

T.Y.B.A. Psychology Syllabus Semester V & VI



Hindi Vidya Prachar Samiti's

**RAMNIRANJAN JHUNJHUNWALA
COLLEGE OF ARTS, SCIENCE &
COMMERCE**

(EMPOWERED AUTONOMOUS COLLEGE)

Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for the T.Y.B.A.

Program: B.A. PSYCHOLOGY

Program Code: RJPSY

National Education Policy (NEP 2020)

(CBCS 2025-2026)

Preamble

The National Education Policy 2020 aims at imparting skill-based learning and caters to the multiple entry and exit facility for the students thus empowering them to acquire knowledge at their pace in the three-year UG program, the student has two exit options. Students also have the option of choosing the Honors program of four years of study in a given discipline and later converting it to a five-year integrated PG degree program. As an undergraduate student, he/she learns the core subject (Major), a subject complementing the core subject (Minor), a course from another discipline (OEC or GEC) Vocational and Skill Enhancement course from the Major (VSEC). The remaining verticals under NEP 2020 are IKS (Indian Knowledge System), AEC (Ability Enhancement Course), VEC (Value Enhancement Course) and with progressive three years of UG, student also completes at different levels OJT (On Job Training), FP (Field Projects), CEP (Community Engagement Project), RP (Research Project) which helps him/her in understanding their roots, application of the knowledge for the benefit of self and the society. Vertical CC (Co-curricular activities and activities related to yoga and human well-being) helps in preparing youth with good character and interpersonal relationships.

T.Y.B.A. Psychology Syllabus Semester V & VI

T.Y.B.A. PSYCHOLOGY

Credit structure as per NEP-2020 implemented from the academic year 2025-26

Mandatory Courses for Students opting Psychology Major:			
DSE (Open Elective)	RJDSEPSY501	Manual Experiments & Research Proposal (area 1)	4
		OR Manual Experiments & Research Proposal (area 2)	

T.Y.B.A. Psychology Syllabus Semester V & VI

T.Y.B.A. PSYCHOLOGY

Credit structure as per NEP-2020 implemented from the academic year 2025-26

Mandatory Courses for Students opting Psychology Major:			
DSE	RJDSEPSY601	Computerized Experiments & Research Project (area 1)	4
		OR	

(Open Elective)		Computerized Experiments & Research Project (area 2)	
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DISTRIBUTION OF TOPICS AND CREDITS

T.Y.B.A. PSYCHOLOGY SEMESTER V

Paper: DSE

Paper Name: Practicals in Psychology: Experiments, Testing, & Research

Course Code	Paper Title	Credits	Components
RJDSEPSY50 1	Practicals in Psychology: Experiments, Testing, & Research Part I	04 (60 hours)	● Introduction to Research Methodology ● Two Experiments in Cognitive Processes (Divided Attention, Levels of Processing) ● Two Psychological Tests: Personality & Self-Perception ● Research Proposal

DISTRIBUTION OF TOPICS AND CREDITS
T.Y.B.A. PSYCHOLOGY SEMESTER VI

DSE

Paper Name: Practicals in Psychology: Experiments, Testing, & Research

Course Code	Paper title	Credits	Components
RJDSEPSY601	Practicals in Psychology: Experiments, Testing, & Research Part II	04	● Academic Writing & Ethics ● Two Experiments in CogLab (Brown Peterson Task, Word Association Task) ● Two Psychological Tests: Intelligence & Aptitude/Interest ● Research Conduction, Analysis, & Report

Course Outcomes (COs) B.A. PSYCHOLOGY

DSE

SEMESTER	:	V - DSE
TITLE OF THE SUBJECT	:	Name: Practicals in Psychology: Experiments, Testing, & Research
COURSE CODE	:	RJDSEPSY501
CREDITS	:	04
DURATION	:	60 HOURS

LEARNING OBJECTIVES	
1	Illustrate the fundamentals of Research Methodology, Psychological Experiments & Test Administration
2	Compose a research proposal & a written research project based on self-developed research ideas.
3	Introducing the students to Psychological Testing: administration, scoring and interpretation of the psychological tests, understanding the concepts of reliability and validity and nuances of procedures and ethical issues.
4	Orienting the students to computer-based experiments (Coglab) and sensitize them to methodological issues, strengths and limitations of use of computers for conducting experiments in psychology.

