REGULATIONS AND CURRICULUM GOVERNING B.SC. CLINICAL PSYCHOLOGY (HONORS) PROGRAM

Implemented in the Academic Year 2025

Name of the Constituent Unit: Yenepoya School of Allied Health Sciences

YENEPOYA
(DEEMED TO BE UNIVERSITY)

Deralakatte, Mangalore, Karnataka.

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NOTIFICATION FROM THE UNIVERSITY

Sl. No.	ACM with date	BOM/BOS with date	Decisions/Approvals
1.	38th ACM/ 27.04.2020	49th BOM/ 30.04.2020	Starting of 3-year B.Sc. Clinical Psychology program under the Faculty of Allied and Healthcare Professions and approval of the Curriculum & Regulations.
2.	47th ACM/ 05.11.2022	58th BOM/ 21.06.2022	Approved the proposal for modifications in the syllabus of B.Sc. Clinical Psychology
3.	63rd ACM/ 16.06.2025	8th Executive council/ 10.06.2025	Notification of curriculum and syllabus for the B.Sc. Clinical Psychology (Honors) program
4.	65th ACM/ 19.09.2025	10th Executive council/ 13.11.2025	Notified the guidelines and syllabus of B.Sc. Clinical Psychology (Honors) program as per the Rehabilitation Council of India under the Faculty of Allied and Healthcare Professions

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1. Preamble

Health care sector has become one of the largest employment generation sectors in India and abroad. Rapidly changing and expanding horizon of the health care sector demands formal training programs in all its allied areas. Advanced complex instrumentation & equipment require technologists not only to operate but also to care & maintain these instruments and equipment. These technologists should possess a strong scientific foundation to be able to perform these tasks at a much higher level than the traditionally trained technicians of the past used to perform. The students who are trained in the technological aspects of medical care with a good scientific foundation will be in a position to competently assist the Physician or Surgeon With these goals Ministry of Human Resource Development (HRD), Govt. of India, has initiated number of reforms in our countries education system. In accordance with this, to match our education system with the international educational pattern, Choice based Credit system is introduced from the academic year 2020- 21 onwards.

Psychology is the psychological specialty that provides continuing and comprehensive mental and behavioral health care for individuals and families; consultation to agencies and communities; training, education and supervision; and research-based practice. It is a specialty in breadth one that is broadly inclusive of severe psychopathology and marked by comprehensiveness and integration of knowledge and skill from a broad array of disciplines within and outside of psychology. The scope of clinical psychology encompasses all ages, multiple diversities and varied systems.

The fourth year of the B.Sc. Clinical Psychology program offers the UG Honours with Coursework, Clinical Placement and Research project, providing students with a balanced integration of academics, research and practical skill development, ensuring a comprehensive learning experience that fosters both theoretical understanding and hands on expertise. Students who have achieved a minimum 7.5 CGPA in B.Sc. Clinical Psychology (Semester I – VI) are eligible for the degree (Semester VII – VIII). The students who have enrolled for B.Sc. Clinical Psychology in the Academic Year 2022 are eligible only if they have achieved a minimum 7.5 CGPA in the Semester I – VI.

2. Definitions

2.1 Academic Year:

Two consecutive (one odd + one even) semesters constitute one academic year.

2.2 Course:

Usually referred to, as 'papers" is a component of a Program. The courses shall define learning objectives and learning outcomes. A course shall comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

2.3 Credits:

Credit defines the quantum of contents/syllabus prescribed for a course and determines the number of hours of instruction required per week. Thus, normally in each of the courses, credits will be assigned on the basis of the number of lectures/tutorial laboratory work and other forms of learning required, to complete the course contents in a 15-20week schedule: One credit =1 hour of lecture per week/ two hours of Laboratory or practical/three hours of clinical rotation, field work/posting. All courses need not carry the same credits.

	Lecture - L	**Tutorial - T**	**Practical - P**	**Clinical Training/ Rotation CT/CR**
1 Credit	1 Hour	1 Hour	2 Hours	3-5 Hours

2.4 Program:

An educational program leading to award of a degree, diploma or certificate.

2.5 Grade Point:

It is a numerical weight allotted to each letter grade on a 10-point scale.

2.6 **Credit Point**:

It is the product of grade point and number of credits for a course.

2.7 **Cumulative Grade Point Average (CGPA)**:

It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

2.8 **Letter Grade:**

It is an index of the performance of students in a said course. Grades are denoted by letters: O, A+, A, B+, B, C, P, F, AB.

2.9 **Semester Grade Point Average (SGPA):**

It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.

2.10 **Transcript or Grade Card or Certificate:**

Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester.

Type of Courses:

2.11 **Core course:** A course that should compulsorily be studied by a candidate as a core requirement is termed as a core course. This is the core requirement to complete the B.Sc. Clinical Psychology (Honors) Program.

2.12 **Skill Enhancement Course:** These courses are aimed at improving practical, professional & procedural knowledge requirement for carrying the highly skilled task related to the field of study.

2.13 **Research Project: (RP)**

2.14 **Multidisciplinary Elective:** Generally, a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure to some other discipline or subject or domain or nurtures the candidate's proficiency skill.

