

## IIS (DEEMED TO BE UNIVERSITY)

### M.Phil/Ph.D Programme – Psychology

#### Paper I – Research Methodology

#### PSY -141

Course credit : 04

Course duration : 60 hrs

Max. Marks :

CA = 50

SEE = 50

Total = 100

Duration of Exam :

CA = 1 hour

SEE = 3 hrs

Units	Content	Total No. of Teaching hours
Unit I	<b>Introduction to Research in Psychology</b> <u>Traditions of Psychological Research</u> : Positivism, Interpretation, critical theory, psychodynamics. <u>Paradigms in Psychological Research</u> : Macro theory and microtheory, conflict paradigm, symbolic interpretive, structural functionalism, Feminist Paradigms <u>Dietetics of Psychological Research</u> : Idiographic and Nomothetic Explanation, Inductive and Deductive theory, Qualitative and Quantitative data, Pure and Applied research. <u>Ethics of Psychological Research</u> : Informed consent and deception, freedom to withdraw, protection from harm and debriefing, removing harmful consequences, confidentially.	12 hrs
Unit II	<b>Structuring of Research in Psychology</b> <u>Research Methods</u> : Descriptive observation : Naturalistic observation, case study, survey research, sources of error in descriptive research <u>Relational Research</u> : Introduction, data for a correlation study, applications of correlational methods. <u>Experimental Method</u> Qualitative field study : naturalism, ethno methodology, grounded theory, institutional ethnography, participatory action research <u>Research designs</u> : Introduction, purpose Types : pretests –post test, variants of basic designs, randomized group, correlated groups	12 hrs
Unit III	<b>Statistical Evaluation of data in Psychology</b> <u>Quantitative Data Analysis</u> <u>Descriptive Statistics</u> : measures of central tendency, measures of variability, correlation coefficient, regression analysis, normal distribution. <u>Inferential Statistics</u> : sampling, Standard Error Formula (mean, S.D. correlation) testing differences between two groups – t test, F test (one	20 hrs



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	<p>way Anova, two way Anova, ANCOVA)</p> <p><u>Non Parametric Tests</u> : Mann – Whitney, Wilcoxon Signed –ranks, chisquare</p> <p><u>Qualitative Data Analysis</u> : Introduction; linking theory and analysis - Discovering patterns, grounded theory method, semiotics, conversation analysis; Qualitative Data Processing : Coding, Mamoing, concept mapping; Computer programmes for Qualitative data – Leviticus as seen through NUDIST; the qualitative analysis of quantitative data.</p>	
<b>Unit IV</b>	<p><b>Interpreting the Results of Research in Psychology</b></p> <p><u>Interpreting Specific Results</u> : Problem of scale attenuation, regression artifacts</p> <p><u>Interpreting Patterns of Research</u> : Reliability and replication, converging operations.</p>	<b>8 hrs</b>
<b>Unit V</b>	<p><b>Presenting Research Results in Psychology</b></p> <p><u>Goal of a research report</u> : General APA guidelines for writing style format : some elements of working style, guidelines for typing or word processing</p> <p>Elements of an APA – style research; submitting a manuscript for publication, writing a research proposal.</p>	<b>8hrs</b>
	<b>Total Contact Hours</b>	<b>60 hrs</b>



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**Minutes of the Meetings of Committee Constituted to Finalize the Syllabus of a New Paper Proposed by UGC in the Curriculum of Ph.D. Programme**

A committee was constituted to finalize the Syllabus of a New Paper on Research and Publication Ethics Proposed by UGC in the Curriculum of Pre-registration Course Work of Ph.D. Programme from the Academic Session 2020-21. The committee members held 04 virtual meetings from 26<sup>th</sup> to 30<sup>th</sup> March 2020. The following members were present in these meetings:

Prof. Roopa Mathur Dean Academics	Convener
Prof. Nisha Yadav Controller of Examination	Member
Dr. Priyanka Mathur Head, Dept. of Zoology	Member
Dr. Rimika Singhvi Head, Dept. of English	Member
Dr. Ruchi Jain Dept. of Business Administration	Member

In the first meeting, the members were apprised of the following details regarding the aforementioned Paper as recommended by the UGC:

1. Paper Title- **Research and Publication Ethics (RPE)**
2. Credits- 02
3. Contact Hours- 30 hrs./Semester
4. Faculty- Interdisciplinary Studies
5. Eligibility- M.Phil./Ph.D. students & Interested Faculty
6. Qualification of Faculty Teaching the Paper- Ph.D. in the relevant area with more than 10 years of teaching experience
7. Pedagogy of the Paper- Class room teaching, guest lectures, group discussion, and practical session
8. Evaluation- Continuous Assessment (Tutorials, assignments, quizzes, group discussions) Semester End Examination
9. Course Structure & Detailed Syllabus-

Module	Unit Title	Teaching Hours
<b>Theory</b>		
RPE 01	<b>Philosophy and Ethics</b> 1. Introduction to philosophy: definition; nature & scope; concept; branches 2. Ethics: definition; moral philosophy; nature of moral judgements & reactions	4
RPE 02	<b>Scientific Conduct</b> 1. Ethics with respect to science & research 2. Intellectual honesty & research integrity 3. Scientific misconducts: falsification, fabrication, & plagiarism (FPP) 4. Redundant publications: duplicate & overlapping publications, salami slicing 5. Selective reporting & misrepresentation of data	4

