<table>
<tr><td>Course title</td><td colspan="4">Social Sciences and Research II</td></tr>
<tr><td>Course code</td><td colspan="4">MD-106</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 2 (Spring)</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. Discuss the social determinants of health, including the relationship between social class and health, focusing on factors influencing mortality and morbidity rates.
2. Explain the models of doctor-patient relationships and the importance of communication skills in medical practice.
3. Describe the relationship between gender and health, including differences in mortality and morbidity, and explain healthcare disparities in the LGBTQ+ community
4. Explain the link of ethnicity to health outcomes.
5. Identify the features of institutionalized racism and its impact on health.
6. Describe demographic transitions and their implications for healthcare.
7. Identify the needs of informal caregivers and the social aspects of dying, death, and bereavement.
8. Discuss the process of medicalization of death and the concept of a "good death."
9. Identify factors affecting the psychological impact of hospitalization on patients.
10. Describe coping strategies for illness and disability, emphasizing psychological factors.
11. Describe the characteristics of adulthood and the interconnection between psychological and biological aspects.
12. Analyse the impact of mid-life crises and the role of marriage and family in individual development.
13. Outline the role of psychological factors in the development of illnesses and psychosomatic problems.
14. Define disease prevalence, incidence, and mortality rates, and apply these concepts to quantify disease frequency.
15. Explain risk and protective factors for diseases, classifying them as modifiable or non-modifiable.
16. Define qualitative research and describe methodologies for collecting and analysing qualitative data.</td></tr>
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	17. Explain data collection processes using digital tools and considerations for data quality and privacy. 18. Discuss the dynamics of vulnerable trust in doctor-patient interactions and the notion of duty of care. 19. Describe theories of bereavement and ethical-legal issues in the care of older patients. 20. Justify the importance of diversity in healthcare and practice ethical medical principles for diverse populations. 21. Discuss the concept of justice in health rights and challenges related to social and health inequalities. 22. Describe intervention strategies and resource allocation in healthcare policy and analyse ethical challenges in resource distribution. 23. Discuss the significance of shared decision-making and ethical principles in clinical teamwork. 24. Discuss ethical challenges posed by advances in medical knowledge and personalized medicine. 25. Explain ethical-legal considerations in reproduction and termination of pregnancy, emphasizing reproductive autonomy. 26. Discuss the importance of different perspectives on the status of the embryo or foetus. 27. Discuss ethical and legal challenges in end-of-life care and the types of euthanasia and physician-assisted suicide. 28. Discuss ethical implications of defining brain death concerning organ donation practices. 29. Critically assess the ethical implications of digitalization in medical practice and its impact on healthcare disparities
Learning outcomes	**<u>Theme 1: Social determinants of health and illness</u>** 1. Describe the association between gender and health and illness. 2. Explain the differences in mortality and morbidity between men and women. 3. Explain the healthcare disparities in the LGBTQ+ community. 4. Explain how ethnicity is linked with ill health. 5. Describe the main features of “institutionalised racism” and how racism impacts health. 6. Explain the relationship between social class and illness. 7. Explain the reasons why social class is associated with high mortality and morbidity rates. 8. Define and describe disease prevalence, incidence and mortality rates and apply them appropriately for quantifying disease frequency in populations.

9. Describe the relationship between incidence, mortality and prevalence.
10. Define and describe incidence rates and explain its difference from cumulative incidence.
11. Explain what constitutes a risk or protective factor for a disease, including their classification as modifiable and non-modifiable.
12. Discuss diversity in healthcare and justify its importance for ethical medical practice
13. Explain the ethical approach to patient diversity in terms of gender identity and social class
14. Practice the principles of ethical medical practice when caring for diverse populations
15. Explain the significance of the concept of justice and the challenges of attaining to health rights with respect to social/health inequalities
16. Describe intervention strategies & resource allocation in healthcare policy
17. Practice analyzing ethical challenges in the distribution of healthcare resources
18. Analyze the ethical challenges arising from the digitalization of medical practice and research.
19. Identify the principles guiding the ethical use of digital tools and the importance of maintaining human oversight.
20. Critically assess the impact of digitalization on healthcare disparities

Theme 2: Individual differences: Intelligence and personality

21. Outline the main theories of intelligence and intelligence tests.
22. Describe the role of psychometric assessment in medical diagnosis.
23. The influence of internal and external factors to intelligence.
24. Outline the impact of personality in health.