A candidate shall have the freedom to choose Multidisciplinary Elective courses during the academic duration of the particular Program offered by Yenepoya (deemed to be) University through the departments or SWAYAM/Coursera external online platforms or a mix of courses offered by Yenepoya (deemed to be) University and SWAYAM/Coursera as appropriate.

i. A candidate opting for SWAYAM/Coursera courses shall have the freedom to choose the courses of one's own choice and complete such courses before appearing Seventh Semester End Examination.

ii. A candidate shall compulsorily submit the pass certificate of each course successfully completed to the controller of examination of Yenepoya (deemed to be) University through the proper channel before appearing the Seventh semester end examination.

iii. A candidate opting multidisciplinary elective courses offered by the Yenepoya (deemed to be) University through the departments need to take up these courses generally during Seventh semester of the program.

iv. A candidate shall not take the courses offered by the department in which she/he is enrolled.

v. Registration for the multidisciplinary elective courses offered by the Yenepoya (deemed to be) University shall be at least one week prior to the commencement of the course with the CBCS coordinator. The CBCS unit shall notify the list of courses after being approved by the respective BOS. For SWAYAM/Coursera courses shall be as per the enrolment notification by the respective implementation authorities.

Yenepoya (deemed to be) University shall adapt the regulations of UGC governing SWAYAM/MOOC courses as amended from time to time.

3. Eligibility for admission

Students who have achieved a minimum 7.5 CGPA in B.Sc. Clinical Psychology are eligible for the degree.

4. Duration of the program

The duration of the Program shall extend over 2 semesters (i.e., one academic year) each semester comprising minimum of 15 weeks or more each with a minimum of 90 actual working days of instructions in each semester.

5. Maximum period for completion of the program

A Candidate shall complete the two semesters (one year) program within two years from the date of admission for B.Sc. Clinical Psychology (Honors).

6. Aim of the Program

The B.Sc. Clinical Psychology (Honors) program aims to equip students with foundational knowledge of human behaviour, psychological processes, and mental health, along with essential skills in assessment, diagnosis, research, and basic interventions. Through a blend of theory, practical training, and supervised clinical exposure, the program prepares students to apply psychological principles ethically and effectively in healthcare and community settings, and to pursue advanced studies or professional roles in the mental health field.

7. Outcomes of the program

On successful completion of the B.Sc. Clinical Psychology (Honors) program, graduates will be able to:

PO1: Demonstrate comprehensive knowledge of core concepts, theories, and models in Clinical Psychology related to human behavior, mental processes, and mental health. (K, S)

PO2: Apply psychological theories and principles to understand, analyze, and evaluate human behavior across individual, social, cultural, and clinical contexts. (K, S)

PO3: Explain the biological bases of behavior and the brain–behavior relationship relevant to psychological functioning and mental disorders. (S, C)

PO4: Identify and describe common psychiatric and psychological disorders, along with their assessment and evidence-based treatment approaches. (K, S, A)

PO5: Administer, score, interpret, and report psychological assessments ethically and competently under supervision. (S, C, A)

PO6: Apply basic principles and techniques of psychological counseling and psychotherapy in simulated and supervised clinical settings. (K, S, C)

PO7: Demonstrate awareness of ethical standards, professional responsibilities, and sensitivity while assisting in mental health service delivery. (S, C, A)

PO8: Integrate theoretical knowledge with practical skills through laboratory work, field exposure, and supervised clinical training. (K, S, C, A)

PO9: Employ fundamental research skills, including understanding research design, data collection, and interpretation, in psychological inquiry. (S, A, C)

PO10: Exhibit personal and professional growth, including self-awareness, reflective skills, communication abilities, and teamwork essential for clinical practice. (K, S, C)

PO11: Prepare for advanced education, training, or entry-level professional roles by demonstrating foundational competencies required in mental health and allied healthcare settings. (S, A, C)

Program Structure:

	Broad category of course	**Hours/Credits**	**Course (Title + Course Code)**
1.	**Discipline-Specific Courses**		
a)	Theory	**VII Semester**	
		45 Hours/3 Credits	Advance Statistics and Research Methodology
		60 Hours/4 Credits	Cognitive Psychology
		VIII Semester	
		45 Hours/3 Credits	Psychometrics
		60 Hours/4 Credits	Positive Psychology
b)	Practical (SEC)*	**VII Semester**	
		90 hours/6 credits	Clinical Assessment – I
		8 credits	Clinical Placement

	Broad category of course	Hours/Credits	Course (Title + Course Code)
		VII Semester	
		180 Hours/6 Credits	Clinical Assessment - II
2.	**Curriculum Enrichment Courses**		
a)	Research Project	8 Credits	Research Project
3.	**Electives**		
a)	Discipline-Specific Electives	45 Hours/ 3 Credits	Coursera/Swayam
	Total	**45 Credits**	

8. Attendance

10.1 Each course (theory, practical, clinical etc.) shall be treated as an independent unit for the purpose of attendance. Candidates having minimum 80% attendance in each of the Courses can only qualify to appear for the Semester End Examination. The Candidates with less than 80% of attendance shall be required to repeat that Course by attending the semester.

10.2 There shall be no provision for condonation of shortage of attendance.

10.3 For SWAYAM/COURSERA it shall be as per the regulations governing the courses of implementing authority.

10.4 The HOD/Course Coordinator through the Dean of Faculties shall announce the names of the candidates who will not be eligible to take the Semester End- Examinations (SEE) in the various courses and send a copy of the same to the Controller of Examinations (COE) Office. Registrations of such candidates for those courses shall be treated as cancelled.

