12. Describe post-experimentation procedures.
  - a. Scope for Reuse :
  - b. Rehabilitation (Name and Address, where the animals are proposed to be rehabilitated) :

c. Describe method of Euthanasia (If required in the protocol) :

d. Method of carcass disposal after euthanasia. :

13. Describe animal transportation methods if extra-institutional transport is envisaged.

14. Use of hazardous agents (use of recombinant DNA-based agents or potential human pathogens requires documented approval of the Institutional Biosafety Committee (IBC). For each category, the agents and the biosafety level required, appropriate therapeutic measures and the mode of disposal of contaminated food, animal wastes and carcasses must be identified).

If, your project involved use of any of the below mentioned agent, attach copy of the approval certificates of the respective agencies:

(a) Radionuclides (AERB)

(b) Microorganisms / Biological infectious Agents (IBSC)

(c) Recombinant DNA (RCGM)

(d) Any other Hazardous Chemical / Drugs

### **Investigator's declaration.**

1. I certify that the research proposal submitted is not unnecessarily duplicative of previously reported research.
2. I certify that, I am qualified and have experience in the experimentation on animals.
3. For procedures listed under item 10, I certify that I have reviewed the pertinent scientific literature and have found no valid alternative to any procedure described herein which may cause less pain or distress.
4. I will obtain approval from the IAEC/ CPCSEA before initiating any changes in this study.
5. I certify that performance of experiment will be initiated only upon review and approval of scientific intent by appropriate expert body (Institutional Scientific Advisory Committee / funding agency / other body).
6. I certify that I will submit appropriate certification of review and concurrence for studies mentioned in point 14.
7. I shall maintain all the records as per format (Form D) and submit to Institutional Animal Ethics Committee (IAEC).
8. I certify that, I will not initiate the study before approval from IAEC/ CPCSEA received in writing. Further, I certify that I will follow the recommendations of IAEC/ CPCSEA.
9. I certify that I will ensure the rehabilitation policies are adopted (wherever required).

Signature

Name of Investigator

Date:

## Certificate

This is to certify that the project proposal no.....entitled  
..... submitted by Dr./ Mr. / Ms. ....  
has been approved/recommended by the IAEC of.....(Organization) in its meeting  
dated..... and has been sanctioned.....(animals) under this proposal for a duration of  
next..... months.

<b>Authorized by</b>	<b>Name</b>	<b>Signature</b>	<b>Date</b>
Chairman:	.....	.....	.....
Member Secretary:	.....	.....	.....
Main Nominee of CPCSEA:	.....	.....	.....

(Kindly make sure that minutes of the meeting duly signed by all the participants are maintained by Office)

**Annexure-XII(A)**

**Record of animals acquired and experiments performed (to be maintained by the investigator)**

**Form D**

Date of entry	No. of animals acquired (Specify species, sex and age)	Name, address and registration. No. of the breeder from whom acquired with voucher/bill no.	Date and particulars of order of grant of permission by the committee.	Date/Period of experiment	Name and address of the person authorizing the experiment	Certification of the investigator authorizing the experiment that all conditions specified for such an experiment have been complied with (Signature)

## Personal Vitae Form to be submitted to the Dean, PGS

## GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY, LUDHIANA

Attach  
Photograph

1.	Name of the student (Block Letters) and residential address	
2.	Department	
3.	Father's Name, Occupation and Address (Block Letters) with annual income	
4.	If father is not alive, name and address of the Guardian (Mention the exact relationship)	
5.	Mother's Name, Occupation and postal address (In Block Letters) with annual income	
6.	Name of the local guardian, if any (to be approved by the parents in case of girls)	
7.	Permanent Home Address	
8.	Telephone/Mobile No.	
9.	Email ID	
10.	Aadhar Card No.	
11.	Category (under which admitted)	
12.	Date of Birth	
13.	Indian Student (from which state):  Status of the student (State whether direct candidate or nominated by any University (give name) or nominee of Govt. of India. Please mention sports quota if selected in the quota.	
14.	Name of the institute last attended with degree	
15.	Foreign students:  Nominee of the (country) and the programme under which sponsored/nominated (Give name of the country also)	
16.	Bank A/c No. with branch and IFSC code	
17.	Scholarship/Fellowship, if any	
18.	Qualified Exams (ICAR, ARS, NET, etc.)	

