



Universitas Negeri Surabaya Faculty of Education, Psychology Undergraduate Study Program

						SEI	MES	STEF	R LI	EAR	NIN	G P	LAN								
Courses				CODE			Со	Course Family			Credit	Weight	t	SEN	SEMESTER Compilation Date						
BASIC PSYCHOMETRY				7320103163			Compulsory Study					+	4		July 17						
AUTHORI	IZATION			SP Developer			l Pro	ogram S	Súbject	jectś			Stuc	lv Proa	ram Coo	ordinato					
			Rizky Putra Santosa, M.Si			i							Yohana Wuri Satwika, S.Psi., M.Psi.								
Learning model	ng Case Studies							1													
Program		study pro	ogram	which is ch	arged	to the	cours	se													
Learning Outcomes	Pro	Program Objectives (PO)																			
(PLO)	PO ·	· 1	Stude	ents are able to characterize basic psychometric concepts based on classical test theory and modern test theory approaches																	
	PO ·	- 2	Stude	nts are able to	chara	acterize	basic	psychor	metric	concept	s based	l on cla	assical tes	st theo	y and n	nodern te	est theor	y approa	aches		
	PLC)-PO Matri	х																		
			P.O PO-1 PO-2																		
	РО	Matrix at t	he end	l of each lea	rnina	stage	(Sub-	PO)													
					3		(- ,													
				P.O									Week								
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
			PC)-1	_			-												1	
			PC					\vdash												+	
				<i>7-</i> 2																	
Short Course Descripti	norn	This course discusses psychological measurement concepts using classical test theory and modern theory approaches, concepts of validity and reliability, norms, scoring procedures, scaling, and data analysis as a guide to compiling psychological scales with types of maximal performance and typical performance on							/, test ince.												
Reference	es Mai	n :																			
	 Azwar, S. (2015). Dasar-dasar Psikometrika (Edisi 2). Yogyakarta: Pustaka Pelajar Azwar, S. (2012). Reliabilitas dan Validitas (Edisi 4). Yogyakarta: Pustaka Pelajar Azwar, Saifuddin. (2015). Tes Prestasi Fungsi Dan Pengembangan Pengukuran Prestasi Belajar (Edisi 2). Yogyakarta: Pustaka Pelajar. Crocker, L., and Algina, J. (1986). Introduction to Classical and Modern Test Theory . New York: CBS College Publishing. Gulliksen, H. (1950). Theory of mental tests . New York: Wiley. Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing : principles, applications, & issues. Boston: Cengage Learning Lewis R. Aiken. (1985). Three Coefficients For Analyzing The Reliability And Validity Of Ratings. Educational and Psychological Measuremer 141. Retrieved from https://journals.sagepub.com/doi/abs/10.1177/0013164485451012 Millman, J., & Greene, J. (1989). The specification and development of tests of achievement and ability. In R. L. Linn (Ed.), Educational m (3rd ed., pp. 335-366). New York: Macmillan. Sumintono, B., & Widhiarso, W. (2014). Aplikasi Model Rasch untuk Penelitian Ilmu-Ilmu Sosial (edisi revisi). Cimahi: Trim Komunikata 																				
	Sup	porters:																			
		Nurwidawati, Desi. (2023). Menyusun konstruk kompetensi sosial guru menggunakan model rasch dan analisis faktor. Journal on Teacher Education 4(3), 804-815. Diunduh dari http://journal.universitaspahlawan.ac.id/index.php/jote/article/download/13130/10232 Santosa, R. P., & Kusumawardhani, D. A. (2020). Alat ukur pemeliharaan hubungan perkawinan untuk orang Indonesia: Pengujian properti Psikometr Persona: Jurnal Psikologi Indonesia, 9(1), 67–87. Diunduh dari http://jurnal.untag-sby.ac.id/index.php/persona/article/view/2928																			
Supporti lecturer	Desi	i Nurwidawa	ıti, S.Si.		M.Si.																
	Final abilities of each learning									Lear Stude	Help Learning, Learning methods, Student Assignments, [Estimated time] Assignments Assign					Assess	ment				