9. Teaching - Learning methods

Teaching - Learning method	Courses
Experiential learning	Clinical Assessment– I, Clinical Assessment - II
Integrated/Inter-disciplinary learning	Advance Statistics and Research Methodology

Teaching - Learning method	Courses
Participatory learning	Clinical Assessment– I, Clinical Assessment - II
Problem-solving methodologies	Advance Statistics and Research Methodology
Self-directed learning	Coursera, Positive Psychology
Patient-centric and Evidence-based learning	Advance Statistics and Research Methodology, Cognitive Psychology, Psychometrics, Positive Psychology
The Humanities	Cognitive Psychology, Positive Psychology
Project-based learning	Research Project
Role-play	Clinical Assessment– I, Clinical Assessment – II

10. Scheme of Examination

10.1 Theory

Distribution of weightage for Continuous Internal assessment

Internal assessment components	Percentage
Average of two IA tests	20
Continuous comprehensive assessment (CCA)**	20
Assignments /seminar/ Case studies	10
Total marks	**50**

** CCA encompasses quizzes, MCQ Test and assessment through online platforms, such as Coursera and other online courses, which are aligned with the relevant contents of the course syllabus

10.2 Question Paper Pattern for Semester End Examination

MAXIMUM MARKS= 50				Duration
Type of question	Number of questions	Marks for each question	Total	150 minutes
LONG ESSAY	02	15	30	
SHORT ESSAY	02	10	20	
		Total	**50**	

10.3 Practical examination

SI.NO	Components	Marks
1	Spotters	10
2	Case scenario/Stations	20
3	Viva Voice	20
Total Marks		**50**

10.4 Particulars of Practical, Viva-Voce & Dissertation

10.4.1 Practical examination will be aimed at examination of clinical skills and competence of the candidates for undertaking independent work as a specialist.

10.4.2 Viva-Voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence & oral communication skills.

10.4.3 Special emphasis shall be given to dissertation work during the B.Sc. CP (Honors) VIII semester examination.

10.4.4 The marks of the Viva-Voce examination shall be included in the clinical examination to calculate the percentage and declaration of results.

10.4.5 OSCE/OSPE- shall have a minimum of 5 stations.

10.5 Evaluation and Certification of SAWAYAM/Coursera

10.5.1 The Yenepoya (Deemed to be) University incorporate the marks/grade obtained by the student, as communicated by the Host Institution through the PI of the

SWAYAM/Coursera course in the marks sheet of the student that counts for final award of the degree by the University.

10.5.2 Yenepoya (Deemed to be University) will give the equivalent credit weightage to the students for the credits earned through online learning courses through the platform in the credit plan of the program.

10.5.3 In case a student fails to complete the SWAYAM/MOOC course, he/ she may be allowed to complete the course requirements as a supplementary candidate by registering for another course online in subsequent semester or opt for a course offered at Yenepoya (Deemed to be University).

10.6 Credit Mobility of Online Courses:

10.6.1 The Yenepoya (Deemed to be University) will give the equivalent credit weightage to the students for the credits earned through online learning courses as per the credit plan of the program.

10.6.2 In case a student fails to complete the online course he/ she may be allowed to complete the course requirements by registering for another online course in subsequent semester or opt for a course offered at Yenepoya (Deemed to be University), provided such a course is offered during that semester.

10.6.3 The elective course offered by the Yenepoya (Deemed to be University) shall be restricted to a maximum of 3 credits.

10.6.4 A candidate shall compulsorily complete total 6 Credits of Multidisciplinary courses.

10.6.5 These courses shall be selected either from the Generic Electives offered by the Yenepoya (Deemed to be) university or from the SWAYAM/Coursera courses. A Candidate shall have freedom to choose the courses of once own choice and learn at their own pace but, require to complete minimum 3 credits before second semester and 6 credits before third semester SEE.

10.6.6 A candidate who wishes to earn additional credits may be permitted to do so during the academic duration. The additional credits earned

shall be for enrichment purposes only and shall not be reflected in the marks card and shall not be considered for grade calculation, credit requirements, or the awarding of grades.

10.7 Assessment of Clinical Placement

In the seventh semester students will undergo Clinical Placement in a Rehabilitation center/Mental health Organization/NGO's/Hospital for about 24 hours per week. Assessment comprises of Continuous Internal Assessment (CIA) and Semester End Examination (SEE), each contributing 50 marks. The internal marks allocated for clinical placement will primarily be based on the assessment conducted using the evaluation rubric outlined in the logbook, accounting for a total of 50 marks. The candidate must submit a consolidated internship report outlining learning objectives and provide an attendance certificate. Additionally, maintaining a daily logbook is mandatory. The work done by the candidate is assessed by an authorized supervisor using a predetermined evaluation rubric. Semester end examination shall be jointly conducted and evaluated by one internal examiner and one external examiner through viva voce.

10.8 Assessment of Research Project

A declaration by the candidate that the work was done by him/her shall be included. The guide, Head of the Department and Head of the Institution shall certify the bonafide of the Project.

Total 200 marks shall be awarded for the research project and the marks distribution as follows:

- 100 marks-Dissertation evaluation by Internal and External examiners
- 100 marks- Continuous Internal Assessment.

