<table>
<tr><td>Course title</td><td colspan="4">Social Sciences and Research I</td></tr>
<tr><td>Course code</td><td colspan="4">MD-103</td></tr>
<tr><td>Course type</td><td colspan="4">Required</td></tr>
<tr><td>Level</td><td colspan="4">1st cycle: undergraduate</td></tr>
<tr><td>Year / Semester</td><td colspan="4">Year 1 / Semester 1 (Fall)</td></tr>
<tr><td>Teacher’s name</td><td colspan="4">Costas Constantinou</td></tr>
<tr><td rowspan="2">ECTS</td><td rowspan="2">10</td><td>Large Group Learning per Week</td><td>Tutorials per Week</td><td>Small group work per Week</td></tr>
<tr><td>4</td><td>3</td><td>1</td></tr>
<tr><td>Course purpose and objectives</td><td colspan="4">1. Describe the relevance of Medical Sociology in medical practice.
2. Describe how lay health beliefs influence health behaviours.
3. Discuss societal perceptions of chronic illness, the body, and the impact of stigma.
4. Explain various areas of Psychology and their connection to medicine.
5. Describe major psychological theories relating to child development, sensing, memory, intelligence, and language acquisition.
6. Discuss the Biomedical and Biopsychosocial approaches to medicine and their significance in modern healthcare.
7. Define Epidemiology and Public Health and describe their significance in healthcare.
8. Compare the advantages and disadvantages of descriptive and analytic epidemiology.
9. Identify suitable research designs for epidemiological inquiries.
10. Explain the role of Biostatistics in medical research.
11. Apply summary statistics appropriate for descriptive data analysis.
12. Calculate basic summary statistics.
13. Describe the scope of bioethics and medical ethics and their relevance.
14. Articulate the importance of ethical reasoning and interdisciplinary teamwork.
15. Analyse the relationship between ethics, health law, and guidelines in health practice.
16. Explain the process of ethical reasoning in medical contexts.
17. Articulate the principles of patient autonomy and informed consent.
18. Assess the concept of capacity in patients and its implications.
19. Explore confidentiality issues, including challenges associated with social media.
20. Discuss ethical issues in the care of children and adolescents.</td></tr>
</table>

	21. Assess the impact of digitalization on healthcare disparities and the relevance of digital psychology. 22. Discuss implications of digital data collection on patient rights. 23. Evaluate ethical uses of AI in medical decision-making and identify potential risks. 24. Illustrate the benefits and limitations of digitalization in medical research and the application of machine learning algorithms.
Learning outcomes	**<u>Theme 1: Introduction to social and behavioural sciences of health and illness, epidemiology and public health</u>** 1. Define Sociology and apply "Sociological Imagination". 2. Describe the scope of Medical Sociology, and its usefulness in medical practice. 3. Define diversity and explain why diversity is important for groups. 4. Describe the skills or behaviours necessary for working appropriately and effectively within diverse groups. 5. Describe the different areas of Psychology. 6. Describe the way by which Psychology is linked to Medicine. 7. Define the Biomedical and the Biopsychosocial approaches to medicine. 8. Define the terms `Epidemiology' and `Public Health" and understand their role in medicine. 9. Describe the three Pillars of Public Health Practice. 10. Outline the value of studying health and disease in populations. 11. Explain "Biostatistics" and their role in medicine. 12. Describe the emergence and scope of bioethics and medical ethics and explain its role in medicine and society 13. Discuss the relationship between ethics, health law and professional guidelines and the importance of context 14. identify ethical challenges and dilemmas in contemporary clinical practice 15. Explain the significance of ethical reasoning and ethics support 16. Explain the significance of working in multi-disciplinary teams **<u>Theme 2: Core bioethical concepts and ethical reasoning</u>** 17. Describe ethical reasoning and doing ethics in practice. 18. Describe the ethical concepts of autonomy, dignity, medical benefit and patient best interests. 19. Distinguish between moral, human and legal rights to health and describe its relevance to ethical medical practice. 20. Outline the key ethical principles of healthcare ethics. 21. Practise the four pillars of medical ethics.