Final abilities of each learning stage		Eva	luation	Lea Stude	elp Learning, rning methods, ent Assignments, stimated time]	Learning materials [References]	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

1	Students are able to determine the psychometric discussion area based on the learning outcomes of this course, materials, methods and learning evaluation	1.Students are able to understand the relationship between psychometrics, the concepts of measurement, assessment and evaluation. 2.Students are able to explain the role of psychometrics (psychological measurements)	Criteria: Score 5 = very good; Score 4 = good; Score 3: moderate; Score 2: poor; Score 1: very poor Form of Assessment : Test	Contextual Instruction 3 X 50	Material: Concepts of psychological measurement, assessment and evaluation References: Azwar, S. (2015). Basics of Psychometrics Edition II. Yogyakarta: Student Library	4%
2	Students are able to create basic groupings and ways to measure psychological constructs	1.Students are able to understand the types of psychological constructs (and variables). 2.Students understand how to take measurements based on types of psychological constructs	Criteria: Score 4 = very good; Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment: Participatory Activities	Contextual Instruction 3 X 50	Material: Classification concepts and data from psychological tests. Reference: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning	4%
3	Students are able to outline approaches to classical test theory and modern test theory	Students are able to explain classical test theory Students are able to explain modern test theory	Criteria: Score 4 = very good; Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Participatory Activities	Contextual Instruction 3 X 50	Material: Classical test theory approach and modern test theory References: Azwar, S. (2015). Basics of Psychometrics Edition II. Yogyakarta: Student Library Material: Classical test theory approach and modern test theory References: Azwar, S. (2012). Reliability and Validity (4th Edition). Yogyakarta: Student Library Material: Classical test theory approach and modern test theory References: Crocker, L., and Algina, J. (1986). Introduction to Classical and Modern Test Theory. New York: CBS College Publishing.	4%
4	Students are able to explain the concept of reliability (1)	1.Students are able to understand various reliability estimates 2.Students are able to understand internal consistency techniques in psychological tests	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Test	Contextual Instruction 3 X 50	Material: Reliability estimation and internal consistency techniques References: Azwar, S. (2015). Basics of Psychometrics Edition II. Yogyakarta: Student Library	3%
5	Students are able to explain the concept of reliability (2)	1.Students are able to understand internal consistency techniques on psychological scales 2.Students are able to evaluate the reliability of psychological scale measurement results	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Test	Contextual Instruction 3 X 50	Material: Internal consistency technique for estimating the reliability of psychological scales. Reference: Azwar, S. (2015). Basics of Psychometrics Edition II. Yogyakarta: Student Library Material: Internal consistency technique for estimating the reliability of psychological scales. Reference: Azwar, S. (2005). Reliability and Validity. Yogyakarta: Student Library	4%