10.9 Continuous Internal Assessment (CIA) – Research Project (Total: 100 Marks)

Parameters	Marks
Maintaining the timeline	10
Presentation at Conference/CME/Publication(student can	40

choose any of the criteria to avail 40 marks)		
Criteria	**Marks Allocated**	
Online Oral/ online Poster/ Offline Poster presentation	20	
Offline Oral presentation at Conference/ Review paper publication in Indexed Journal	40	
Manuscript submission (Based on the dissertation) to the Indexed journals (SCOPUS/WOS) along with submission of final dissertation.		50
Total		**100**

10.10 Evaluation of dissertation

10.10.1 Dissertation shall be evaluated by 2 examiners, one external & one Internal for 100 marks from the panel of examiners approved by the Board of Studies and by the University.

10.10.2 The criteria for the evaluation shall be as prescribed by the Board of Studies.

10.10.3 Acceptance of the research project is a pre-requisite for a candidate to be eligible to appear in the final examination.

10.11 Guide

The academic qualification and teaching experience required for recognition of guide shall be as given under:

10.11.1 M.Phil. in clinical Psychology/MD in Psychiatry with teaching experience of two years M.Sc. with teaching experience of three years.

10.11.2 A recognized guide shall supervise dissertation work of not more than five students per academic year. The age of the guide shall not exceed 65 years.

10.11.3 Co- guide may be included provided the work requires substantial contribution from a sister department to from another institution recognized for teaching Yenepoya University or any other State Level University.

10.12 Change of Guide:

In the event of registered guide leaving the Institute/ college due to any reason or in the event of death or any other valid reasons, the guide can be changed with prior permission from the university only.

11. Eligibility to appear for University Examination

13.1 Candidates having minimum 80% attendance in each of the Courses can only qualify to appear for the Semester End Examination. The Candidates with less than 80% of attendance shall be required to repeat that Course by attending the semester.

13.2 Evaluation of a course shall be done based on continuous internal assessment (CIA) mode followed by semester end university examination (SEE) for each course.

13.3 The components of CIA (Continuous Internal Assessment) may include Sessional Tests, Seminar, Assignment/ social involvement and other activities as determined by the respective speciality.

13.4 The marks for CIA shall be 50% and SEE shall be 50%.

13.5 There shall be no minimum marks for CIA and SEE for a pass, but the minimum marks for pass per course shall be 50% CIA and SEE added together.

12. Criteria for passing

14.1 A candidate shall be declared to have passed the Hons. program if he/she secures at least a CGPA of 5.0 (Course Alpha-Sign Grade P) in the aggregate of both internal assessment and semester- end examination marks.

14.2 The candidates who pass the two semester examinations in the first attempts in one year are eligible for ranks provided they secure at least a CGPA of 8.0 (at least Alpha- Sign Grade A).

14.3 The results of the candidates who have passed the eighth semester examination but not passed the seventh semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

14.4 A candidate who passes the semester examinations in parts is eligible for only CGPA and Alpha- Sign Grade but not for ranking.

14.5 There shall be no minimum in respect of internal assessment and viva-voce marks.

14.6 A candidate who fails in any of the project work /project report/ dissertation shall reappear for the same and pass the examination subsequently within the nearest semester end examination schedule.

13. Carry over provision:

Carry over shall be allowed to the candidates for all the semesters.

14.Re-Entry after Break of the study:

a. Candidates admitted to a program abstaining for more than 3 months must seek readmission into the appropriate semester.

b. The candidate shall follow the syllabus in vogue (currently approved/is being followed) for the program.

c. All readmissions of candidates are subject to the approval of the Yenepoya (Deemed to be University).

15. Grading and Classification

The Deemed to be University would be following the absolute grading system, where the marks are compounded to grades based on pre-determined class intervals.

a) The UGC recommended 10-point grading system with the following letter grades are given below:

Letter Grade	Grade Point
O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Above Average)	6

C (Average)	5
P (Pass)	4
F (Fail)/ RA (Reappear)	0
Ab (Absent)	0
Not Eligible (NC) detained	0

A student obtaining Grade RA/ Ab shall be considered failed and will be required to reappear in the end semester examination.

The results at the end of the two semester shall be classified on the basis of CGPA obtained in the two semesters and the corresponding overall letter grade.

b) The letter grade as described below shall be adopted.

Letter Grade	CGPA Range
O+ (Outstanding)	9.0 – 10.0
O (Excellent)	8.0 – 8.99
A+(Very Good)	7.0 – 7.99
A(Good)	6.0 – 6.99
B+(Average)	5.5 – 5.99
P(Pass)	5.0 – 5.49
F (Fail)	< 5.0

16. Journals

a. Perspectives on Psychological Science (Perspect. Psychol. Sci.) — SAGE Publications.
b. Psychological Methods (Psychol. Methods) — American Psychological Association.
c. Psychometrika (Psychometrika) — Springer.
d. Cognition (Cognition) — Elsevier.
e. Journal of Positive Psychology (J Posit. Psychol.) — Routledge.

17. Syllabus

SEMESTER VII

ADVANCE STATISTICS AND RESEARCH METHODOLOGY

Course type: Core **Credits: 3**

Duration: 45 hours

Course Outcomes:

By the end of the course, the students will be able to:

CO1: Understand the fundamental concepts of Research Methodology and its significance.
CO2: Identify different types of research methodologies and comprehend the research process from problem identification to reporting.
CO3: Familiarize with sampling techniques, study designs and ethical considerations crucial for conduct of research.
CO4: Gain a basic understanding of statistical concepts including measures of central tendency, probability distributions, and hypothesis testing.
CO5: Learn about correlation, regression analysis and advanced statistical techniques relevant to the conduct of research.

