



PB INSTITUTE OF RESEARCH AND TECHNOLOGY

P.O Box 21457-00100

Nairobi - Kenya

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Advanced Bioethics and Healthcare Law in the Digital Age

Duration: 5 days

On-Site

01 Who Should Attend

- Bioethics professionals and ethics committee members
- Health regulators and compliance professionals
- Pharmaceutical and medical device professionals
- Clinical researchers and research administrators
- Data protection and privacy professionals
- Public health professionals
- Biotechnology and digital health specialists
- Human rights practitioners
- Academics and researchers
- Professionals involved in healthcare policy and regulation



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02 About the Course

The **Bioethics, Health Law, and Emerging Medical Technologies Training Course** provides a comprehensive examination of the ethical, legal, regulatory, and policy challenges arising from developments in healthcare and medical technology. The course equips legal, healthcare, regulatory, and policy professionals with the knowledge needed to navigate complex questions involving patient rights, medical innovation, emerging technologies, and responsible healthcare governance.

Participants will explore informed consent, confidentiality, patient autonomy, research ethics, health data protection, medical liability, biotechnology, artificial intelligence in healthcare, genetic technologies, telemedicine, reproductive technologies, and other emerging areas. The course emphasizes balancing innovation with patient safety, human rights, ethical responsibility, and legal compliance.

03 Workshop Objectives

- Understand the fundamental concepts of bioethics and its application in healthcare settings.
- Learn about the core principles of health law and patient rights.
- Master methodologies for assessing the ethical and legal implications of emerging medical technologies.
- Develop proficiency in understanding informed consent requirements for complex medical interventions and research.
- Understand the critical aspects of regulating novel medical devices, pharmaceuticals, and AI in healthcare.
- Identify the critical role of equitable access and social justice in the context of advanced medical technologies.
- Develop skills in navigating the legal frameworks for genetic testing and gene editing.



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04 Module Topics

Module 1: Foundations of Bioethics & Health Law

- ▶ ??? Core principles of health law: patient rights, autonomy, beneficence, non-maleficence, justice
- ▶ ??? Defining bioethics: principles, theories, and their application in healthcare
- ▶ ??? The concept of informed consent: capacity, disclosure, voluntariness
- ▶ ??? Confidentiality, privacy, and medical record keeping
- ▶ ??? Legal frameworks for medical malpractice and professional responsibility

Module 2: Legal & Ethical Dimensions of Emerging Medical Technologies

- ▶ ??? Overview of cutting-edge medical technologies: AI in diagnostics, gene editing (CRISPR), personalized medicine, regenerative therapies
- ▶ ??? Regulatory pathways for novel medical devices and pharmaceuticals
- ▶ ??? The challenge of "disruptive innovation" for existing legal and ethical frameworks
- ▶ ??? Balancing innovation with patient safety and public health
- ▶ ??? Early case studies of ethical and legal issues in emerging tech adoption

Module 3: AI and Digital Health Ethics & Law

- ▶ ??? Legal and ethical considerations for Artificial Intelligence (AI) in medicine (diagnostics, treatment recommendations)
- ▶ ??? Data privacy and security in digital health platforms and telemedicine
- ▶ ??? Algorithmic bias in AI healthcare tools and its impact on equitable care
- ▶ ??? Legal liability for AI-driven medical errors

Module 4: Genomics, Genetics, and the Law



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- ▶ ??? Legal and ethical implications of genetic testing and screening
- ▶ ??? Gene editing technologies (e.g., CRISPR) for therapeutic and non-therapeutic uses
- ▶ ??? Genetic privacy: discrimination based on genetic information
- ▶ ??? Ownership and commercialization of genetic data
- ▶ ??? Policy debates around germline editing and reproductive technologies

Module 5: Informed Consent in Complex Medical Scenarios

- ▶ ??? Obtaining informed consent for experimental therapies and clinical trials
- ▶ ??? Consent for vulnerable populations (e.g., minors, incapacitated patients)
- ▶ ??? Dynamic consent models for data sharing and biobanking
- ▶ ??? The evolving role of consent in the age of large datasets and AI analytics
- ▶ ??? Challenges in communicating complex medical and technological information to patients

Module 6: Regulation of Medical Research & Clinical Trials

- ▶ ??? Legal and ethical frameworks for human subject research (IRBs/Ethics Committees)
- ▶ ??? Patient protection in clinical trials for novel therapies
- ▶ ??? Data sharing and intellectual property in collaborative medical research
- ▶ ??? Regulation of direct-to-consumer (DTC) genetic testing and health services
- ▶ ??? Ensuring integrity and transparency in research findings