6	Students are able to understand the concept of psychological scale item parameters, psychological tests and evaluate them	1.Students are able to understand the parameters of psychological scale items (non-cognitive tests): item differentiation power 2.Students are able to understand the parameters of psychological test items (cognitive tests): item difficulty level, item discrimination power and distractor effectiveness	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Participatory Activities	Contextual Instruction 3 X 50	Material: Analysis of test items References: Azwar, S. (2012). Reliability and Validity (4th Edition). Yogyakarta: Student Library Material: Analysis of test items References: Azwar, Saifuddin. (2015). Achievement Test Function and Development of Learning Achievement Measurement (2nd Edition). Yogyakarta: Student Library.	3%
7	Students are able to understand the development of validity theory	Students are able to explain the concept of validity of psychological measurements	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Participatory Activities	Contextual Instruction 3 X 50	Material: Validity Theory Literature: Azwar, S. (2012). Reliability and Validity (4th Edition). Yogyakarta: Student Library Material: Validity Theory Literature: Santosa, RP, & Kusumawardhani, DA (2020). Measuring tool for maintaining marital relationships for Indonesians: Psychometric property testing. Persona: Indonesian Journal of Psychology, 9(1), 67–87. Downloaded from http://jurnal.untag-sby.ac.id/	3%
8	Midterm exam	Midterm exam	Criteria: Full marks if you do all the questions correctly Form of Assessment: Test	3 X 50 Structured Activities	Material: Literature Writing Exam : Azwar, S. (2015). Fundamentals of Psychometrics (2nd Edition). Yogyakarta: Student Library	20%
9	Students are able to understand the concept of validity evidence based on content and application	1.Students are able to explain the concept of validity evidence based on content 2.Students are able to apply the Aiken technique	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment: Participatory Activities, Tests	Contextual Instruction 3 X 50	Material: Content Validity Bibliography: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning Material: Content Validity Literature: Azwar, S. (2012). Reliability and Validity (4th Edition). Yogyakarta: Student Library	3%
10	Students are able to understand the concept of validity evidence based on the construct and its application	1. Students are able to explain the concept of construct-based validity evidence 2. Students are able to apply confirmatory factor analysis techniques 3. Students are able to apply multitrait-multimethod techniques	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Participatory Activities, Tests	Contextual Instruction 3 X 50	Material: Construct Validity Literature: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning Material: Construct Validity References: Azwar, S. (2012). Reliability and Validity (4th Edition). Yogyakarta: Student Library	3%
11	Students are able to understand the concept of validity evidence based on criteria and its application	1.Students are able to explain the concept of predictive validity 2.Students are able to apply concurrent validity	Criteria: Score 4 = very good; Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment: Participatory Activities, Tests	Contextual Instruction 3 X 50	Material: Construct Validity Literature: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning Material: Construct Validity References: Azwar, S. (2012). Reliability and Validity (4th Edition). Yogyakarta: Student Library	4%
12	Students are able to interpret the measurement results scores	Students are able to interpret the measurement results scores	Criteria: Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Practice / Performance	Contextual Instruction 3 X 50	Material: Standard scores and standardized scores References: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning	3%

13	Students are able to understand the concept of the Rasch model in psychological measurement	1.Able to explain the concept of the Rasch model in psychological measurement 2.	Criteria: Score 4 = very good; Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Participatory Activities, Practice/Performance	Case study 3 X 50	Material: Rasch modeling References: Nurwidawati, Desi. (2023). Developing a construct of teacher social competence using the Rasch model and factor analysis. Journal on Teacher Education, 4(3), 804-815. Downloaded from http://journal.universitaspahlawan.ac.id/ Material: Rasch modeling Reference: Sumintono, B., & Widhiarso, W. (2014). Applications of the Rasch Model to Research in the Social Sciences (revised ed.). Cimahi: Trim Communication	4%
14	Students are able to apply psychological measurement theory (1)	1.Able to compile and retrieve psychological measurement data 2.Able to tabulate data	Criteria: Score 4 = very good; Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment: Participatory Activities	Case Study 3 X 50	Material: Psychological Measurement Bibliography: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning	4%
15	Students are able to apply psychological measurement theory (2)	1.Able to analyze measurement data 2.Able to carry out psychometric property testing using the Rasch model	Criteria: Score 4 = very good; Score 3 = good; Score 2 = moderate; Score 1 = poor Form of Assessment : Participatory Activities	Case Study 3 X 50	Material: Psychological Measurement Bibliography: Kaplan, Robert M., & Dennis P Saccuzzo. (2018). Psychological testing: principles, applications, & issues. Boston: Cengage Learning	4%
16	Final exams	Accuracy of the procedure 2. Accuracy of item parameter estimation and scale reliability	Criteria: 1. Accuracy of the procedure 2. Accuracy of item parameter estimation and scale reliability Form of Assessment: Practical Assessment	Structured Activities	Material: Accountability Report References: Azwar, S. (2015). Fundamentals of Psychometrics (2nd Edition). Yogyakarta: Student Library	30%

Evaluation Percentage Recap: Case Study

Evaluation i crocintage recoup. Case C							
No	Evaluation	Percentage					
1.	Participatory Activities	29%					
2.	Practical Assessment	30%					
3.	Practice / Performance	5%					
4.	Test	36%					
		100%					

Notes

- 1. Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- 2. The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- Program Objectives (PO) are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence. 6.
- Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.

 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of
- achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.