Course contents

RESEARCH METHODOLOGY

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
	2	**Introduction**					
		1.1 Need for research	✓				

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
1		1.2 Types of research	✓			10	SE
		1.3 Outlining the research process	✓				
2	2	**Review of Literature**				10	SE
		2.1 Importance, sources & steps	✓				
		2.2 Critical appraisal of research article	✓				
3	2	**Research Design**				10	LE, SE
		3.1 Types of research – Qualitative & Quantitative	✓				
		3.2 Experimental & Non Experimental, Survey – advantages & disadvantages	✓				
4	2	**Research Process**				15	LE, SE
		4.1 Framing a research question	✓				
		4.2 Research title	✓				
		4.3 Aim & Objectives, Assumptions, Limitations & Delimitations, Variables	✓				

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
		4.4 Hypothesis – formation & testing	✓				
5	2	**Data collection & analysis**				20	LE,SE
		5.1 Data sources, technique of data collection, tools	✓				
		5.2 Reliability & validity	✓				
		5.3 Process of data collection	✓				
		5.4 Pilot study – method, need	✓				
6	2	**Interpretation & presentation of data**				15	LE,SE
		6.1 Qualitative & quantitative analysis	✓				
		6.2 Graphical representation of data	✓				
		6.3 Conclusion &discussion	✓				
7	2	**Discussion, Conclusion and References**	✓			10	SE
8	2	**Essentials of writing a research paper along with process of publication**	✓			10	LE

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ADVANCE STATISTICS

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
1	6	**Introduction**				5	LE, SE
		1.1 Introduction to biostatistics &research methodology	✓				
		1.2 Types of variables	✓				
		1.3 Scales of measurements		✓			
		1.4 Measure of central tendency & dispersion.	✓				
		1.5 Rate, ratio, Proportion, Incidence & Prevalence	✓				
2	3	**Sampling**				10	LE, SE
		2.1 Population & Sample, different.	✓				
		2.2 Sampling and non-sampling errors and methods of minimizing these errors	✓				
		2.3 Random and non-random sampling	✓				
		2.4 sampling techniques – simple random, stratified, systematic, cluster& multistage	✓				

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
3	3	**Sampling distributions**				5	SE
		3.1 Parameter and Statistic. Standard error. Basic probability distributions - Normal, Poisson, binomial distributions with their applications in biological sciences	✓				
4	6	**Tests of significance**				15	LE, SE
		4.1 Basics testing of hypothesis – Null & Alternative hypothesis	✓				
		4.2 Type 1 and type II errors	✓				
		4.3 Level of significance (parametric) & power of the tests, p value, Confidence interval.	✓				
		4.4 Tests of significance – t test (paired &UN paired),	✓				
		4.5 Chi square test & Test of proportion	✓				

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
		4.6 One way analysis of variance. Repeated measures analysis of variance. Tests of significance (non-parametric) – Mann – Whitney U Test, Wilcoxon Test, Kruskal – Wallis Analysis of variance, Friedmann's Analysis of variance	✓				
5	3	**Correlation and regression**				15	LE
		5.1 Linear correlation by Karl Pearson and rank order correlation due to Spearman, Testing the significance of correlation co efficient, simple linear regression – estimation & testing, residual plots, multiple linear regression.	✓				
6	2	**Sample size determination**				5	SE
		6.1 General concept. Sample size for estimating means and proportion	✓				

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
		6.2 Testing of difference in means and proportions of two groups.	✓				
7	2	**Study designs**				10	LE, SE
		7.1 Epidemiological methods – case series analysis and prevalence studies	✓				
		7.2 Analytical epidemiological methods – case control and cohort studies.	✓				
		7.3 Clinical trials / intervention studies, odds ratio and relative risk, stratified analysis	✓				
8	2	**Multivariate analysis**				15	LE, SE
		8.1 Concept of multivariate analysis, introduction to logistic regression and survival analysis	✓				
9	1	**Reliability and validity of diagnostic tests**				10	LE, SE
		Sensitivity, Specificity, Positive Predictive Value (PPV), Negative Predictive Value (NPV), ROC curve	✓				

Unit	T/L Hours	Contents	Must Know	Good to Know	Desirable to know	Weightage in %	Type of questions
10	1	**Format of scientific documentations** 10.1 Structure of research protocols, structure of thesis/research report, formats of reporting in scientific journals. Systematic review and meta-analysis.	✓			10	LE, SE

❖ **LE**- Long Essay**, SE**- Short Essay

Recommended Books

1. Colton T. *Statistics in medicine*. Boston: Little Brown & Co;1974
2. Hill AB. *Principles of medical statistics*. 8th ed. New York: Oxford University press; 1966
3. Lancaster HO. *Introduction to Medical Statistics*, New York: John Wiley & sons;1974
4. Lewis AE. *Biostatistics*. New York: Reinhold publishing Co;1984
5. Mahajan BK. *Methods of Biostatistics.* 6th ed India: Jaypee Brothers; 2018
6. Potti LR. *A text book of statistics.* India: Yamuna publications; 2006
7. Rao NSN. Applied statistics in health sciences. 2nd ed. India: JP publishers; 2010

COGNITIVE PSYCHOLOGY

Course type: Core **Credits: 4**

Duration: 60 hours

Course Outcomes:

By the end of the course, the students will be able to:

CO1: Understand the cognitive processes of human mind.