Theme 3: Adulthood and Family

25. Describe the characteristics of Adulthood.
26. Outline the interconnection between psychological and biological characteristics of this stage of human development.
27. Outline the impact of mid-life crisis on individuals and family.
28. Outline the institution of marriage.
29. Describe the role of the family from a developmental perspective and its contributory role in the development of individuals as social and biological beings.

Theme 4: Beginning of Life Ethics

30. Outline ethical-legal considerations in reproduction, assisted reproduction and termination of pregnancy.

	31. Describe the importance of concepts of reproductive autonomy and choice and procreative beneficence in the beginning of life ethics. 32. Describe the importance of different ways of thinking about the status of the embryo/foetus. 33. Practise ethical arguments related to beginnings of life ethics topics. **Theme 5: Ageing, death and dying, and bereavement** 34. Explain the term "demographic transition" and its implications in healthcare. 35. Describe the needs of informal carers. 36. Describe the social aspects of dying, death and bereavement. 37. Describe the process of medicalisation of death and the concept of “good death”. 38. Describe the last stage of the human life cycle and the way by which psychology and biology are interconnected. 39. The impact of aging on the physical and mental health of individuals. 40. Outline the impact of death on both the dying person and the family. 41. Outline the main theories of bereavement. 42. Outline core ethical-legal issues involved in the care of older patients 43. Practise critical analysis of decision-making with older patients 44. Discuss the key ethical and legal issues which may arise in the end-of-life care. 45. Describe the types of euthanasia and physician assisted suicide and discuss comparative country perspectives. 46. Practise ethical arguments related to end-of-life ethics topics. 47. Describe ethical implications of the definition of brain death with respect to practices of organ donation and transplantation. **Theme 6: Stress emotions, illness and psychosomatic problems** 48. Outline the role played by psychological factors such as emotions and stress in the development of illnesses and/or dysfunctions. 49. Outline the way by which psychological factors contribute to the development of somatic problems. 50. Describe different types of psychosomatic problems. 51. Practise the psychosocial principles of the social determinants of health and illness. **Theme 7: Psychology and Medicine** 52. Outline the Biomedical and the Biopsychosocial Approaches to Medicine. 53. Identify the advantages and disadvantages of each approach in the development of modern medicine. 54. Outline the role of psychosocial approaches in medical practice.

55. Discuss the ethical significance of biopsychosocial approach to health, in the clinic and beyond
56. Discuss the role of multi-disciplinary management of public health outbreaks

Theme 8: Doctor-patient relationships

57. Describe the social roles of patients and doctors.
58. Explain the models of doctor-patient relationships.
59. Outline doctors' communication skills.
60. Outline the impact of psychological principles in doctor patient contact and communication and its impact on treatment.
61. Define qualitative research.
62. Describe the various qualitative research methodologies.
63. Explain the various qualitative approaches to design, collect and analyse qualitative data.
64. Describe the process of coding and analyzing qualitative data.
65. Apply the basic qualitative methodology to analyse a specific case.
66. Practise the psychosocial principles of ageing and doctor-patients' relations.
67. Describe ethical principles applicable to the doctor-patient relationship and the movement from paternalistic to patient-centred approaches.
68. Analyse the Doctor/Patient Relationship in terms of Vulnerable Trust.
69. Explain the notion of duty of care and describe the responsibilities of doctors
70. Explain the significance of professional code for shared decision-making
71. Practice the ethical principles applicable to the doctor-patient relationship
72. Discuss the significance of the cooperative model and professional code for effective collaboration between physicians, teachers and medical students.
73. Explain the significance of reporting unsafe or unethical challenges.
74. Practice the ethical principles applicable to working in clinical teams.
75. Outline the role of the body in ethical, social and historical. considerations of medicine, and the relevance of the concepts of embodiment and autonomy.
76. Describe the ethical and societal challenges of recent advances in medical knowledge and biotechnology and the incorporation of personalized medicine in healthcare.