**Head**  
**Department of Veterinary Pathology**  
**(with rubber Stamp)**

## SEMESTER PROGRESS REPORT OF PG-STUDENTS

### GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY LUDHIANA

Semester \_\_\_\_\_ Year \_\_\_\_\_ Department \_\_\_\_\_

1. Name of Student \_\_\_\_\_ Admission No. \_\_\_\_\_

2. Date of advisory committee meeting \_\_\_\_\_

3. Total CR. Hrs. cleared and OCPA upto previous semester, and Cr. Hrs. for which registered in the current semester.

Course Work		Master's /Ph.D. Research (Cr. Hrs.)	
Cleared upto previous Sem. Cr. Hrs. OCPA	Registered in Current Sem.	Cleared upto Previous Sem.	Registered in Current Sem

4. Title of Thesis:

5. Brief resume of research work done:

a. Progress of research already made.

b. Research work done in current semester.

c. Any comments/changes/suggestions for improvements in research

Signature of the student

Major Advisor

Signature \_\_\_\_\_

Name \_\_\_\_\_

#### COMMITTEE MEMBERS

Name (Cap. Letters)

Signatures

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

\_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_\_

5. \_\_\_\_\_

\_\_\_\_\_

(Dean, PGS Nominee)

Head of the Department

(Signature with stamp)

**CERTIFICATE REGARDING NON RECEIPT OF FINANCIAL ASSISTANCE**

1. I \_\_\_\_\_ S/o / D/o \_\_\_\_\_ Admission No. \_\_\_\_\_ of M.V.Sc./Ph.D. programme in the department of \_\_\_\_\_ certify that I am not in receipt of financial assistance from any Govt./Private agency.
2. I am not on study leave.
3. I further add that in the event of award of any fellowship/assistance from any Govt./Private agency, I will inform the Dean, Postgraduate Studies, in writing immediately.
4. I also undertake to refund the whole amount of fellowship/stipend if the award is found at a later stage, to be in admissible.

Verified \_\_\_\_\_  
Class \_\_\_\_\_

Admn. No. \_\_\_\_\_

\_\_\_\_\_  
(Signature of the student)

Major Advisor

Department \_\_\_\_\_

Countersigned

Head of the Department

\*No part of the certificate may be struck off/altered/modified. Additional information may be given separately at the end of Certificate No. 4 above.

**Submission of Rough Draft to Dean, PGS****GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY  
LUDHIANA**

It is to certify that the draft of the thesis entitled, “\_\_\_\_\_” has been submitted by \_\_\_\_\_ Admission No. \_\_\_\_\_ for our comments and correction. We will return this within ten days from the date of receipt.

**Advisory committee**

<b>Sr. No.</b>	<b>Name &amp; Designation</b>	<b>Signature</b>	<b>Department</b>
1.	Major Advisor		
2.	Member		
3.	Member		
4.	Member		
5.	Dean PG's Nominee		

It is certified that the above mentioned student has completed the course/ research requirements for the award of M.V.Sc./Ph.D degree.

Major Advisor

Forwarded to the Dean, Postgraduate Studies, GADVASU, Ludhiana for necessary action.

Professor-cum-Head  
(With Rubber Stamp)

Memo No:  
Dated:

**Undertaking by the Postgraduate Student submitted with rough dissertation to the Dean PGS,  
GADVASU, Ludhiana**

**Department of \_\_\_\_\_  
GADVASU, LUDHIANA**

I \_\_\_\_\_, D/o \_\_\_\_\_ Admission No. \_\_\_\_\_ have done M.V.Sc. with thesis research problem entitled, “**Title**” in the Subject of Veterinary Pathology under supervision of **Dr. (Major Advisor), Designation**, Department of Veterinary Pathology, GURU ANGAD DEV VETERINARY & ANIMAL SCIENCES UNIVERSITY, Ludhiana and undertake that I will submit all the publications arising out of above said thesis through my major advisor and will be routed through the Head of the department after following the procedures and guidelines circulated vide DR/Dean PGS Memo No. 3329-2259 Dated 25.09.2013 . In Case I violate these guidelines, my advisor and Head of the department through DR, with a copy to Dean PGS, has full right to write to the Editor of the concerned journal/Scientific Conference to withdraw the publication or take any suitable action. In case the paper has been published after violating the guidelines, the University has every right to take any action against me.

Signature of the student

Signature of the Advisor

Verified by the Head of the department

Dean, PGS

Director of Research

**FORMAT FOR SUBMISSION OF PARTICULARS BY STUDENT FOR PRINTING ON DEGREE**

I, hereby give my particulars, as mentioned in my qualifying degree (Bachelor/Master's/Ph.D.) for printing on the Degree Certificate, Transcript of Academic Record, Migration Certificate, Merit/Gold Medal Certificate, if any, etc.

Paste recent coloured  
passport size photo  
here

Admission No. \_\_\_\_\_

Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Mother's Name \_\_\_\_\_

Permanent Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contact No. \_\_\_\_\_

Email \_\_\_\_\_

Final OCPA \_\_\_\_\_

Thesis Title \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Signature of the Candidate

\_\_\_\_\_  
Head of Department  
(with Seal)

No Due from concerned Dean

**REQUEST FOR PRELIMINARY ORAL (VIVA VOCE) EXAMINATION FOR  
MASTERS'/ Ph.D. STUDENT**

**GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCE UNIVERSITY  
LUDHIANA**

This is to certify that Miss. Laitankimi, L-2013-V-11-D has appeared in the written comprehensive examination of Major I & II (Veterinary Pathology) on 20/04/2015 and Minor (Veterinary Microbiology) on 6/04/2015. The result of latter has been notified as per Head Department of Veterinary Microbiology Memo No. VMC/15/5348-51 dated 15/04/2015. Miss. Laitankimi, L-2013-V-11-D fulfils the criteria for preliminary oral examination with the result of Satisfactory, both in Major & Minor.

