

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



# University of Mysore

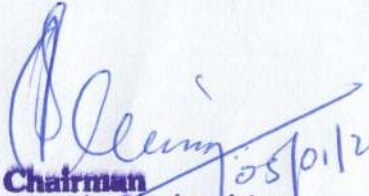
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## Ph.D in BIOSCIENCE



UNIVERSITY OF MYSORE  
Department of Studies in Bioscience  
Manasagangotri, Mysuru-570 006

Regulations and Syllabus  
Ph.D. in BIOSCIENCE

  
**Chairman** 05/01/2021  
**Dept. of Studies in Biochemistry**  
**University of Mysore**  
**Manasagangotri, MYSORE-570 006**  
**INDIA**

## **UNIVERSITY OF MYSORE GUIDELINES AND REGULATIONS LEADING TO PH.D. IN BIOSCIENCE**

### **Programme Details**

Name of the Department	: Department of Studies in Bioscience
Subject	: Bioscience
Faculty	: Science and Technology
Name of the Programme	: Ph.D.

### **PH.D. IN BIO SCIENCE**

#### **LEARNING OBJECTIVE:**

- To develop substantive knowledge in the area of biological science
- Develop methodological and experimental skills required to evaluate and conduct research
- Develop and design to conduct original research work
- Develop the ability to communicate the results of their research findings
- Develop the ability to teach college and university level courses

#### **PROGRAMME OUTCOME**

The registered candidates pursue their Ph.D., thesis work for a period of two to five years under the supervision of research guide and the candidate prepares the thesis for award of Ph.D., degree with published work. After successful defending candidate will qualify for the award of Ph.D., degree in Bioscience.

#### **COURSE-I: ADVANCED RESEARCH METHODOLOGY COURSE OUTCOME**

- To familiarize the students with regards to the problem identification, research methodology, research design and analysis of the data
- To train the student in SPSS (Statistical Package for Social Science)

#### **PEDAGOGY**

- Classroom teaching
- Seminar
- Power-point presentations

#### **COURSE CONTENT**

1. **Introduction:** Introduction to basic and applied research, Essential steps in research.

2. **Literature Collection:** Need for review of literature, review process and bibliography, research reading, consulting source material, working bibliography, index cards and reference cards.
3. **Literature citation:** Introduction , different system of citing references, Name-Year-System-Citation in the text, authors name mentioned in the sentence more than one source/more than one work of the same author in the same year and in different years to cite a work cited in another work, Name-Year-System-list of reference section. Alphabetical and chronological arrangements of entries in the reference section.
4. **Research Paper Report:** Introduction, component of research report, Authors address; abstract/summary/keywords; introduction, Materials ad methods, results, discussion, acknowledgements, references. Modification depending on specific scientific journals.
5. **Research report-tables:** Introduction, need for tables; placement of table, format of table; Numbering of tables, title of the table, boxes and columns, box headings, units of measurements.
6. **Research paper report-Figures:** Introduction type of figure to be used when to use the figure; placement of figure, numbering of figures, caption of figure.
7. **Research paper report-formatting and typing:** Introduction, paper margins, paragraphs, paring, alignment, fonts , Italics.



8. **Thesis Writing:** Format of thesis, title page, certificate page, declaration page, Acknowledgement page, table of contents, preface, list of tables, list of figure, list of abbreviations and symbols, list of chapter, introduction, materials and methods, results, Discussion, summary, references.
9. **Patent and intellectual property rights:** Introduction, protection of IPR in India, Terminology associated with IPR, other issues relating to IPR.
10. **Laboratory Safety:** Introduction, Biohazardous agents, risk groups, Bio safety levels, parts of exposure, safety measures, safety in genetic engineering, safety of laboratory animals.

## **COURSE-II: REVIEW OF LITERATURE**

### **COURSE OUTCOME**

After the completion of this course the students will be able to:

- Understand the need for literature review
- Successfully do review process
- Compile working bibliography.



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