

Course Name	Field of Study	Year	Required / Recommended Reading	Coursebook title	Authors	Publisher	Year of Publication
Advanced methods of drug design	Doctoral School		2 Required	An introduction to medicinal chemistry	Graham L. Patrick	Oxford University Press	2023
Advanced Researcher Workshop – Rank of Scientific Evidence	Doctoral School		2 Required	How to Read and Critique a Scientific Research Article	Foong May Yeong	World Scientific	2014
Advanced Researcher Workshop – Rank of Scientific Evidence	Doctoral School		2 Recommended	How to read a paper : the basics of evidence based medicine	Greenhalgh T.	Blackwell Publishing	2010
Biobanking	Doctoral School		2 Required	Manual of Biobank Quality Management	Agnieszka Matera-Witkiewicz , Joanna Gleńska-Olender , Izabela Uhrynowska-Tyszkiewicz , Małgorzata Witoń , Karolina Zagórska , Katarzyna Ferdyn , Michał Laskowski , Patrycja Sitek , Błażej Marciński , Jakub Pawlikowski , Dominik Strapagiel	Springer Cham	2023
Bioprinting and tissue engineering, digital technologies in science	Doctoral School		2 Required	3D Bioprinting: Principles and Protocols: 2140	Crook, Jeremy M.	Springer-Verlag New York Inc.	2022
Bioprinting and tissue engineering, digital technologies in science	Doctoral School		2 Required	3D Printing: Applications in Medicine and Surgery Volume 2	Dr. Jasjit Suri, PhD, MBA	Elsevier	2022
Bioprinting and tissue engineering, digital technologies in science	Doctoral School		2 Recommended	Biomaterials in Tissue Engineering and Regenerative Medicine: From Basic Concepts to State of the Art Approaches	Dr. Birru Bhaskar, Dr. P. Sreenivasa Rao	Springer	2021
Biostatistics	Doctoral School		2 Required	Oxford handbook of medical statistics	Peacock Janet L.	Oxford University Press	2020
Biostatistics	Doctoral School		2 Required	Principles of Biostatistics	Marcello Pagano, Kimberlee Gauvreau, Heather Mattie	CRC Press	2022
Biostatistics	Doctoral School		2 Recommended	Intuitive Biostatistics: A Nonmathematical Guide to Statistical Thinking (4th ed.)	Motulsky, H.	Oxford University Press	2017
Building resilience and well-being in coping with challenges	Doctoral School		2 Required	Psychology and Life: Pearson New International Edition Gerrig Richard J. Pearson New International Edition 2013	Richard J. Pearson	New International Edition	2013
Change management	Doctoral School		2 Required	Managing Change: From Health Policy to Practice	Ewan Ferlie, Susanne Boch Waldorff, Anne Reff Pedersen, Louise Fitzgerald	Palgrave Macmillan	2015
Change management	Doctoral School		2 Required	Understanding and Managing Change in Healthcare: A Step-by-Step Guide	Jaqui Hewitt-Taylor	Bloomsbury Publishing PLC	2013
Change management	Doctoral School		2 Recommended	Successful Change Management in Health Care Being Emotionally and Cognitively Ready	Annette Chowthi-Williams, Geraldine Davi	Routledge	2021
Coaching, mentoring, tutoring	Doctoral School		2 Required	Coaching and Mentoring. Theory and Practice	Paul Stokes, Robert Garvey	Sage Publications	2021
Coaching, mentoring, tutoring	Doctoral School		2 Required	Understanding Coaching and Mentoring	Hale Richard	Publishing MX	2016
Collaboration in a multicultural project team	Doctoral School		2 Required	Working Across Cultures	John Hooker	Stanford Business Books	2003
Commercialization of scientific research results step by step	Doctoral School		2 Required	The Act of 20 July 2018 – Law on Higher Education and Science, as amended (Journal of Laws of 2023, item 742).	Sejm RP	Dziennik Ustaw RP	2018
Commercialization of scientific research results step by step	Doctoral School		2 Recommended	Recommendations for Changes in the Polish System of Technology Transfer and Knowledge Commercialization,(available online).	Krzysztof Matusiak and Jacek Guliński	PARP	2010
Communication, self-presentation, and social media	Doctoral School		2 Required	Don't Be Such a Scientist: Talking Substance in an Age of Style	Randy Olson	Island Press	2009
Current and emerging issues in healthcare	Doctoral School		2 Required	Cybersecurity in Healthcare: New Threat to Patient Safety. Cureus. 2025 May 6;17(5)	Aldosari B.	Cureus.	2025
Current and emerging issues in healthcare	Doctoral School		2 Required	Towards secure and trusted AI in healthcare: A systematic review of emerging innovations and ethical challenges.	Mohsin Khan M, Shah N, Shaikh N, Thabet A, Alrabayah T, Belkhaier S.	Int J Med Inform. 2025 Mar;195:105780.	2025