CO2: Acquire and develop the basic cognitive functions of humans such as attention, and perception.

CO3: Develop higher knowledge about cognitive functions such as memory, and thinking.

CO4: Predict the language comprehension and individual differences in cognitive functions.

Course Contents:

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
1	10	**Introduction**				15	LE, SE
		1.1 Definition nature, goals, scope	✓				
		1.2 Emergence of Cognitive Psychology		✓			
		1.3 Methods of studying Cognitive Psychology	✓				
		1.4 Artificial Intelligence	✓				
		1.5 Cognitive Neuroscience	✓				
		1.6 Key issues		✓			
		1.5 Paradigms		✓			
2	10	**Attention and Perception**				20	LE,SE
		2.1 Attention: Theories of attention- Early theories of attention, and Feature-integration theory.	✓				

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
		2.2 Theories of perception 2.2.1 Theories of visual perception- Template matching theory, Feature analysis theory, and The recognition-by-cognition theory. 2.2.2 Theories of speech perception- The special mechanism approach, and The general mechanism approaches.	✓				
3	10	**Memory**				20	LE,SE
		3.1 Sensory memory	✓				
		3.2 Short-term memory	✓				
		3.3 Working memory	✓				
		3.4 Retrieving memories: 3.4.1 Long-term memory, 3.4.2 Reconstructive nature of memory, 3.4.3 Amnesia- Anterograde amnesia, and Retrograde amnesia	✓				
		Language development, Reasoning and Decision Making					

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
4	15	4.1 Language: 4.1.1 structure of language- Phonology, Syntax, Semantics, and Pragmatics, Bilingualism	✓			25	LE,SE
		4.2 The modularity hypothesis, and The Whorfian hypothesis		✓			
		4.3 Reasoning: types of reasoning, approaches to the study of reasoning	✓				
		4.4 Making decisions: phases of decision making, cognitive illusions in decision making	✓				
5	15	**Problem Solving and Creativity**				20	LE,SE
		5.1 Problem solving strategies: 5.1.1 The analogy approach 5.1.2 The means-ends heuristic 5.1.3 The hill climbing heuristic	✓				
		5.2 Factors that Influence Problem Solving: 5.2.1 Expertise 5.2.2 Mental set 5.2.3 Functional fixedness 5.2.4 Insight versus non-insight problems	✓				

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
		5.3 Creativity: 5.3.1 Definition 5.3.2 Approaches to creativity- Divergent production, and Investment theory of creativity.	✓				
		5.4 Task motivation- The Relationship Between Intrinsic Motivation and Creativity, and The Relationship Between Extrinsic Motivation and Creativity	✓				

❖ **LE**- Long Essay**, SE**- Short Essay

Recommended Books

i. Galotti, KM. *Cognitive Psychology In and Out of the Laboratory*. 5th ed. Sage Publication; 2014.
ii. Kellogg, RT. *Fundamentals of Cognitive Psychology*. Sage Publications; 2007.
iii. Matlin M W. *Cognition.* Wiley & Sons, Inc; 2005.
iv. Sternberg, JR. *Cognitive Psychology*. 4th ed. Thomson Wadsworth; 2007.

CLINICAL ASSESSMENT– I

Course: SEC **Credits: 6**

Duration: 180 hours

Course Outcomes:

By the end of the course, the students will be able to:

CO1: Understand administering different clinical assessments

CO2: List out the uses of different clinical assessment tools for Child Psychiatric conditions

CO3: Appraise the uses of different clinical assessment tools for adult Psychiatric conditions

CO4: Identify the uses of different clinical assessment tools for geriatric Psychiatric conditions

Course Contents

UNIT 1: Introduction

Introduction to Clinical Rating Scales, methods and goals and Screening tools for different psychiatric disorders, ethics in clinical assessment

UNIT 2: Assessments for Adult psychiatric conditions

Clinical Rating Scales and Screening tools for adult psychiatric conditions

AUDIT, state trait anxiety inventory, YBOCS, YMRS, IDEAS, GHQ

UNIT 3: Assessments for Child psychiatric conditions

Clinical Rating Scales and Screening tools for child psychiatric conditions

CARS, ADHD Rating Scale, CBCL, SDQ

UNIT 4: Assessments for Geriatric psychiatric conditions

Clinical Rating Scales and Screening tools geriatric psychiatric conditions

Dementia Rating Scale, MOCA, Geriatric Depression Scale

Recommend Books

1. Baer, L, Blais, MA. *Handbook of Clinical Rating Scales and assessment in psychiatry and Mental Health.* Humana Press; 2012.

2. Cohen, RJ, Schneider, WJ, & Tobin, R. *Psychological testing and assessment: An introduction to tests and measurement* .10th ed. McGraw-Hill Education; 2021
3. Hilsenroth, MJ, & Segal, DL. *Comprehensive handbook of psychological assessment* John Wiley & Sons; 2008
4. Kline, P. *Handbook of psychological testing*. 2nd ed. Routledge; 2013

SEMESTER VIII

PSYCHOMETRICS

Course: Core **Credits: 3**

Duration: 45 hours

Course Outcomes:

By the end of the course, the students will be able to:

CO1: Understand the fundamental concepts of measurement

CO2: Demonstrate knowledge of test construction principles, including the classification of tests, characteristics of a good test, and the general steps involved in test construction.