	Theme 3: Introduction to basic statistics and epidemiological research 22. Compare and contrast the use, advantages and disadvantages of descriptive and analytic epidemiology. 23. Identify appropriate study designs to answer specific epidemiological research questions. 24. Outline the different types of variables in biomedical research. 25. Determine the applicability of different summary statistics for descriptive analysis of data according to data distribution. 26. Calculate basic summary statistics, such as mean, median, standard deviation, interquartile range, proportions. 27. Describe public health ethics as a distinct field within health ethics 28. Outline the values and key principles of public health ethics 29. Practise critical analysis of health promotion campaigns and interventions 30. Explain the ethical requirements and guidelines for medical research 31. Describe the common ethical issues arising from medical and public health research 32. Practise the ethical principles of medical and public health research **Theme 4: The mind, behaviour and social context of health and illness** 33. Describe specific lay health beliefs. 34. Explain how health beliefs affect illness behaviour. 35. Describe the characteristics and social meaning of chronic illness. 36. Outline the main features of the concepts "the sick role" and “biographical disruption.” 37. Practise the sociological principles of lay health beliefs and chronic illness. 38. Explain the Basic Structure and function of the Nervous system. 39. Describe the basics of Neural Communication. 40. Outline the link between biology and behaviour. **Theme 5: Stigma and the human body** 41. Describe the mechanism of labelling and stigmatisation. 42. Explain how patients live with a stigmatising condition. 43. Practise the sociological principles of labelling and stigma. 44. Explain the concepts “embodiment” 45. Outline the features of the concept of “body project”. 46. Practise the sociological principles of the body. 47. Practise the ethical principles of respect for autonomy, privacy and dignity in healthcare.

Theme 6: Senses and integration of senses

48. Outline the main functional theories of vision.
49. Outline the main functional theories of audition.
50. Outline the main theories of somatosensation.
51. Outline the main theories of the functions of taste and smell.

Theme 7: Perception, attention and memory

52. Outline the role of the different types of perception.
53. Describe the main theories of visual perception.
54. Describe the main theories of auditory perception.
55. Outline the main types of attention.
56. Describe the main theories of attention.
57. Explore clinical applications of attentional deficits.
58. Outline the main types of memory.
59. Describe the main theories of memory.
60. Explore clinical applications of memory functions.

Theme 8: Child Development from birth to adolescents

61. Describe the main theories of Child Development from birth to adolescence.
62. Outline the main stages of cognitive development.
63. Outline the main theory of moral development.
64. Outline the main findings regarding perception of illness from birth to adolescence.
65. Describe the concept of attachment.
66. Outline core ethical issues involved in the care of children and adolescents
67. Describe legal issues in the care of minors (children and adolescents), in comparative country perspective.
68. Practise critical analysis of decision-making with children patients.

Theme 9: Language and Language Development

69. Outline the main theories of early stages of language acquisition.
70. Describe the main theories of language development.
71. Outline the theories connecting language and cognition.

Theme 10: Ethical-Legal aspects of Consent, Capacity & Confidentiality in medical practice

72. Explain the primacy of patient autonomy and consent in ethical and legal terms
73. Define ‘Informed Consent' and list the steps as to how it is obtained in medical practice

	74. Describe the legal concept of 'Capacity' and the process of assessing the capacity of a patient 75. Practice consent guidelines with reference to challenges facing qualified doctors and medical students 76. Explain the duty of confidentiality in medical practice and the importance of respect for patient privacy 77. Outline ethical and legal justifications for breaching confidentiality 78. Describe confidentiality challenges in the use of social media 79. Practice confidentiality rules/guidelines with reference to the challenges facing qualified doctors and medical students 80. Familiarise with professional guidelines for ethical medical practice and international codes of conduct for medical practitioners and medical students. 81. Practice ethical principles and guidelines for medical students. **<u>Theme 11: Digital Health and Ethical Considerations</u>** *Digital Health/Medical Ethics* 82. Analyze the ethical challenges arising from the digitalization of medical practice and research. 83. Discuss the implications of digital data collection methods on patient consent, privacy, and autonomy. 84. Identify the principles guiding the ethical use of digital tools and the importance of maintaining human oversight. 85. Evaluate the ethical considerations of using AI in decision-making for medical diagnostics and treatment. 86. Identify and categorise AI tools and their functions in the context of learning and research 87. Recognize the practical and ethical pitfalls of incorrect usage of AI 88. Understand, through hands-on experience, an effective and efficient use of AI tools in learning and research.		
Prerequisites	None	**Required**	None
Course content	**Themes:** 1. Introduction to social and behavioural sciences of health and illness, epidemiology and public health. 2. Core bioethical concepts and ethical reasoning. 3. Introduction to basic statistics and epidemiological research. 4. The mind, behaviour and social context of health and illness. 5. Stigma and the human body. 6. Senses and integration of senses.		