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RPE 03	<b>Publication Ethics</b> 1. Publication ethics: definition, introduction & importance 2. Best practices/standard setting initiative & guidelines: COPE, WAME etc 3. Conflicts of interest 4. Publication misconducts: definition, concept, problems that lead to unethical behaviour & vice versa, types 5. Violation of publication ethics, authorship & contributor-ship 6. Identification of publication misconduct, complaints & appeals 7. Predatory publishers & journals	7
<b>Practice</b>		
RPE 04	<b>Open Access Publishing</b> 1. Open access publications & initiatives 2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies 3. Software tools developed to identify predatory publications by SPPU 4. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested etc.	4
RPE 05	Publication Misconduct <b>A. Group Discussion (2 hrs)</b> 1. Subject specific ethical issues, FPP, authorship 2. Conflicts of Interest 3. Complaints and appeals: examples and Frauds from India and abroad  <b>B. Software Tools (2 hrs)</b> Use of plagiarism software like Turnitin, Urukund, and other open source software tools	4
RPE 06	<b>Databases &amp; Research Metrics</b> <b>A. Databases (4 hrs)</b> 1. Indexing databases 2. Citation databases: Web of Science, Scopus etc  <b>B. Research Metrics (3 hrs)</b> 1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score 2. Metrics: h-index, g index, i10 index, altmetrics	7
<b>Total</b>		<b>30</b>

The members of the committee noticed that the syllabus proposed by UGC had 06 units whereas at IIS (deemed to be University) the system of 05 units per paper is followed. In the subsequent meetings discussions were held and it was observed that the 5<sup>th</sup> unit is basically an extension of topics included in units 2, 3 and 4. Therefore it was decided that the topics for Group Discussion as included in the 'A' part of the 5<sup>th</sup> unit be merged with relevant topics in Units 2 & 3 whereas the topic on Software Tools be merged with subtopic 3 of unit 4. Accordingly, it was proposed that the number of contact hours per unit may also be changed. The **Proposed Syllabus** is as given below:

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RPE 02	<b>Scientific Conduct</b> 1. Ethics with respect to science & research, group discussion on subject specific ethical issues 2. Intellectual honesty & research integrity 3. Scientific misconducts: falsification, fabrication, & plagiarism (FPP), group discussion on subject specific FPP issues 4. Redundant publications: duplicate & overlapping publications, salami slicing 5. Selective reporting & misrepresentation of data	6
RPE 03	<b>Publication Ethics</b> 1. Publication ethics: definition, introduction & importance 2. Best practices/standard setting initiative & guidelines: COPE, WAME etc 3. Conflicts of interest, group discussions on conflicts of interest 4. Publication misconducts: definition, concept, problems that lead to unethical behaviour & vice versa, types 5. Violation of publication ethics, authorship & contributor-ship, group discussion on subject specific authorship issues 6. Identification of publication misconduct, complaints & appeals, group discussion on examples and fraud from India & abroad 7. Predatory Publishers & journals	7
<b>Practice</b>		
RPE 04	<b>Open Access Publishing</b> 1. Open access publications & initiatives SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies 2. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester etc. 3. Software tools developed by SPPU to identify predatory publications 4. Software tools: use of plagiarism software like Turnitin, Urkund, and other open source software tools	7
RPE 05	<b>Databases &amp; Research Metrics</b> <b>Databases (3 hrs)</b> 1. Indexing databases 2. Citation databases: Web of Science, Scopus, etc. <b>Research Metrics (3 hrs)</b> 1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score 2. Metrics: h-index, g index, i10 index, altmetrics	6
	<b>Total</b>	



### Proposed Evaluation and Assessment Pattern

Considering that this paper is of 2 credits only, one suggestion was that it can be assessed online the way foundation papers are done. However, Controller of Examination Prof. Nisha Yadav proposed that it be assessed the way other papers in the Ph.D. course work are assessed. Hence the following Scheme is proposed for the assessment of this paper:

#### Continuous Assessment (CA) 50 marks

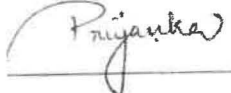
CA Test	Assignment	Group Discussion
30	10	10


It is proposed that the CA test should not have questions from topics included under group discussion in units 2, & 3 as they would be assessed through GD

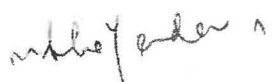
#### Semester End Examination (SEE)- 50 marks

Question paper be of the same pattern as other papers in the Ph.D. Course work. However, questions from topics included under group discussion in units 2 & 3 be avoided so that a common question paper may be set for all scholars across departments, and faculties.

  
**Dr. Ruchi Jain**  
Dept. of Business Administration

  
**Dr. Priyanka Mathur**  
Head, Dept. of Zoology

  
**Dr. Rimika Singhvi**  
Head, Dept. of English

  
**Dr. Nisha Yadav**  
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