CO3: Apply item analysis techniques to evaluate test items,

CO4: Analyze the reliability and validity of assessment tools

CO5: Elaborate on norms and different types of norms

Course Contents:

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
		Introduction					
		1.1 Measurement and evaluation - definition, scales of Measurement	✓				

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
1	5	1.2 Difference among assessment, testing and measurement	✓			10	LE, SE
		1.3 Uses and limitations of psychological testing	✓				
		1.4 Use of computer in assessment and testing		✓			
2	5	**Test Construction**				10	LE, SE
		2.1 Classification of test	✓				
		2.2 Characteristics of a good test	✓				
		2.3 General steps of test construction	✓				
3	12	**Item Analysis**				20	LE, SE
		3.1 Meaning and types of items	✓				
		3.2 General guidelines for item writing	✓				
		3.3 Meaning and purpose of item analysis	✓				
		3.4 Item difficulty	✓				
		3.5 Index of discrimination	✓				
		3.6 Distractor analysis	✓				
		3.7 Problems of item analysis	✓				
4	8	**Reliability**				20	LE, SE
		4.1 Meaning of reliability	✓				
		4.2 Methods or types of reliability	✓				

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
		4.3 Standard error of measurement	✓				
		4.4 Factors influencing reliability of test scores	✓				
5	5	**Validity**				20	LE, SE
		5.1 Meaning of validity	✓				
		5.2 Types of validity	✓				
		5.3 Factors influencing validity	✓				
6	10	**Norms and Test scales**				20	LE, SE
		6.1 Meaning of norm	✓				
		6.2 Steps in developing norms	✓				
		6.3 Types of norms and test scales	✓				
		6.4 Criteria of good test norms		✓			

❖ **LE**- Long Essay**, SE**- Short Essay

Recommended Books

1. Anastasi, A, Urbina S. *Psychological Testing*.7th ed. Upper Saddle River, NJ: Pearson; 1997
2. Aiken LR. *Psychological testing and assessment*.11th ed. Upper Saddle River, NJ: Pearson; 2002.
3. Groth-Marnat G, Wright AJ. *Hand book of psychological assessment*. 6th ed. Nashville, TN: John Wiley& Sons; 2016
4. Kaplan RM, Saccuzzo D. *Psyhcological Testing. Principles, Applicationa and Issues.* New Delhi AsianBooks; 2001.
5. Osborne RE, Perkins DC. *Case Analysis for Abnormal Psychology-Learning to look beyond the symptoms.* Philadelphia Psy. Press; 2000.
6. Singh, A.K . *Test, Measurement and Research Methods in Behavioural Sciences.*

Bharati Bhawan Publishers; 1996.

7. Weiner IB, Stricker G, Wedgier TA. *Handbook of psychology, clinical psychology*. 2nd ed. Nashville, T N: John Wiley & Sons; 2012.

POSITIVE PSYCHOLOGY

Course: Core **Credits: 4**

Duration: 60 hours

Course Outcomes:

By the end of the course student will be able to

CO1: Comprehend the basic concepts of Positive psychology

CO2: Understand the impact of positive emotions on the over-all well-being

CO3: Integrate wellness, principles and strategies into life and thereby contribute to their holistic growth.

CO4: Understand and recognize areas of growth and build a greater sense of well-being.

Course Contents:

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
1	10	**Introduction to Positive Psychology**				15	LE, SE
		1.1 Definition, Goals and Scope of Positive Psychology.	✓				
		1.1 Historical Development of Positive Psychology		✓			
		1.3 Western and Eastern Perspectives			✓		
		Positive emotions				15	LE, SE
		2.1 Optimism – Definition, Dispositional Optimism, Explanatory style of optimism.	✓				
		2.2 Hope - Hope theory and Importance of hope.	✓				

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
2	11	2.3 Gratitude- Function of Gratitude, Benefits of Gratitude, Cultivating Gratitude	✓				
		2.4 Happiness – Theories & Determinants of Happiness, Hedonic and Eudaimonic Happiness, Seligman's PERMA model.	✓				
		2.5. Forgiveness – Meaning , Types and benefits of Forgiveness	✓				
		2.6 Resilience – Meaning, Nature and Theories of Resilience.	✓				
3	11	**Flow, mindfulness and savouring**				25	LE, SE
		3.1 Flow : Definition, Characteristics, Contexts and situations of flow	✓				
		3.2 Mindfulness: Definition, Ellen Langer's Approach to Mindfulness	✓				
		3.3 Savouring : Definition, Types of Savouring techniques	✓				
		3.4 Difference between Flow, Mindfulness and Savouring		✓			

Unit	T/L Hours	Contents	Must know	Good to know	Desirable to know	Weightage in %	Types of questions
		3.5 Influence of Flow, Mindfulness and Savouring on Wellbeing	✓				
4	13	**Character strengths and virtues**				25	LE, SE
		4.1 Definition & Significance of character strengths	✓				
		4.2 VIA classification of character strengths	✓				
		4.3 Other classification to character strengths		✓			
		4.4 Barriers to develop strengths			✓		
5	15	**Positive Clinical Psychology**				20	LE, SE
		5.1 Introduction to positive clinical psychology					
		5.2 Mindfulness in positive clinical psychology					
		5.3 Well-being therapy					
		5.4 A growth perspective on post-traumatic stress					
		5.5 Post traumatic growth					

❖ **LE**- Long Essay**, SE**- Short Essay

Recommended Books :

1. Baumgardner, S. *Positive Psychology*. Pearson; 2014.
2. Carr, A. *Positive Psychology: The Science of Happiness and Human Strengths*. New

York: Brunner – Routledg; 2004.