	7. Perception, attention and memory. 8. Child Development from birth to adolescents. 9. Language and Language Development. 10. Ethical-Legal aspects of Consent, Capacity & Confidentiality in medical practice. 11. Digital Health and Ethical Considerations
Teaching methodology	• Lectures • Tutorials • Flipped learning • Directed Self-study • Group Work
Bibliography	**Required Textbooks/Reading:** ***Psychology***

Authors	Title	Edition	Publisher	Year	ISBN
Susan Ayers, Richard de Visser	Psychology for Medicine and Healthcare	3rd Edition	Sage	2021	9781526496812

Sociology

Authors	Title	Edition	Publisher	Year	ISBN
Barry Anne-Marie, Yuill Chris	Understanding the Sociology of Health	5th Edition	Sage	2021	9781526497536

Medical Ethics

Authors	Title	Edition	Publisher	Year	ISBN
Dominic Wilkinson, Jonathan Herring, Julian Savulescu (eds)	Medical Ethics and Law: A Curriculum for the 21st Century	3rd Edition	Elsevier	2019	9780702075964
Williams, John R.	The WMA Medical Ethics Manual	3rd Edition	World Medical Association	2015	9789299007907

Research Methods

Authors	Title	Edition	Publisher	Year	ISBN
Petrie A., Sabin C.	Medical Statistics at a Glance	4th Edition	Wiley-Blackwell	2020	9781119167815

Recommended Textbooks/Reading:

Psychology

Authors	Title	Edition	Publisher	Year	ISBN
Karen L. Fingerman, Cynthia A. Berg, Jaqui Smith, Toni C. Antonucci	Handbook of Life Span Development	-	Springer	2011	9780826110794
John Sommers-Flanagan, Rita Sommers-Flanagan	Counselling and Psychotherapy : Theories in Context and Practice, 3rd Edition	3rd Edition	John Wiley and Sons	2018	9781119473312
Carrie Winterowd, Aaron T. Beck, Daniel Gruener	Cognitive Therapy with Chronic Pain Patients	-	Springer Publishing Company	2003	9780826145956

Sociology

Authors	Title	Edition	Publisher	Year	ISBN
Constantinou S Costas	Applied Sociology of Health and Illness: A Problem-Based Learning Approach	2nd Edition	Taylor & Francis, CRC Press	2023	9781032188652
Nettleton Sarah	The Sociology of Health and Illness	4th Edition	Polity Press	2021	9781509512744

Medical Ethics

Authors	Title	Edition	Publisher	Year	ISBN
Herring, J.	Medical Law and Ethics	9th	Oxford University Press	2022	9780192856562
Tom L. Beauchamp, James F. Childress	Principles of Biomedical Ethics	8th	Oxford University Press	2019	9780190640873
Tony Hope, Michael Dunn	Medical Ethics: A Very Short Introduction	2nd	Oxford University Press	2019	9780198815600

Research Methods

Authors	Title	Edition	Publisher	Year	ISBN
Charles H. Hennekens	Epidemiology in Medicine	-	Lippincott, Williams & Wilkins	1987	0316356360, 9780316356367
Hurley, W.L. et al.	Research Methods: A Framework for Evidence-Based Clinical Practice	-	Lippincott, Williams & Wilkins	2011	9780781797689
Babu, Ajit N.	Clinical Research Methodology and Evidence-Based Medicine: The Basics	-	Anshan Limited UK	2008	9781905740901
Kathryn Jacobsen	Introduction to Health Research Methods	3rd Edition	Jones & Bartlett Publishers	2021	9781284197563

Assessment

- Midterm exam (30%)
- Final exam (60%)
- Coursework (10%)

Language

English