Forwarded to the Dean, Post Graduate Studies, GADVASU, Ludhiana for arranging the preliminary Oral (VIVA VOCE) Examination.

Prof. cum Head  
Veterinary Pathology

**REQUEST FOR FINAL ORAL EXAMINATION FOR MASTER'S/Ph.D STUDENT**

This is to certify that Mr./Ms. \_\_\_\_\_ Admission No. \_\_\_\_\_, has completed all the course/research requirements for the award of Masters'/Ph.D. degree. A list of external examiners in respect of the student is recommended as under:-

1. Dr.
2. Dr.
3. Dr.
4. Dr.

The title of the thesis/dissertation is as under:-

“ \_\_\_\_\_ ”

Memo No.

Dated:

Forwarded to the Dean, Postgraduate Studies, GADVASU, Ludhiana for further necessary action.

Professor-cum-Head  
Department of \_\_\_\_\_

**REQUEST FOR FINAL ORAL (VIVA VOCE) EXAMINATION FOR M.V.Sc. STUDENT**

**GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSIT, LUDHIANA**

This is to certify that Dr. \_\_\_\_\_ Admission No. \_\_\_\_\_, Department of \_\_\_\_\_ has completed all the courses/research requirements according to her approved programme of work and submitted the draft of the thesis entitled “\_\_\_\_\_”.

Forwarded to the Dean, Postgraduate Studies, GADVASU, Ludhiana for proposing the name of the experts for arranging the final oral (Viva-voce) examination.

Professor-cum-Head  
Department of \_\_\_\_\_

Dean, PGS  
GADVASU, Ludhiana

**Submission of Final Thesis/Dissertation to Dean, Postgraduate Studies****GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY, LUDHIANA**

Name of the student: \_\_\_\_\_  
 Father's Name \_\_\_\_\_  
 Admission No. \_\_\_\_\_  
 Major field \_\_\_\_\_

The members of the Students' Advisory Committee, certify that I have read the thesis/dissertation and that suggestions made for improvement have been incorporated.

**Advisory committee**

1. \_\_\_\_\_ 2. \_\_\_\_\_  
 3. \_\_\_\_\_ 4. \_\_\_\_\_  
 5. \_\_\_\_\_

Signature of the Major Advisor \_\_\_\_\_ Dated \_\_\_\_\_

Forwarding thesis/dissertation \_\_\_\_\_ Dated \_\_\_\_\_  
 Signature of the Head of the Department)

Thesis/Dissertation fee paid \_\_\_\_\_  
 Amount \_\_\_\_\_

- Nothing is due
1. University Librarian \_\_\_\_\_
  2. Hostel/Mess \_\_\_\_\_
  3. P.U. Extension Library \_\_\_\_\_  
(If not a member, Major Advisor to certify)
  4. Concerned Dean (Book Bank) \_\_\_\_\_

This form in duplicate should be submitted along with two copies of M.V.Sc. and three copies for Ph.D thesis/dissertation (having loose binding) to the Head of the Department who will forward one copy of thesis form along with one/ two copies of thesis/ dissertation for Master's and Ph.D. student, respectively to Dean, Postgraduate Studies before the last date for submission of thesis.

Date of receipt in the office of Dean, PGS \_\_\_\_\_

Dean  
 Postgraduate Studies



**NO DUES CERTIFICATE (to be obtained from the University Library)**

**GURU ANGAD DEV VETERINATY AND ANIMAL SCIENCES UNIVERSITY  
LUDHIANA**

Date:

Name:

Registration No./ Designation:

We have checked our records and wish to inform that he/she has returned all the documents borrowed from the university Library. Nothing is due against him/her. He/She is not a member of MSR Library, PAU or has obtained No Dues Certificate from MSR Library, PAU.

Checked and prepared by \_\_\_\_\_

Dated:

Incharge  
Circulation Section for University  
Librarian

**GURU ANGAD DEV VETERINARY & ANIMAL SCIENCES UNIVERSITY, LUDHIANA**

***Certificate of Dissertation/ Thesis/ Project Report and Oral Examination for Masters'/Ph.D. Programme***

This is to certify that the thesis/ dissertation entitled “\_\_\_\_\_” submitted by Mr./Ms. \_\_\_\_\_, (Admn No \_\_\_\_\_) S/o Mr. \_\_\_\_\_ and Mrs. \_\_\_\_\_ to the Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana in partial fulfillment of the requirements of M.V.Sc./M.Sc./M.Tech./M.F..Sc./Ph.D. in the subject of \_\_\_\_\_ has been examined by us. His/her minor field is \_\_\_\_\_. The candidate was examined by the committee on \_\_\_\_\_.

