



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II

**DOTTORATO DI RICERCA / PHD PROGRAM IN
INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

Ad hoc course announcement

Title: Professional skills in clinical environment for biomedical engineering

Lecturer: Prof. Ing. Gianni D'Addio

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Credits: 2

Schedule

Lecture	Date	Time	Topics	Lecturer
1	12 th October 2020	16.00-18.00	Microsoft Teams Link	Gianni D'Addio
2	19 th October 2020	16.00-18.00	Microsoft Teams Link	Gianni D'Addio
3	26 th October 2020	16.00-18.00	Microsoft Teams Link	Gianni D'Addio
4	2 nd November 2020	16.00-18.00	Microsoft Teams Link	Gianni D'Addio

Content

Lesson I – The Organization and Automation of Health Companies: The fundamental principles of the SSN. SSN bodies. The organizational elements of the health companies. The Company Act. The organs of Business Management. The corporate structures of the ASL. The Health Districts and their organization forms. The departmental organization. Hospital attendants. Regional organizational models of ASL. Hospital Companies. The regulatory framework for the authorisation and accreditation of healthcare facilities. The system of performance remuneration in the SSN. Elements of organization of health processes: e-Health Information Strategy and New Health Information System (NSIS). The Electronic Health Record. Architectural model. Telematic health certificates. E-Prescription – Electronic medical recipe. CUP – Information desk to book health appointments. The dematerialization.

Lesson II – Methodology of Risk Assessment in the healthcare field. Structure and contents of Legislative Decree 81/08. Classification and Definition of Risk Factors. The Document and risk assessment methodologies. The fire risk assessment in health facilities. Biological Risk Assessment, Biological Agent Classification and Biosafety Levels. Chemical Risk. Exposure to biological and chemical risks in health care, mapping of work areas exposed to biological risk, monitoring and control systems. Personal and collective protective devices: chemical and biological hoods.

Lesson III – The Health Certification Systems: ACCREDIA. Health Quality Management Systems – SGQ. The Quality Manual (MQ). Health and Safety Management Systems – SGSL. Organisational and management models. D.lgs 231 – The administrative responsibility of companies. UNI-INAIL guidelines for SGSL. OHSAS 18001 standard.

Lesson IV – Guidelines and implementation of telemedicine in healthcare: Definition of main areas purpose and classification of telemedicine services. Specialist telemedicine, televisit, teleconsultation, telecooperation, telesalute, teleassistance. Schematic

representation of the telemedicine classification. Characterisation and description of a telemedicine service. Organisation of a telemedicine service. Opportunities and problems in the dissemination of telemedicine on a large scale. The international and national panorama of telemedicine. Integration of telemedicine into the health service. Regulatory framework. Model of regional governance of telemedicine initiatives. Remuneration and economic evaluation of telemedicine services. Performance indicators. Ethical aspects. Processing of personal data and clinical data with electronic instruments. Definition and scenario of mobile health. Potential in terms of health care. Mobile health app market. Data protection, regulatory framework and patient safety and transparency of information. Role of m-health in health systems and equal access. Interoperability. Reimbursement models. Risks and critical use. M-health as a medical device.

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