Current and emerging issues in healthcare	Doctoral School	2	Recommended	Cybersecurity and Compliance in Clinical Trials: The Role of Artificial Intelligence in Secure Healthcare Management.	Gomase VS, Ghatule AP, Sharma R, Sardana S.	Rev Recent Clin Trials. 2025;20(4):332-351.	2025
Designing teaching and learning using medical simulation	Doctoral School	2	Required	Practical aspects of the use of medical simulation in the teaching of medical and communication skills	Perlak M., Ubych A., Barglik K., Benesz M., Stawicka K., Król S., Stasiowski M., i Lukas W.	„Postępy Nauk Medycznych”, 2018, t.31, s. 217–220.	2018
Designing teaching and learning using medical simulation	Doctoral School	2	Required	Simulation-based medical teaching and learning.	Al-Elq AH.	J Family Community Med. 2010 Jan;17(1):35-40. doi: 10.4103/1319-1683.68787. PMID: 22022669; PMCID: PMC3195067	2010
Designing teaching and learning using medical simulation	Doctoral School	2	Recommended	MEDICAL SIMULATION: The Vision of Learning in Healthcare.	Sivrikaya, GU., and Gonenli, MG.	Medical Research Archives, [online] 12(12). https://doi.org/10.18103/mra.v12i12.6122	2024
Doctoral seminar	Doctoral School	2	Required	Literature related to the profile of the unit carrying out the research	Literature related to the profile of the unit carrying out the research	Literature related to the profile of the unit carrying out the research	2026
Evidence-Based Practice (EBP) in clinical work, education, and healthcare management	Doctoral School	2	Required	Evidence-based medicine : how to practice and teach EBM	Straus Sharon, Glasziou Paul, Richardson W.Scott, Haynes R. Brian	Elsevier	2019
Evidence-Based Practice (EBP) in clinical work, education, and healthcare management	Doctoral School	2	Recommended	Evidence-Based Practice in Nursing & Healthcare: A Guide to Best Practice	Ellen Fineout-Overholt, Bernadette Mazurek Melnyk	Wolters Kluwet Health	2023
Grant reporting and accounting	Doctoral School	2	Required	Regulations on awarding funding for research tasks funded by the National Science Centre as regards research projects	-	National Science Centre	2026
Group mentoring	Doctoral School	2	Required	Research Design: Qualitative, Quantitative, and Mixed Methods Approaches	John W. Creswell, J. David Creswell	SAGE Publications	2022
Group mentoring	Doctoral School	2	Required	SCIENTIFIC RESEARCH METHODOLOGY	Drewes Alejandro	Our Knowledge Publishing	2021
How to reliably and effectively assess students' knowledge, skills, and attitudes?	Doctoral School	2	Required	Practical Guide to the Evaluation of Clinical Competence 2nd Edition	Eric S. Holmboe MD MACP FRCP, Steven James Durning MD PhD MACP	Elsevier	2017
How to reliably and effectively assess students' knowledge, skills, and attitudes?	Doctoral School	2	Required	The Eight Roles of the Medical Teacher The purpose and function of a teacher in the healthcare professions	Ronald M. Harden, Pat Lilley	Elsevier	2018
How to reliably and effectively assess students' knowledge, skills, and attitudes?	Doctoral School	2	Recommended	Grading for Growth: A Guide to Alternative Grading Practices that Promote Authentic Learning and Student Engagement in Higher Education	David Clark, Robert Talbert	Routledge	2023
How to start your own business?	Doctoral School	2	Required	Business Administration An Introduction for Managers and Business Professionals	Kwame Adom, Robert Hinson, Enoch Mintah, Theresa Obuobisa-Darko	Taylor & Francis	2023
How to start your own business?	Doctoral School	2	Required	Harvard Business Review	Marc Andreessen, Reid Hoffman et all.	Rebis	2023
How to start your own business?	Doctoral School	2	Recommended	Big Ideas. The Business Book	Dorling Kindersley	Dorling Kindersley	2014
Intellectual property law and patenting	Doctoral School	2	Required	Intellectual Property Law	Starvolula Karapapa, Luke McDonagh	Oxford University Press	2019
Intellectual property law and patenting	Doctoral School	2	Required	Law of Copyright and Related Rights. Industrial Property Law	Aleksandra Auleytner, Rafał Kłoczko, Jarosław Konecko	C.H.Beck	2017
Intellectual property law and patenting	Doctoral School	2	Recommended	Intellectual Property and Competition Law	Steven D. Anderman, Ariel Ezrachi	Oxford University Press	2011
Internship	Doctoral School	2	Required	Oxford handbook of medical education in practice	Finn Gabrielle and others (red.)	Oxford University Press	2025