3. Compton,WC, Hoffman, E. *Positive Psychology*. SAGE Publications; 2019.
4. Crompton, WC. *An Introduction to Positive Psychology*. Singapore: Thomson; 2005,
5. Hefferon, K, Boniwell, I. *Positive Psychology*. McGraw- Hill Education; 2011.
6. Snyder, CR, Lopez. S. *Positive Psychology. The scientific and Practical explorations of Human Strengths*. Sage Publications; 2007.
7. Snyder, CR, Lopez, SJ. *Handbook of Positive Psychology*. New York Oxford University Press; 2005
8. Wood, AM, Johnson, J. *The Wiley handbook of positive clinical psychology: An integrative approach to studying and improving well-being*. 1st ed. John Wiley & Sons; 2016

CLINICAL ASSESSMENT - II

Course: SEC **Credits: 6**

Duration: 180 hours

Course outcomes

By the end of the course, the students will be able to:

CO1: Understand administering different clinical assessments
CO2: List out the uses of different clinical assessment tools
CO3: Give a brief understanding of various semi projective and projective tests.

Course Content

UNIT 1: Introduction

Types and uses of Clinical Assessment, Introduction to semi projective and projective tests

UNIT 2: Projective tests for children and adolescents

Draw a person Test, House Tree person Test, SCT for adolescents, Rosenweig Picture frustration test

UNIT 3: Thematic Apperception Test

Introduction, History and theoretical underpinnings of TAT

UNIT 4: Rorschach Ink Blot Test

Introduction, History and theoretical underpinnings of RIBT

Suggestive reading

- Baer, L, Blais, MA. *Handbook of Clinical Rating Scales and assessment in psychiatry and Mental Health.* Humana Press; 2012.
- Exner, JE, Erdberg, P. *The Rorschach: A comprehensive system advanced interpretation* 3rd ed. John Wiley & Sons; 2005.
- Hilsenroth, MJ, & Segal, DL. *Comprehensive handbook of psychological assessment* John Wiley & Sons; 2008
- Tomkins, SS. *The Thematic Apperception Test the theory and technique of interpretation*. Legare Street Press; 2022.

RESEARCH PROJECT

Course: RP **Credits: 8**

Course Outcomes:

By the end of the course, the students will be able to:

CO1: Develop intellectual and personal development in their chosen field by undertaking a significant practical unit of activity, having an educational value at a level commensurate with the award of degree

CO2: Apply the theoretical principles of research methods to design their own research in their area of their interest by studying existing literature, collecting, and analyzing data and presenting their own findings.

Instructions:

1. Students get opportunity in diversified Institutes e.g., Corporate Sector, Schools, NGOs and Hospitals.

2. The entire dissertation will be guided by an internal supervisor.

3. Students will submit their reports as and when the internal supervisor asks them to submit.

4. The student will discuss their work and progress every week with their internal supervisor.

5. While selecting the topic, kindly ensure that the dissertation topic selected is related to your specialization.

6. The topic selected should be related to the areas of study within the core program clearly focused so as to facilitate an in-depth approach, subject to the availability of adequate sources of information and to your own knowledge; of value and interest to you and your personal and professional development.

7. Establish the precise focus of your study by deciding on the aims and objectives of the dissertation, or formulating research questions that needs to be investigated.

8. Drawing up initial dissertation outlines considering the aims and objectives of the dissertation.

9. Work out various stages of dissertation Devising time table to ensure that all stages of dissertation are completed in time.

10. The dissertation plan provides your faculty-guide with an opportunity, at an early stage of your work, to make constructive comments and help guide the direction of your research.

11. All students must follow all the rules in submitting their dissertation.

12. The Dissertation Report format provided to you by your faculty guide should be strictly followed while conducting your research and writing your dissertation report.

Layout:

- Chapter 1: Introduction: This chapter should include Introduction to the topic, Statement Of the Problem, Objectives of the study, Significance of the study, Research Objectives and Hypothesis
- Chapter 2: Literature Review
- Chapter3: Methodology: This chapter can include Research Design, Sample Size, Variables, Tools, and Data Analysis Procedures

- Chapter 4: This chapter will include Results of the Study
- Chapter5: The results of the study should be discussed in reference to the existing literature in this chapter.
- Chapter6: Conclusion, Limitation, Social Implications References (As per APA Format)
- Appendix Plagiarism Report: The entire dissertation should be checked for Plagiarism by recognized Plagiarism checker. The last page of the plagiarism should be attached to your dissertation report. The accepted plagiarism percentage is less than 10 % and dissertation report having more than 10 % would be directly rejected.

The written text of Dissertation should be neatly typed in double line spacing on one side of paper (A4 size) and should only be hard cover bound. A declaration by the candidate that the work was done by him/her shall be included. The co-guide (wherever applicable), guide, head of the department and head of the institution shall certify the research project. Two copies of the research project shall be submitted to the university through proper channel along with a soft copy (CD), one month before the final examination

18. Annexures

Annexure 1 - Question paper layout for theory and practical examinations

Annexure 2 - Assignment rubrics

Annexure 3 - Seminar rubrics