

Course title: Introduction to Research Methods in Psychology (30 hours), Instytut Psychologii PAN, 2021/2022

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Goals and content

This will be a 30-hour survey course devoted to research methods in psychology. We will cover a wide range of topics ranging from the basics of scientific method and hypothesis testing in psychology, through the principles of statistical data analysis, to the recent challenges regarding reproducibility of research results. The questions of ethics in conducting psychological research will also be discussed.

Readings

- Thanks to the Diener Education Fund, all required readings for this course have been compiled into a 195-page e-book entitled "Research Methods- Introduction to Research Methods in Psychology, Doctoral Program IP PAN, 2020". The book is free for all students enrolled in the course and is available from the IP PAN homepage.
- Wojciszke, B. (2004). Systematyczne modyfikowane autoreplikacje: logika programu badań empirycznych w psychologii, W: J. Brzeziński (red.), Metodologia badań psychologicznych. Wybór tekstów. warszawa: Wydawnictwo Naukowe PWN.

Class schedule

The course is divided into 10 3-hour meetings hosted via google Classroom. The meetings starts at 8:00 a.m..

No. 1	Date	Topic	Teksty
1	6.12	Scientific Method & research process	None
2	13.12	Research ideas & hypotheses	Stroebe, W., Postmes, T., & Spears, R. (2012). Scientific Misconduct and the Myth of Self-Correction in Science. <i>Perspectives on Psychological Science</i> , 7(6), 670–688. https://doi.org/10.1177/1745691612460687
3	20.12	Defining and measuring variables	Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. <i>Science</i> , 349(6251), aac4716–aac4716. https://doi.org/10.1126/science.aac4716
4	03.01	Sampling strategies	Henrich, J., Heine, S., & Norenzayan, A. (2010). The weirdest people in the world? <i>Behavioral and Brain Sciences</i> , 33(2-3), 61-83. doi:10.1017/S0140525X0999152X
5	10.01	Experimental Designs I	TBA
6	17.01	Experimental Designs II	Boot, W. R., Simons, D. J., Stothart, C., & Stutts, C. (2013). The Pervasive Problem With Placebos in Psychology: Why Active Control Groups Are Not Sufficient to Rule Out Placebo Effects. <i>Perspectives on</i>

			<i>Psychological Science</i> , 8(4), 445–454. https://doi.org/10.1177/1745691613491271
7	24.01	Null hypothesis significance testing (NHST)	Gigerenzer, G. (2004). Mindless statistics. <i>Journal of Socio-Economics</i> , 33(5), 587–606. https://doi.org/10.1016/j.socec.2004.09.033
8	31.01	The Role of Statistics in the Research Process	Wicherts, J. M., Bakker, M., & Molenaar, D. (2011). Willingness to share research data is related to the strength of the evidence and the quality of reporting of statistical results. <i>PLoS ONE</i> , 6(11), 1–7. https://doi.org/10.1371/journal.pone.0026828
9	07.02	Replicability & SMAR strategy	Stroebe, W. (2016). Are most published social psychological findings false? <i>Journal of Experimental Social Psychology</i> , 66, 134–144. https://doi.org/10.1016/j.jesp.2015.09.017
10	14.02	Ethics in research	https://www.apa.org/ethics/code/ethics-code-2017.pdf

Note: this is a preliminary syllabus; subject to change