

**Scheme of Examination**  
**Ph.D. course work in Psychology**  
(As per Credit System w.e.f. the academic year 2023-24)  
**Program Specific Outcomes**

**Learning Objectives:**

- To impart conceptual and theoretical knowledge in advanced research methodology and current areas of research.
- Prepare students for designing, execution, analysing and reporting research in Psychology.

**Learning Outcomes:**

- Students would get experiential knowledge about library review and field work.
- Students would be acquainted with recent trends in psychology.
- Students would gain mastery in advanced psychological assessment.
- Students would be able to design, conduct and report research in various fields of Psychology.

**SEMESTER 1**

Course Code	Nomenclature of Course	Theory marks (end semester examination)	Internal Assessment marks	Maximum marks	Hours /Week	Credits
23PSYPH11C1	Advances in Research Methodology	70	30	100	4	4
23PSYPH11C2	Recent Trends in Psychology	70	30	100	4	4
23PSYPH11C3	<b>Practicum:</b> Project Report : Library Review Based*	Practical marks (End semester examination)	Internal Assessment marks	Maximum marks		
		35	15	50	4	2
23PHCC1	Research and Publication Ethics	Theory marks (end semester examination)	Internal Assessment marks	Maximum marks	Hours /Week	Credits
		35	15	50	2	2
<b>Total marks/Credits</b>				<b>300</b>		<b>12</b>

- Note -**
1. Each course shall have an internal assessment of 30 %. It shall comprise of two written assignments (7.5 % each). The presentations (7.5% each). The concerned teacher. Head of the Department shall maintain the record for at least six months after the declaration of results. \*The practicum course will comprise of review record as Internal Assessment of 15 marks.
  2. The topic of the Seminars will be assigned to every student by the class teacher concerned and it will be evaluated by a panel of Examiners consisting of two (HOD + concerned teachers of the paper) members.



<b>Name of the Program</b>	Ph.D. Course work	<b>Program Code</b>	PH
<b>Name of the Course</b>	Advances in Research Methodology	<b>Course Code</b>	23PSYPH11C1
<b>Hours/Week</b>	4	<b>Credits</b>	4
<b>Max. Marks.</b>	100	<b>Time</b>	3 Hours
<b>End Exam Theory</b>	70 marks	<b>Internal Assessment</b>	30 marks

**Note:** Eight questions would be set in all.  
There would be two questions from each of the four units.  
Candidate would be required to attempt **five questions** (selecting atleast one from each unit.).  
All questions carry equal marks.

**Course Objectives:**

- Develop understanding of development and testing of research ideas and research designs.
- To impart knowledge about Analysis of Variance.
- Impart knowledge and understanding of Correlational techniques and Regression.
- Familiarize the students with qualitative techniques in Psychological research.

**Course Outcomes:**

- Students be would be able to develop and test research ideas and apply the knowledge of research designs in planning and analysing research.
- Students would gain knowledge about the assumptions, technique and applications of ANOVA
- Students would gain knowledge about special correlational and regression analysis.
- Students would gain knowledge about techniques and applications of qualitative research.

**Unit – I**

Development and Testing of Research Ideas.

Experimental Designs: Randomized block, Latin Square and Multifactor design, Quasi Experimental design

**Unit – II**

Analysis of Variance: Uses, Assumptions and Applications of ANOVA in Psychological Research.

ANOVA: Independent and equal N (One way, two way and three way); Repeated Measures (One way and two way) with repeated measures on one and both factors.

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### Unit – III

Special correlations : Uses and Applications; Biserial, Point Biserial, Tetrachoric and Multiple correlation.

Regression: Uses, Assumptions and Limitations ; Simple and Multiple Regression

### UNIT-IV

Qualitative Analysis: Applications, Assumptions and Limitations.

Qualitative Methods: Content analysis, Grounded Theory, Category Identification, Narratives.