1. The Dissertation/Thesis/Project Report has been found satisfactory (Yes/ No) \_\_\_\_\_
2. Performance of the candidate in oral examination has been found satisfactory (Yes/ No) \_\_\_\_\_
3. We recommend that the candidate should resubmit the Dissertation/thesis/project report. (Yes/ No) \_\_\_\_\_
4. We recommend that the candidate should reappear for Oral examination. (Yes/ No) \_\_\_\_\_
5. We recommend the award of degree to the candidate (Yes/ No) \_\_\_\_\_

**Advisory Committee**

**Signature**

1. Dr. \_\_\_\_\_  
(Major Advisor)

\_\_\_\_\_

(External Examiner)  
Designation and Address

2. Dr. \_\_\_\_\_  
Designation  
Department of \_\_\_\_\_

\_\_\_\_\_

3. Dr. \_\_\_\_\_  
Designation  
Department of \_\_\_\_\_

\_\_\_\_\_

4. Dr. \_\_\_\_\_  
Designation  
Department of \_\_\_\_\_

\_\_\_\_\_

5. Dr. \_\_\_\_\_  
Dean PGS Nominee

\_\_\_\_\_

Professor-cum-Head  
Department of \_\_\_\_\_

Certify that necessary changes/ corrections as suggested by the external examiner were considered by the advisory committee and the necessary changes/corrections have been incorporated in the thesis/dissertation.

Major Advisor

Forwarded (in duplicate) by the Head of Department of \_\_\_\_\_ to the Dean, Postgraduate Studies, GADVASU.

No.  
Dated:

Signature of Head of the Deptt.  
with Rubber stamp

Forwarded by the Dean, Postgraduate Studies, GADVASU, to the Registrar, GADVASU for favour of necessary action.

No.  
Dated:

\_\_\_\_\_  
Signature of Dean, PGS

Registrar  
GADVASU, Ludhiana.

CONFIDENTIAL

ORAL EXAMINATION REPORT OF THE NOMINEE OF THE DEAN, PGS  
GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY

1. Name and admission : \_\_\_\_\_  
number of the student : \_\_\_\_\_
2. Department : \_\_\_\_\_
3. Place, date and time of : \_\_\_\_\_  
final oral examination
4. Name and Address of the : \_\_\_\_\_  
External Examiner
5. The name(s) of the members : Major Advisor  
of the Advisory Committee Member  
Member  
Dean, PGS Nominee
6. The name(s) of the members of :  
the Advisory Committee who could  
not attend the examination,  
giving reasons.
7. Did the Head of the Department attend : \_\_\_\_\_
8. General remarks about:  
(a) Conduct of Oral Examination : \_\_\_\_\_
- (b) Student performance : \_\_\_\_\_

Memo No. \_\_\_\_\_  
Date: \_\_\_\_\_

Signature with Designation  
Dr. \_\_\_\_\_ (Dean, PGS Nominee)  
Designation  
Department of \_\_\_\_\_  
GADVASU, Ludhiana

**SUBMISSION OF RESULT**

Department of \_\_\_\_\_ Guru Angad

Dev Veterinary & Animal Sciences University, Ludhiana

Semester \_\_\_\_\_

Course No. \_\_\_\_\_

Course file \_\_\_\_\_

Credit Hrs: \_\_\_\_\_

Certified that the:

1. Credit points have been awarded correctly as per Rule 6.3 of Chapter-II (Academic Rules for Postgraduate Programmes) of the Academic and Hostel Rules 2021-22 by taking care that no student, who failed in theory or practical has been awarded credit point and all such students have been awarded 'F' grade.
2. Totaling of marks has been thoroughly, scrutinized before awarding the credit points.
3. Result sheet have been signed (full signatures) by all the teachers offering the course.

.....

Signature(s) of the teacher(s) offering the course.

Department of \_\_\_\_\_Guru Angad Dev Veterinary & Animal Sciences  
University, Ludhiana

List of students eligible for **SUPPLEMENTARY EXAMINATION**

Semester \_\_\_\_\_ Year \_\_\_\_\_

Course No. \_\_\_\_\_ Course Title \_\_\_\_\_

Credit Hrs : \_\_\_\_\_

This is to certified that the following students:

1. Appeared in the End-of-Term Examination, but failed in the Theory Examination by securing 20% or more marks In the End-of-Term Examination.
2. Their attendance requirements in theory and practical have been duly met with.
3. They have secured pass marks in the practicals.

S.No.	Name of the student	Admission No.