Interprofessional education and collaborative learning	Doctoral School	2	Required	INTERPROFESSIONAL EDUCATION HANDBOOK	Jenny Ford, Richard Gray	Centre for the Advancement of Interprofessional Education	2017
Next-generation sequencing and karyotyping	Doctoral School	2	Required	An International System for Human Cytogenomic Nomenclature	Ros J. Hastings, Sarah Moore	Karger Verlag	2024
Next-generation sequencing and karyotyping	Doctoral School	2	Recommended	Genetics analysis of genes and genomes	Hartl Daniel L., Cochrane Jones Bruce J.	Bartlett Publ Ine	2017

Next-generation sequencing and karyotyping	Doctoral School	2	Recommended	Oxford desk reference : clinical genetics and genomics	Firth Helen V., Hurst Jane A.	Oxford Univ Press	2017
Organizational culture	Doctoral School	2	Required	Organizational Culture	Marie Carasco	KOGAN PAGE LTD	2011
Organizational culture	Doctoral School	2	Required	Organizational Culture and Leadership	Edgar H Schein, Peter A Schein	John Wiley & Sons	2017
Organizational culture	Doctoral School	2	Recommended	Diagnosing and Changing Organizational Culture	Quinn Robert E., Cameron Kim S.	Wiley John&Sons Inc.	2011
Principles of cultural adaptation and psychometric validation of research tools (psychometrics, sociometrics, clinimetrics)	Doctoral School	2	Required	The Wiley handbook of psychometric testing	Paul Irwing, Tom Booth, David J. Hughes (Eds.)	John Wiley & Sons Ltd.	2018
Principles of cultural adaptation and psychometric validation of research tools (psychometrics, sociometrics, clinimetrics)	Doctoral School	2	Recommended	Practical Psychometrics: A Guide for Test Users.	Benjamin J Lovett	Routledge	2023
Programming (Python, R, MATLAB) for researchers	Doctoral School	2	Required	Learning Python: Powerful Object-Oriented Programming, 6th Edition	Mark Lutz	O'Reilly	2025
Programming (Python, R, MATLAB) for researchers	Doctoral School	2	Required	Python for Data Analysis: Data Wrangling with pandas, NumPy, and Jupyter, 3rd Edition	Wes McKinney	O'Reilly	2023
Programming (Python, R, MATLAB) for researchers	Doctoral School	2	Recommended	Practical Statistics for Data Scientists: 50+ Essential Concepts Using R and Python, 2nd Edition	Peter Bruce, Andrew Bruce, Peter Gedeck	O'Reilly	2023
Research and teaching activities	Doctoral School	2	Required	Evidence-Based Medicine: How to Practice and Teach It	Sharon E. Straus, Paul Glasziou, W. Scott Richardson, R. Brian Haynes	Elsevier Health Sciences	2018
Research and teaching activities	Doctoral School	2	Required	Scientific publishing and presentation: A practical guide with advice on doctoral studies and career planning	Claus Ascheron	Springer Berlin, Heidelberg	2023
Research and teaching activities	Doctoral School	2	Recommended	Oxford Textbook of Medical Education	Kieran Walsh	OUP Oxford	2016
Research Team - Building, Supporting, and Managing	Doctoral School	2	Required	Harvard Business Review. Leader's Handbook	Opracowanie zbiorowe	Ingram Publisher Services	2019
Validation of analytical methods	Doctoral School	2	Required	Calibration and Validation of Analytical Methods - A Sampling of Current Approaches	Mark Thomas Stauffer	Springer	2018
Validation of analytical methods	Doctoral School	2	Required	Development and Validation of Analytical Methods	Christopher M. Riley, Thomas W. Rosanske	Marck and Spencer	1996
Virtual and augmented reality in medical research	Doctoral School	2	Required	Virtual Reality in Medicine	Riener R., Harders M	Springer London	2012
Virtual and augmented reality in medical research	Doctoral School	2	Recommended	Virtual, Augmented Reality and Serious Games for Healthcare 1	Ma M., Jain L.C., Anderson P	Springer	2014
Working in cloud computing environments and data management	Doctoral School	2	Required	AWS for Solutions Architects: Design and scale secure AWS architectures with GenAI strategies... (3rd Ed.)	Saurabh Shrivastava, Neelanjali Srivastav, et al.	Packt Publishing	2025
Working in cloud computing environments and data management	Doctoral School	2	Required	Data Science on AWS: Implementing End-to-End, Continuous AI and Machine Learning Pipelines	Chris Fregly, Antje Barth	Helion	2022
Working in cloud computing environments and data management	Doctoral School	2	Recommended	Fundamentals of Data Engineering: Plan and Build Robust Data Systems	Joe Reis, Matt Housley	Helion	2023