#### Recommended Books:

Broota K.D. (1989). *Experimental Design in Behavioural Research*. New Delhi: Willey Eastern

Giles, D.C. (2002). *Advanced Research Methods in Psychology*. New York: Rutledge.

Hair, J.F., Anderson, R.E., Tatham, R.L., & Black, W.C. (1995). *Multivariate Data Analysis*. Jersey: Prentice Hall.

Kline, T.J.B. (2005). *Psychological Testing*. New Delhi: Vistaar Publications.

Mc Burney, D.H. (1994). *Research Methods*. California: Brooke/Cole.

McGuigan, F.J. (1993). *Experimental Psychology Methods of Research*. New Delhi: Prentice Hall

.Nachmias, D., & Nachmias, C. (1981). *Research Methods in Social Sciences*. New York: St. Martin's Press.

Ray, W.J. (2003). *Methods*. California: Thomson Wordsworth.

Shaughnessy, J.J. and Zechmeister E.B. and Zechmeister, J.S. (2000) *Research Method in Psychology*. New York: McGraw Hill.

Smith, J.A. (2003). *Qualitative Psychology*. London: Sage Publications.

Smith, J.A.(2008). *Qualitative Psychology: A practical Guide to Research Methods*. New Delhi: Sage.

Spences, B. and Bowers, D (1976). *An Introduction to Multivariate Techniques for Social and Behavioral Sciences*. London: The Macmillan Press Ltd.

Tabachnick, B.G..& Fidell L.S. (1983). *Using Multivariate Statistics*. New York: Harper and Row

Winer, B.J. (1971). *Statistical Principles in Experimental Design*. London: McGraw Hill, Ltd.

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Name of the Program	Ph.D. Course work	Program Code	PH
Name of the Course	Recent Trends in Psychology	Course Code	23PSYPH11C2
Hours/Week	4	Credits	4
Max. Marks.	100	Time	3 Hours
End Exam Theory	70 marks	Internal Assessment	30 marks

**Note:** Eight questions would be set in all.

There would be two questions from each of the four units.

Candidate would be required to attempt **five questions** (selecting atleast one from each unit.)

All questions carry equal marks.

**Course Objectives:**

- Develop understanding of Cognitive Psychology in Differential and Cross-cultural perspective.
- Familiarization with the nature and contemporary issues in Military Psychology.
- To understand the nature and relevance of Media Psychology.
- Gain knowledge of the theoretical aspects and applicability of Political Psychology.

**Course Outcomes:**

- Students would be able to relate theories and the findings from research studies in Cognition to research and professional areas.
- Students would be sensitized to the utility and applicability of Psychology in defence services
- Students would be able to comprehend and apply the psychological processes underlying media effects or influences to research and professional areas.
- Students would be able to comprehend and apply the psychological processes underlying politics to research and professional areas

**Unit – I**

Cognitive Psychology: Individual differences in Cognition; Gender differences in Cognition; Cognition in Cross-cultural perspective

**Unit – II**

Military Psychology: Nature and Scope; Contemporary Issues and Emerging Trends; Selection, Allocation and Training.

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### Unit – III

Media Psychology: Nature and scope; Influences of Films on behavior; Portrayal of Social groups in Films; Films and Behavior transformation.

### Unit-IV

Political Psychology: Psychologies underlying Political Psychology; Psychology of Racism and Intolerance; Psychology of voting behavior.

#### Recommended Books:

- Galotti, K.M.(2014). *Cognitive Psychology: In and Out of the Laboratory*. New Delhi: Sage
- Giles, D.C. (2010). *Psychology of the media*. Basingstoke: Palgrave.
- Giles, D.C. (2003). *Media psychology*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Hall, R. & Mangelsdroff, A.D. (1991). *Handbook of Military Psychology*. USA: John. Wiley & Sons.
- Houghton, D.P. (2009). *Political Psychology: Situations, Individuals, and Cases*. New York and London: Routledge.
- Huddy, L., Sears, D.O., & Levy, J.S. (2013) *The Oxford Handbook of Political Psychology*. New York: Oxford University Press.
- Kennedy, C.H. & Zillmer, E.A. (2006). *Military Psychology: Clinical and Operational Applications*. N.Y: Guilford Press.
- Ramachandran, K. (in press). *Handbook of Military Psychology*. Delhi: DIPR.