.....  
Signature(s) of the Teacher(s) offering the course

**APPLICATION BY POSTGRADUATE STUDENTS FOR SUPPLEMENTARY EXAMINATION ONLY IN THE END OF SEMESTER EXAMINATION RULE 6.2 OF CHAPTER-II (ACADEMIC RULES FOR POSTGRADUATE PROGRAMMES) OF THE ACADEMIC AND HOSTEL RULES 2021-22**

1. Name of the student
2. Admission No.
3. Course(s) in which supple exam is sought:

S. No.	Course No.	Credit Hrs.	Title of the Course

4. Reasons for Supplementary Examination:

(Signature of the Student)

It is certified that:

- i) The above mentioned student meets all attendance requirements.
- ii) The student has got pass marks in the practical(s).
- iii) The student has obtained atleast 20% marks in the end of the semester examination.

Name/Signature of the Teacher concerned

Recommendations of Major Advisor

Recommendations of Head of Department

No.

Dated:

The Dean, PGS

Note:

1. Supplementary examination will not be allowed in courses more than prescribed courses from time to time in semester rules. Student must have obtained 'F' Grade in such courses.
2. Application should be made within three working days from the date of display of the list of the eligible students.
3. The fees of Rs. 210/- per course (subject to change from time to time) be paid in the respective college and receipt enclosed.
4. The supplementary examination(s) shall be held as per the calender.

**NO DUE CERTIFICATE FOR REFUND OF COLLEGE SECURITY**

**COLLEGE OF VETERINARY SCIENCE  
GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY  
LUDHIANA**

1. Name of the student - .....
2. Admission No. - .....
3. Date of leaving the college - .....
4. Programme complete/incomplete - .....
5. Advisor - .....
6. Dean, PGS - .....
7. Boarder / Non-boarder - .....
8. Hostel Warden (Boys/Girls)  
(Where student was residing) - .....
  
9. D.S.W, or his representative - .....
10. Welfare officer, GADVASU - .....
  
11. Laboratory in-charge (Clinic) - .....
12. Head of Department (in case of  
Postgraduate students) - .....
  
13. Head, TVCC - .....
14. PAU, Library - .....

- 15. GADVASU, Library - .....
- 16. Assistant Director, Physical Education - .....
- 17. Officer in-charge, R & V NCC - .....
- 18. Store Keeper (Department) - .....
- 19. Cashier (Dean's Office) - .....
- 20. Identity Card returned - .....
- 21. Senior Assistant (Fee) - .....
- 22. Superintendent (COVS) - .....

Home Address .....

.....

.....

Mobile No. - .....

Bank A/c No. : - .....

IFSC Code: - .....

Name of the Bank & Branch : -.....

Note: The correctness of the Bank account, IFSC code, Bank Name & Branch is the responsibility of the student.

Encl:- Copy of Bank Account No. (Pass Book of SBI/BOB)

.....  
Signature of the applicant

**Time line for thesis submission**

<b>Time for</b>	<b>M.V.Sc./M.Sc./M.F.Sc./M.Tech.</b>	<b>Ph.D.</b>
Submission of synopsis	Ist Semester	Ist Semester
Comprehensive examination	After completion of 2 <sup>nd</sup> semester with 75% course coverage of major	After completion of 2 <sup>nd</sup> semester with 75% course coverage of minor and major and major 2
Comprehensive viva	--	Request for conduct of oral examination to be sent by HoD after declaration of result as satisfactory
Thesis seminar	Say if, 9 <sup>th</sup> July – Seminar 19 <sup>th</sup> July – Check of rough thesis submitted 1 <sup>st</sup> August – Cut off	9 <sup>th</sup> July – Seminar 19 <sup>th</sup> July – Check of rough thesis submitted 1 <sup>st</sup> August – Cut off
Publication	Rule 6.7.5 of the Chapter-II (Academic Rules for Postgraduate Programmes) of the Academic and Hostel Rules 2021-22.	Rule 6.7.5 of the Chapter-II (Academic Rules for Postgraduate Programmes) of the Academic and Hostel Rules 2021-22.

### Enactment of Anti-plagiarism Policy at GADVASU

The Anti-plagiarism policy at GADVASU takes in its ambit the adoption of Ouriginal (previously URKUND) anti-plagiarism software, work structure, percentage of similarity index acceptable, penalties for different levels of plagiarism detected as per UGC guidelines and constitution of Institutional Academic Integrity Panel for taking decisions about cases of plagiarism detected, if any. For effective use of Plagiarism Detection Software, the following Anti-Plagiarism Policy has been approved by the Academic Council:

#### 1. **Hierarchical Structure:**

- A. **Administrator:** The University Librarian (Coordinator for Plagiarism Detection Software) will have the administrative control of the operation(s) of the software at the University level. He will register user(s) on the URKUND software. The particular(s) required for registration of faculty members on the software (i. e. name, e-mail, mobile number, etc.) have been sought by him through H.O.D.s to get them registered with the URKUND software. More than 125 faculty members have been already registered for using this software. Any subsequent addition of faculty will be forwarded by H.O.D. to the University Librarian, for inclusion as registered user.
  - B. **Submitter and Receiver:** Submitter can only submit and view the document (synopsis/thesis, etc.). Submitter (he/she) cannot view the “Similarity Index Report” generated by the software. However, the Receiver can only view the generated report and get access to the generated document. The Submitter and Receiver can also be the same person. In this case, it will be the faculty member and/or the Major Advisor even for his/her student doing Master/Ph.D. programme. Each faculty member will thus be registered as both Submitter and Receiver using his/her registered email which has been provided and got registered with Ouriginal (URKUND) software for both type of users. Using respective “User Account”, Advisor(s) will be able to submit thesis/ dissertation, etc. of concerned students to the software for a plagiarism check and further, he/she will also be able to access the “Similarity Check Report” for the same generated by the software.
2. **Activation of User Account:** The users registered by the University Librarian on Ouriginal (URKUND) software will receive two separate e-mails from noreply@urkund.se with following text matter:
- a. Email 1: “Welcome to URKUND!” – for activation of Receiver account
  - b. E-mail 2: “Account creation invitation” – for activation of Submitter account.

The registered user can follow the outlined steps provided in the email for activation of both the accounts (Receiver and Submitter). The guidelines to facilitate the use of URKUND software will be provided by the University Library giving all the details in the instructional material for activation of user account, procedure of submission of document(s) and how to access the report generated by software to Heads of the Department(s) for further circulation amongst faculty and/or Major Advisor/students.

**The bibliography, definitions, operational definition and formulae shall be excluded from the plagiarism check. Text in quotes and less than 1% similar text shall also be exempted.**

This policy has been enacted on the synopsis proposal(s)/theses/dissertations /research articles, etc. with immediate effect from 15.07.2021. It is envisioned that the similarity of text of PG research shall be checked at two stages, i. e. at synopsis stage and at the time of submission of final thesis.

Before submission of the final draft of synopsis, thesis/ dissertation, etc. it shall be run through “Plagiarism Detection Software – Ouriginal (URKUND)”. Any synopsis/ thesis/dissertation having similarity of more than the prescribed percentage shall be reviewed and revised by the researcher and the concerned advisor till it reaches the permissible percentage. The first page of the hardcopy of the report generated by software highlighting % similarity, if any be duly signed by the student, the concerned Major Advisor and the Head of the Department, and CD containing complete report in PDF format and a certificate issued by HOD regarding the report be submitted to the O/o the Dean, Postgraduate Studies along with the final synopsis, thesis/dissertation, etc.

For the research article/paper, the first page of the hardcopy of the report generated by software highlighting % similarity, if any and a certificate in this regard duly signed by the student, the concerned Major Advisor and the Head of the Department along with the hardcopy of the proforma for Submission of Research Article for Publication be submitted to the O/o the Director of Research.

As per notification of the University Grants Commission (UGC) published in the Gazette of India dated 23rd July 2018 regarding promotion of integrity and prevention of plagiarism in higher educational institutions the following provisions are given for different levels of plagiarism (page 11-12):

## 12. Penalties

Penalties in the cases of plagiarism shall be imposed on students pursuing studies at the level of Masters and Research programs and on researcher, faculty & staff of the Higher Educational Institutions (HEI) only after academic misconduct on the part of the individual has been established without doubt, when all avenues of appeal have been exhausted and individual in question has been provided enough opportunity to defend himself or herself in a fair or transparent manner.

### 12.1 Penalties in case of plagiarism in submission of thesis and dissertations:

Institutional Academic Integrity Panel (IAIP) shall impose penalty considering the severity of the Plagiarism.

- i. **Level 0: Similarities up to 10%** - Minor Similarities, no penalty.
- ii. **Level 1: Similarities above 10% to 40%** - Such student shall be asked to submit a revised script within a stipulated time period not exceeding 6 months.
- iii. **Level 2: Similarities above 40% to 60%** - Such student shall be debarred from submitting a revised script for a period of one year.
- iv. **Level 3: Similarities above 60%** - Such student registration for that programme shall be cancelled.

**Note 1: Penalty on repeated plagiarism** - Such student shall be punished for the plagiarism of one level higher than the previous level committed by him/her. In case where plagiarism of highest level is committed then the punishment for the same shall be operative.

**Note 2: Penalty in case where the degree/credit has already been obtained** - If plagiarism is proved on a date later than the date of award of degree or credit as the case may be then his/her degree or credit shall be put in abeyance for a period recommended by the IAIP and approved by the Head of the Institution.

### 12.2 Penalties in case of plagiarism in academic and research publications

- I. **Level 0: Similarities up to 10%** - Minor similarities, no penalty.
- II. **Level 1: Similarities above 10% to 40%**
  - i) Shall be asked to withdraw manuscript.