Theme 9: Psychosocial aspects of hospitalization

77. Describe the different factors contributing to the impact that hospitalisation has on people.
78. Describe the potential psychological impact that hospitalisation may have on people.

	79. Discuss ethics in the clinic with respect to the importance of respect for the patient's perspective in all clinical encounters. **<u>Theme 10: Coping with Illness and disability</u>** 80. Outline the psychological factors contributing to coping with illness and disability. 81. Describe the different approaches and techniques employed for coping with these difficulties. **<u>Theme 11: Digitalization in healthcare and research</u>** *Medical Ethics* 82. Critically assess the impact of digitalization on healthcare disparities and the potential for exacerbating or mitigating these disparities. *Medical Psychology* 83. Describe the evolving field of Digital Psychology and its relevance to contemporary psychological practice and research. *Research* 84. Explain the process of data collection using digital tools, and the data quality and privacy considerations. 85. Illustrate the benefits and limitations of digitalization in medical research statistics. 86. Assess how machine learning algorithms can be applied to medical data analysis and recognize potential pitfalls. 87. Differentiate between traditional statistical methods and machine learning approaches in the context of medical data analysis.		
Prerequisites	None	**Required**	None
Course content	**Themes:** 1. Social determinants of health and illness 2. Individual differences: Intelligence and personality 3. Adulthood and Family 4. Beginning of Life Ethics 5. Ageing, death and dying, and bereavement 6. Stress emotions, illness and psychosomatic problems 7. Psychology and Medicine 8. Doctor-patient relationships 9. Psychosocial aspects of hospitalization 10. Coping with Illness and disability 11. Digitalization in healthcare and research		

<table>
<tr><td>Teaching methodology</td><td>Lectures
Tutorials
Flipped learning
Directed self-study
Group Work</td></tr>
<tr><td>Bibliography</td><td>
Recommended Textbooks/Reading:
Psychology
<table>
<tr><th>Authors</th><th>Title</th><th>Edition</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>Susan Ayers, Richard de Visser</td><td>Psychology for Medicine and Healthcare</td><td>3rd Edition</td><td>Sage</td><td>2021</td><td>9781526496812</td></tr>
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Sociology
<table>
<tr><th>Authors</th><th>Title</th><th>Edition</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>Barry Anne-Marie, Yuill Chris</td><td>Understanding the Sociology of Health</td><td>5th Edition</td><td>Sage</td><td>2021</td><td>9781526497536</td></tr>
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Medical Ethics
<table>
<tr><th>Authors</th><th>Title</th><th>Edition</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>Dominic Wilkinson, Jonathan Herring, Julian Savulescu (eds)</td><td>Medical Ethics and Law: A Curriculum for the 21st Century</td><td>3rd Edition</td><td>Elsevier</td><td>2019</td><td>9780702075964</td></tr>
<tr><td>Williams, John R.</td><td>The WMA Medical Ethics Manual</td><td>3rd Edition</td><td>World Medical Association</td><td>2015</td><td>9789299007907</td></tr>
</table>
Research Methods
<table>
<tr><th>Authors</th><th>Title</th><th>Edition</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>Petrie A., Sabin C.</td><td>Medical Statistics at a Glance</td><td>4th Edition</td><td>Wiley-Blackwell</td><td>2020</td><td>9781119167815</td></tr>
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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 Edition	Oxford University Press	2022	9780192856562

	Tom L. Beauchamp, James F. Childress	Principles of Biomedical Ethics	8th Edition	Oxford University Press	2019	9780190640873
	Tony Hope & Michael Dunn	Medical Ethics: A Very Short Introduction	2nd Edition	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