

SCHOOL OF LIFE SCIENCES

DEVI AHILYA VISHWAVIDYALAYA, INDORE

Minutes of the meeting organized with regards to the University Grants Commission notification No. D.O.No.F.1-1/2018 (Journal/CARE) Dec 2019

As per the University Grants Commission notification No. D.O.No.F.1-1/2018 (Journal/CARE) Dec 2019, an additional paper on Research and Publication Ethics for 2 credits needs to be added in the revised syllabus for the Ph.D. course work in Life Sciences.

Hence, with reference to the above mentioned UGC notification, the University, as per the letter no. Acad./course/2020/413 dated.22/1/2021, has instructed the UTDs to approve the required changes in the PhD Coursework Syllabus.

A Departmental Committee meeting for PhD Coursework in Life Sciences was conducted on 20/02/2021 at 3:30 PM in HoD's Office, School of Life Sciences, D.A.V.V., Indore.

The following members were present in the meeting

1. Prof. Anjana Jajoo (Dean, Faculty of Life Sciences)
2. Prof. Krishnan Hajela
3. Prof. Anand Kar
4. Dr. Tushar Banerjee

The members reviewed the UGC notification No. D.O.No.F.1-1/2018 (Journal/CARE) Dec 2019 and suggested the following changes

1. In accordance with the letter, the course titled "Research and Publication Ethics" for 2 credits has to be added in the ongoing syllabus of the Ph.D. Coursework in Life Sciences (Jan 2021 – Jun 2021). Henceforth, the total credits of the course will change from 16 credits to 18 credits.
2. After adding the above "Research and Publication Ethics" paper in the syllabus, the order of the courses in Ph.D. Coursework in Life Sciences will be as under:

| COURSE | TITLE | CREDITS |
|------------|---------------------------------------|---------|
| COURSE-I | Research Methodology | 4 |
| COURSE-II | Research Methodology in Life Sciences | 3 |
| COURSE-III | Computer Application | 3 |
| COURSE-IV | Research and Publication Ethics | 2 |
| COURSE-V | Review of Literature | 3 |
| | Comprehensive Viva | 3 |
| | Total Credits | 18 |

3. Accordingly required modifications has been incorporated in the syllabus of Research Methodology (Course I) to avoid the overlapping of topics. The modified course I syllabus is as under:




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| COURSE - I- RESEARCH METHODOLOGY | | 4 Credits |
|--|--|------------------|
| Objective: To gain knowledge in general about research and its methodologies and common tools and techniques adopted for pursuing research. | | |
| Unit I Introduction to research | Introduction to Research, Formal Science and Empirical Science, Scientific Research, Research Types, Research Design Process, Errors in Research. Formulation of research problem. | |
| Unit II Hypothesis and data collection | Hypothesis, hypothesis generation, null and alternate hypothesis, Hypothesis testing, sample size and Power calculation. Data types: Scalar and Categorical, Data collection: Primary and secondary data, Sampling | |
| Unit III Data Analysis | Measures of Central tendency and Dispersion, Parametric and Non-parametric tests, Confidence interval, Errors, Levels of significance, Regression and Correlation coefficient. Probability distribution- Normal, Binomial and Poisson distribution. | |
| Unit IV Statistical Techniques | Independent T Test, Mann Whitney Test, Paired T Test, Wilcoxon Signed rank test, One-way ANOVA, Kruskal-Wallis test, Two-way ANOVA, Multivariate Analysis, Chi-squared test, Odds and Relative Risk. | |
| Unit V Research Paper Writing | Introduction to publications. Research Journals (types), Peer review process, Paper submission (Offline and online submission). Research paper writing steps and process. IMRAD system, Paper presentations, Report writing (Including pre-writing considerations and Thesis writing). | |

4. The following recommendations of the members are hereby approved to be incorporated in the existing Ordinance 11 for Ph.D. Course work.

| Provisions in current Ordinance | | Provision after amendment in the Ordinance | | Justification |
|---|--------|---|--------|---------------|
| The Ph.D. Course work shall contain following courses | | The Ph.D. Course work shall contain following courses | | |
| Course | Credit | Course | Credit | |
| Research Methodology | 4 | Research Methodology | 4 | |
| Review of Published Research in the relevant field | 3 | Review of Published Research in the relevant field | 3 | |
| Computer Application | 3 | Computer Application | 3 | |
| Advance Course in relevant field | 3 | Advance Course in relevant field | 3 | |
| Comprehensive Viva-Voce | 3 | Research and Publication Ethics | 2 | |
| | | Comprehensive Viva-Voce | 3 | |


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