**III. Level 2: Similarities above 40% to 60%**

- i) Shall be asked to withdraw manuscript.
- ii) Shall be denied a right to one annual increment.
- iii) Shall not be allowed to be a supervisor to any new Master's, M.Phil., Ph.D. Student/scholar for a period of two years.

**IV. Level 3: Similarities above 60%**

- i) Shall be asked to withdraw manuscript.
- ii) Shall be denied a right to two successive annual increments.
- iii) Shall not be allowed to be a supervisor to any new Master's, M.Phil., Ph.D. Student/scholar for a period of three years.

**Note 1: Penalty on repeated plagiarism** - Shall be asked to withdraw manuscript and shall be punished for the plagiarism of one level higher than the lower level committed by him/her. In case where plagiarism of highest level is committed then the punishment for the same shall be operative. In case level 3 offence is repeated then the disciplinary action including suspension/termination as per service rules shall be taken by the HEI.

**Note 2: Penalty in case where the benefit or credit has already been obtained** - If plagiarism is proved on a date later than the date of benefit or credit obtained as the case may be then his/her benefit or credit shall be put in abeyance for a period recommended by IAIP and approved by the Head of the Institution.

**Note 3:** HEIs shall create a mechanism so as to ensure that each of the paper publication/thesis/dissertation by the student, faculty, researcher or staff of the HEI is checked for plagiarism at the time of forwarding/submission.

**Note 4:** If there is any complaint of plagiarism against the Head of an HEI, a suitable action, in line with these regulations, shall be taken by the Controlling Authority of the HEI.

**Note 5:** If there is any complaint of plagiarism against the Head of Department/Authorities at the institutional level, a suitable action, in line with these regulations, shall be recommended by the IAIP and approved by the Competent Authority.

**Note 6:** If there is any complaint of plagiarism against any member of Departmental Academic Integrity Panel (DAIP) or IAIP, then such member shall excuse himself / herself from the meeting(s) where his/her case is being discussed/investigated.

The above guidelines as per clause 12, 12.1, 12.2 provided in the official Gazette of India by the UGC shall be applicable at GADVASU in mutatis mutandis. In view of these guidelines the permissible limit of the Similarity Index be kept below 10%, as later on the theses will be uploaded on the Krishikosh portal, which is linked to the National Digital Library of India (sponsored by MHRD).

Further, an '**Institutional Academic Integrity Panel (IAIP)**' of Guru Angad Dev Veterinary and Animal Sciences University has been constituted consisting of followings to handle the matters of plagiarism, if any:

- |                                      |          |
|--------------------------------------|----------|
| 1. The Director of Research          | Chairman |
| 2. The Dean, Postgraduate Studies    | Member   |
| 3. The Dean of the College concerned | Member   |
| 4. Head of the Department concerned  | Member   |

**Certificate regarding Originality of Research Work  
(For Synopsis/Thesis/Dissertation for Masters' & Doctorate Programmes)**

Name of Research Scholar: \_\_\_\_\_  
Registration No.: \_\_\_\_\_  
Name of Research Supervisor/ Major Advisor: \_\_\_\_\_  
Name of Research Supervisor/ Minor Advisor: \_\_\_\_\_  
Faculty & Subject: \_\_\_\_\_  
Title of the Synopsis/Thesis/Dissertation: \_\_\_\_\_  
Designation & address of Major & Minor Advisor: \_\_\_\_\_

We hereby declare that, the above mentioned proposal for research (synopsis)/ research work submitted by Dr./Mr./Ms. \_\_\_\_\_ Admission/Registration No. \_\_\_\_\_ is an outcome of his/her own intellectual efforts/ research work, based on his/her personal study and/or research. He/she has duly acknowledged all material and sources used in its preparation, whether they be books, articles, reports, lecture notes, and any other kind of document(s), electronic or personal communication(s). The similarity index for the entire synopsis/thesis/dissertation is  $\leq 10\%$  and meeting all the norms of Anti-plagiarism Policy laid down by the University. The synopsis/thesis/dissertation is free from any plagiarism and has not been submitted elsewhere for publication.

Justification for similarity index .....

.....

The plagiarism check report of the synopsis/thesis/dissertation generated by students/Major Advisor is attached herewith.

***Declaration by Research Scholar/ Major Advisor/ Minor Advisor***

Further we declare that, the contents of this synopsis/thesis/dissertation submitted to the Department of \_\_\_\_\_ of the University for award of Masters'/Doctorate Degree are original findings & research work.

- i) If any plagiarism is found in this synopsis/thesis/dissertation, we shall be solely responsible for it and the University shall have sole right to initiate appropriate action in view of academic integrity rules.
- ii) This work has not been submitted for the award of any other Degree / Diploma in any other university/ Institutes or anywhere for publication.

iii) We shall be responsible for any legal dispute / case(s) for violation of any provisions of the Anti-plagiarism Policy / Copyright Act / Piracy / Cyber / IPR etc.

(.....)

Signature of the Research Scholar

(.....)