COURS E OUTCO ME NUMBE R		PSO Addressed	BLOOMS LEVEL
CO1	Students would learn to apply important concepts of research methodology.	1	BT Level III, IV Apply draw conclusions

CO2	Students would learn the Ethics in Psychological Research applying APA Ethical Principles in Research & Publication	BT level III, IV and V
CO3	Learners would be able to Translate theoretical concepts into application-based experiments. Students would be able to Conduct experiments following standardized procedures.	BT level III, IV and V
CO4	Apply statistical tests and analyze the data collected and write reports on research conducted using APA format.	BT level III, IV and V

SEMESTER V		CR
DSE Practicals in Psychology: Experiments, Testing, & Research Part I	Paper Code : RJDSEPSY501	04
Component I: Introduction to Research Methodology		
1. Overview of the Scientific Method & the Research Process		
2. Research ideas, Hypotheses, Identification & Operationalization of Variables		
3. Sampling, Research Strategy & Designs, & Statistical Analyses		
Component II: Two Experiments in Cognitive Processes		
1. Conduct the Experiments		
2. Reporting Individual Data; Pooling Group Data – Statistics: T-test, F-test		
3. APA Style Report: Introduction + Method + Result (Statistical Significance) + Discussion + Conclusion		
Component III: Two Psychological Tests: Personality & Self Perception		

1. Administration, Scoring and Interpretation of the Tests	
2. Writing Report on the Test Findings	
3. Calculate Reliability / Validity of the Tests^	

Component IV: Research Proposal	
1. Research Process: Research Question, Review of Literature	
2. Variables & Operationalization, Hypothesis – Null & Alternative, Research Design	
3. Research Proposal: a) Introduction: Theoretical Background + Literature Review b) Method – Variables – Operational Definition, Design, Participants, Materials/Measures, Procedure, Statistical Analysis, Ethical Considerations) c) Proposed Hypothesis & Expected Results	

For Research Components, faculty guidance will be provided to students with periodic reviews and discussions with faculty. Students are responsible to attend all such meetings whenever scheduled by the faculty guides.

**Course Outcomes (COs) B.A. PSYCHOLOGY
DSE**

SEMESTER	:	VI -
TITLE OF THE SUBJECT	:	Name: Practicals in Psychology: Experiments, Testing, & Research DSE
COURSE CODE	:	RJDSEPSY601
CREDITS	:	04
DURATION	:	60 HOURS

LEARNING OBJECTIVES	
1	Illustrate the fundamentals of Research Methodology, Psychological Experiments & Test Administration
2	Compose a research proposal & a written research project based on self-developed research ideas.
3	Introducing the students to Psychological Testing: administration, scoring and interpretation of the psychological tests, understanding the concepts of reliability and validity and nuances of procedures and ethical issues.
4	Orienting the students to computer-based experiments (Coglab) and sensitize them to methodological issues, strengths and limitations of use of computers for conducting experiments in psychology.

COURS E OUTCO ME NUMBE R		PSO Addressed	BLOOMS LEVEL
CO1	Students would be able to learn to apply the Elements of a Research Report, and Pragmatics.		BT Level III, IV Apply draw conclusions

CO2	Students would learn the Ethics in Psychological Research applying APA Ethical Principles in Research & Publication		BT level III, IV and V
CO3	Learners would be able to Translate theoretical concepts into application-based experiments. Students would be able to Conduct experiments following standardized procedures.		BT level III, IV and V
CO4	Apply statistical tests and analyze the data collected and write reports on research conducted using APA format.	1,3	BT level III, IV and V

SEMESTER VI		CR
DSE Practicals in Psychology: Experiments, Testing, & Research Part II	Paper Code : RJDSEPSY601	04
Component I: Academic Writing & Ethics		055
1. Elements of a Research Report		
2. Pragmatics of Academic Writings with APA Publication Manual		
3. Ethics in Psychological Research, APA Ethical Principles in Research & Publication		
Component II: Two Experiments in Cognitive Processes (CogLab / PEBL)		
1. Conduct the Experiments		
2. Reporting Individual Data; Pooling Group Data – Statistics: T-test, F-test		
3. APA Style Report: [Introduction + Method + Result (Statistical Significance) + Discussion + Conclusion]		
Component III: Two Psychological Tests: Intelligence & Aptitude/Interest		
1. Administration, Scoring and Interpretation of the Tests		
2. Writing Report on the Test Findings		
3. Calculate Reliability / Validity of the Tests^		

