

# **PSYCHOMETRICS**

Credit points	6 CP				
Study course annotation	Conversance with the assessment of questionnaires and tests, with psychological methods' validity and reliability, with psychological measures elaboration, adaptation and verification.				
Aim of the study course	Acquisition of understanding on study methods' elaboration and verification, assessment of research tools and their improvement.				
Objectives of the			ons of scales of measurement;		
course	<ul> <li>Initiate assess the</li> </ul>	with inventories and ese features using qua	tests reliability and validity, who alitative and quantitative analysis o inventories and tests' elaboration	5,	
	]	Knowledge	Skills	Competences	
Study course results	<ul> <li>Main concepts and notions in psychometrics.</li> <li>Main psychometric variables of tests and inventories.</li> <li>Statistical tests in psychology.</li> <li>Adaptation and verification of tests and questionnaires.</li> </ul>		<ul> <li>Skills for qualitative and quantitative analysis of data on nominal scale using χ² test for associations.</li> <li>Skills for verification of test's construct validity.</li> <li>Skills for verification of test's reliability.</li> <li>Skills for verification of test's evident validity.</li> <li>Skills for objective analysis andcomparison of different</li> </ul>	<ul> <li>Ability to identify appropriate scale for measurement.</li> <li>Ability to combine qualitative and quantitative analysis for verification of statistical hypotheses.</li> <li>Ability to identify and apply the necessary type of measures' validity verification.</li> <li>Ability to identify and apply the necessary type of measures' reliability verification</li> </ul>	
Study course content		Topics			
	1	The subject-matter of psychometrics and its			
	2	history.			
	3	Main concepts and notions.  Scales of measurement.			
	4				
	5	Qualitative and quantitative analysis of			
	6	narratives. X2 test.			
	7	Types of measures.  Elaboration and adaptation of measures.			
	8 9	Validity of measures.			
		Reliability of measures. Cronbah' α.			
	10	Statistical hypotheses.			
	12	Factor analysis in psychometrics.			
	13	Construct validity.			
	13	Evident validity.			
	15	Statistical tests (criteria) and its choice.			
Form of assessment:	Exam	_ Statistical tests (Cl	norm, and its choice.		
rothi of assessment:	LAAIII				



#### **BALTIC INTERNATIONAL ACADEMY**

#### **Obligatory literature:**

1. Rust, J., Kosinski, M., & Stillwell, D. (2020). Modern

Psychometrics: The Science of Psychological Assessment . 4th

Edition. Routledge.

2. Furr, M.R., & Bacharach, V.R. (2008). Psychometrics: An Introduction. Los Angelos, CA:

SAGE Publications.

3. Hersen, M. (ed) (2003). Comprehensive handbook of psychological assessment. Hoboken,

N.J.: J. Wiley & Sons.

Breslavs, G. (2009-2023). Psihometrika. Lekcijas kurs. Power Point programmā

### **Further reading list:**

- 1. Nunnally, J.C. & Bernstein, I.H. (1994). Psychometric theory. 3rd ed. New York: McGrow-Hill.
- 2. Riessman, C. K. (2008). Narrative Methods for the Human Sciences. Los Angelos, CA: SAGE Publications.
- 3. Breslavs, G. (kopā ar Ābele, Derjabo, Pišinska, & Roze). (2008). Vai mēs esam iecietīgi Sabiedrības etniskās iecietības monitoringa metodikas izveide. Rīga, Salus.
- 4. Kaplan, R.M., & Saccuzzo, D.P. (2010). Psychological Testing: Principles, Applications and Issues. (8th ed.). Belmont, CA: Wadsworth, Cengage Learning

## Other sources of information (electronic journals):

- 1. Psychometrika,
- 2. Applied Psychological Measurement,
- 3. Journal of Personality Assessment,
- 4. Psychological Assessment

Changes and additions to the program and literature list are possible during the study process