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Name of the Program	Ph.D. Course work	Program Code	PH
Name of the Course	<b>PRACTICUM</b> Project Report : Library Review Based	Course Code	23PSYPH11C3
Hours/Week	4	Credits	2
Max. Marks.	50	Time	3 Hours
End Exam Practical	35 Marks	Internal Assessment	15 Marks
<b>Learning Objectives:</b>			
<ul style="list-style-type: none"> <li>To train the students for library based project work.</li> </ul>			
<b>Learning Outcomes:</b>			
<ul style="list-style-type: none"> <li>Students would be able to write review based articles.</li> </ul>			
<b>Project Report: Library Review Based</b>			
<p>Each Student will undertake a library review on a topic to be assigned by supervisor (Dissertation) and submit a report. However, the topic will be different from the topic of dissertation. Evaluation of will be on the basis of Report and Viva.</p>			

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<b>Name of the Program</b>	Ph.D. Course work	<b>Program Code</b>	PH
<b>Name of the Course</b>	Research and Publication Ethics	<b>Course Code</b>	23PHCC1
<b>Hours/Week</b>	2	<b>Credits</b>	2
<b>Max. Marks.</b>	50	<b>Time</b>	3 Hours
<b>End Exam Theory</b>	35 marks	<b>Internal Assessment</b>	15 marks

**Note:** The examiner has to set a total of eight questions comprising two questions from each unit. Candidate would be required to attempt **five questions** (selecting atleast one from each unit). All questions carry equal marks.

**Course Objectives:**

1. To study the philosophy of ethics
2. To study the scientific conduct of research
3. To study the publication ethics
4. To know about various journal citation databases
5. To know the importance of quality publications

**Course Outcomes:**

By completion of course the student is able to

1. Ethics in conduct of scientific research
2. Know the scientific misconducts
3. How to avoid plagiarism and what are the penalties of plagiarism?
4. Know the quality of research publications
5. Write research and review articles.

**Unit - I**

**PHILOSOPHY AND ETHICS**

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgments and reactions

**SCIENTIFIC CONDUCT**

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
4. Redundant publications: duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

**Unit - II**

**PUBLICATION ETHICS**

1. Publication ethics: definition, introduction and importance
2. Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.
3. Conflicts of interest
4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
5. Violation of publication ethics, authorship and contributor ship
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and journals

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### Unit - III

#### DATABASES AND RESEARCH METRICS

##### (A) Databases

1. Indexing databases
2. Citation databases: Web of Science, Scopus, etc.

##### (B) Research Metrics

1. Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score
2. Metrics: h-index, g index, i10 index, altmetrics

### Unit - IV

#### Practice

#### OPEN ACCESS PUBLISHING

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.

#### PUBLICATION MISCONDUCT

##### (A) Group Discussions

1. Subject specific ethical issues, FFP, authorship
2. Conflicts of interest
3. Complaints and appeals: examples and fraud from India and abroad

(B) Software tools (2 hrs.): Use of plagiarism software like Turnitin, Urkund and other open source software tools

#### References:

1. Bird, A. (2006). Philosophy of Science, Routledge
2. P. Chaddah (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarised.
3. Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019).
4. Beall, J (2012), Predatory publishers are corrupting open access. Nature, 489(7415), 179.
5. National Academy of Sciences, National Academy of Engineering and Institute of Medicine (2009). On being a Scientist: A guide to Responsible Conduct in Research, Third Edition, National Academic press.

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