Component IV: Research Conduction, Analysis, & Report		
1. Designing & Conduction of own Research Study		

2. Statistical Analysis; Writing an APA Style Research Report	
3. Presentation & Discussion	

For Research Component faculty guidance will be provided to students with periodic reviews and discussions with faculty. Students are responsible to attend all such meetings whenever scheduled by the faculty guides.

References:

American Psychological Association. Ethical principles of psychologists and code of conduct. American Psychological Association. Retrieved from <https://www.apa.org/ethics/code>

American Psychological Association. (2020). *Publication manual of the American Psychological Association 2020: the official guide to APA style* (7th ed.). American Psychological Association.

Galotti, K. M. (2015). *Cognitive Psychology In and Out of the Laboratory* (5th ed.). Sage Publications.

Gravetter, F. J., & Forzano, L.-A. B. (2018). *Research Methods for the Behavioral Sciences* (6th ed.). Cengage Learning.

Kothari, C. R. (2014). *Research Methodology: Methods and Techniques* (2nd ed.). New Age International.

Anastasi, A. & Urbina, S. (1997). *Psychological Testing*. (7th ed.). Pearson Education, (Indian reprint 2002)

Cohen, J. R., & Swerdlik, M. E., (2018). *Psychological Testing and Assessment: An introduction to Tests and Measurement*. (9th ed.). McGraw-Hill (Indian Edition 2018)

Gravetter, F. J., Wallnau, L. B., Forzano, L.-A. B., & Witnauer, J. E. (2021). *Essentials of Statistics for the Behavioral Sciences*. Cengage.

Harris, P. (2008). *Designing and Reporting Experiments in Psychology*. (3rd ed.). Open University Press

Howitt, D., & Cramer, D. (2011). *Introduction to Statistics in Psychology* (5th ed.). Pearson Education Limited.

Kantowitz, B. H., Roediger III, H. L., & Elmes, D. G. (2014). *Experimental psychology* (10th ed.). Cengage Learning.

Martin, D. W. (2007). *Doing Psychology Experiments*. (7th ed.). Thomson Wadsworth

MacLin, M. K., & Solso, R. L., (2008). *Experimental Psychology : A Case Approach*. (8th ed.). Pearson.

CogLab & PEBL:

Francis, G., Neath, I., & VanHorn, D. (2008). *Coglab 2.0 on a CD*. Wadsworth Cengage Learning.

Mueller, S. T. (2012). *The Psychology Experiment Building Language, Version 0.13*. Retrieved from <http://pebl.sourceforge.net>

Surprenant, A.M., Francis, G., & Neath, I. (2005). *Coglab Reader*. Thomson Wadsworth.

Mueller, S. T., & Piper, B. J. (2014). *The Psychology Experiment Building Language (PEBL) and PEBL Test Battery*. Journal of Neuroscience Methods (222), 250–259.

EVALUATION (TOTAL 100 MARKS PER SEMESTER)

Pattern: 60-15-25 (60 Marks Semester End Practical Exam, 15 Marks Test Administration, 25 Marks Research Component)

Semester End Practical Examination (Total 60 Marks):

- Conduction [Instructions + Conduct + Debriefing] = 15 Marks
- Written Report [Introduction + Methodology + Results + Discussion] = 20 Marks
- Viva [Other Experiment + Research Methodology & Statistics] = 15 Marks
- Journal (only Experiment Conduction) = 10 Marks

Test Administration (Internal Evaluation, 15 Marks):

- [Administration of two Psychological Tests]
- Conduct = 10 Marks
- Reports (in Journal) = 05 Marks

Research Component (Internal Evaluation, 25 Marks):

Semester V

- Research Proposal – Presentations in the given format

Semester VI

- Research Report – to be submitted in the given format