Signature of the Major Advisor

(.....)

Signature of the Minor Advisor (if any)

Countersigned by the Head

Department of .....

College of .....

Date:

Place:

**(Note:** The University Librarian will provide technical assistance for optimum use of Anti-plagiarism software)

**Certificate regarding Originality of Research Work  
(For Research Articles/ Project Proposals/ Reports etc.)**

Name(s) of Author(s)/ PI and Co-PIs in sequence they appear in article/project proposal/report along with name of Department/College (please also mention Registration No. in case of student):

\_\_\_\_\_

Name and Designation of first author/PI: \_\_\_\_\_

Name and Designation of corresponding author: \_\_\_\_\_

Name of Major Advisor (if article is based on thesis/dissertation work): \_\_\_\_\_

Title of the article/ project proposal/ project report: \_\_\_\_\_

I / We hereby declare that the research paper/project proposal/project report submitted by me/us is an outcome of my/our independent and original work. I/we have duly acknowledged all the sources from which the ideas and extracts have been taken. The similarity index for the entire research article/project proposal/report is  $\leq 10\%$  and meeting all the norms of Anti-plagiarism Policy laid down by the University. The research article/project is free from any plagiarism and has not been submitted elsewhere for publication/funding.

Justification for similarity index .....

.....

The plagiarism check report of the research article/project proposal/ report generated by Dr/Mr/Ms..... is attached herewith.

***Declaration by First and Corresponding Author/ Advisor of the Student***

Further we declare that, the contents of this research article/ project proposal/ report circulated to the Departmental Research Committee of the Department of

..... via e-mail with CC to the Director of Research dated ..... for seeking approval for submission of research article/ project proposal/ report are original findings & research work.

- iv) If any plagiarism is found in this article/ project proposal/ report, I / we shall be solely responsible for it and the University shall have sole right to initiate appropriate action in view of academic integrity rules.
- v) This work has not been submitted for publication/funding to any other journal/funding agency.
- vi) I / We shall be responsible for any legal dispute / case(s) for violation of any provisions of the Anti-plagiarism Policy / Copyright Act / Piracy / Cyber / IPR etc.

(.....)

Signature of the First Author/PI

(.....)

Signature of the Corresponding Author

(.....)

Signature of the Author who generated plagiarism check report

Countersigned by Head

Department of .....

College of .....

Date:

Place:

**(Note:** The University Librarian will provide technical assistance for optimum use of Anti-plagiarism software)

## Checklist

### Guru Angad Dev Veterinary and Animal Sciences University

Name of Student:		Reg No:		Department:		0
College:		School of:		MVSc:	PhD:	0 MSc:
Father Name:		Mother Name:		email address:		
Male:	Female:	Deptt phone:		Mobile no:		
Res Address:						
category:	General:	Other category:	ICAR Sponsored:	ForeignNational:	Paid Seat:	
Major Advisor:		Major Subject:		Minor Subject:		0
Adv Committee:		Adv Comm2:		Adv comm3:		
Adv Comm4:		Adv Comm5:		AllotMajorAdvso:		0
Yellow form: Y		Date submitted:		Date Approved:		Synopsis date:
Synopsis approv:			revised Synopsi:			
Approv Objectiv:						
Appov IAEC:		Approv CPSCEA:		date IAEC sub:		
Date CPSCEA sub:		Collaborat dept:		Defciency cours:		
Progress rep:		Prog Rep2:		Prog Rep3:		Prog Rep4:
Prog Rep5:		Prog Rep6:		Prog Rep7:		Prog Rep8:
Prog Rep5:		Prog Rep6:		Prog Rep7:		Sem Drop:
Credit seminar:		Credit seminar1:		credit Semnar2:		
comprhen MVSc:		Comprehen major:		Compreh major2:		Comprehen Minor:
Comprhen result:		Credit Major:		Credit Minor:		Credit Supporti:
Master Res:		master Res2:		Master Res3:		Master Res4:
PhD Res:	PhD Res2:	PhD Res3:	PhD Res4:	PhD Res5:	PhD Res6:	
PhD Res7:	PhD Res8:	PhD Res9:				
Thesis seminar:		Rough Thesis sub:		Panel experts:		
consent expert:		Final Thesis su:		Thesis subm fee:		CD in Library:
NOC Library:		NOC PAU:	Final viva:	Viva Expert:	Report of Thesi:	
Abstract Thesis:						
Papers Submit:		Paper M:	paper m2:	Paper PHD1:	paper PhD Accep:	
NAAS Rating1:		NAAS Rating2:	PDC:	Transcript issu:	Date of Notific:	
Univ Fellowship:		Other Fellowshi:		Medal:		
Other Honor:		Gold medal:		Prize:		
OCPA1:		OCPA2:	OCPA3:	OCPA4:		
OCPA5:		OCPA6:	OCPA7:	OCPA8:	Final OCPA:	