



Training model:

Mixed: e-learning and conventional learning

Number of credits covered:

Total Theoretical Practical

Preinscription:

September 2006

Registration:

October 2006

Starting and ending dates:

October 2006- September 2008

Requirements:

High degree education, preferable Bachelor in Medicine. Superior Informatics Engineering. Physics Bachelor. Superior Telecommunications Engineering. Conditions in wich the labour requires these trainigs.

Degree or Certificate given:

EU - MASTER OF TELEMEDICINE AND BIOENGINEERING APPLIED TO TELEMEDICINE



UNIVERSITY OF
LA LAGUNA
*European Master of Telemedicine
and Bioengineering applied to
Telemedicine*

PROGRAMME

<http://www.teide.net/catai/MasterIngles/mastereng.htm>

e-mail: catai@teide.net



**UNIVERSITY OF
LA LAGUNA**

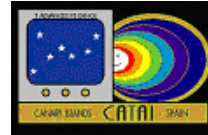
September 30, 2004

*European Master of
Telemedicine and
Bioengineering applied to
Telemedicine*



**Academic period
2005 - 2007**





Contents (the theoretical contents include study hours)

		Op./Obl.	Total Hours	Theoretical	Practical
HISTORY OF TELEMEDICINE	HISTORY OF TELEMEDICINE	OP	5	5	0
TECHNICAL REQUIREMENTS OF THE C & IS¹	AUDIO/DATA/IMAGES/VIDEO /NETWORKS/ TELECOMMUNICATIONS/ PROCESSING /DISPLAYS / STORAGE/ HUMAN INTERFACE / STANDARDS	OB	60	30	30
ELECTROPHYSIOLOGIC MEASUREMENTS AND TELEMETRY	TRANSM.-RECEPTION-HANDLING OF BIOLG.SIGNALS/ TELE- DIALYSIS/ TELE-ECG/ TELEMETRICS	OB	35	15	20
SENSORS- BIOSENSORS. NEW MATERIALS AND NANOTECHNOLOGY	MICROSCOPIC ELECTRO-MECHANICAL MACHINES / NANOTECHNIQUES/ INVASIVE & NON-INVASIVE BIO-SENSORS	OP	30	30	0
MEDICAL IMAGES.	IMAGE CAPTURE/MANIPULAT/COMPRES/ANALYSIS/STANDARDS	OB	10	10	0
STATIC AND MOVING MEDICAL IMAGE/ COMPRESSION/ COLOUR THEORIES/ DIAGNOSTIC VALUE	VIDEOCONFERENCE/ DIGITAL IMAGES/ COMPRESSION/ DISTANT QUANTIFICATION/ 3D RECONSTRUCTION	OP	25	10	15
MINIMAL REQUIREMENTS FOR TELEMEDICINE APPLICATIONS	TELEMEDICINE/ TELE-OFTALMOLOGY- DERMATOLOGY-XRAY- ONCOLOGY-PAEDIATRICS-SURGERY-NURSERY-ORL- PSYCHIATRY-OBSTETRICS-PATHOLOGY-PUBLIC HEALTH- STOMATOLOGY	OB	80	50	30
QUALITY CONTROL AND ASSESMENT OF TELEMEDICINE AND TELEMONITORING APPLICATIONS	QUALITY CONTROL TECHNICS/ STATISTICS/ STANDARDS	OB	15	15	0
ELECTRONIC HEALTH RECORDS	EHR ARCHITECTURE / MIDDLEWARE/ DISTRIBUTED DATABASES/ DATA MINING/ STANDARDS SECURITY / LEGALITY	OB	45	20	25
INTERNET IN MEDICINE	SEMANTIC WEB / AGENTS/ SECURITY/ ONTOLOGIES/ LEGALITY	OB	45	30	15
TELE-WORKING-TRAINING-TEACHING / STANDARDS	STANDARDS / SEMANTIC WEB / ONTOLOGIES	OB	30	15	15
SECURITY AND PRIVACY OF MEDICAL DATA IN THE C & IS	LEGAL FRAMEWORK/SECURITY TECHNICS/PUBLIC KEY/PRIVILEGE MGNT/CRYPTOGRAPHY/TELECOMMUNICATION	OB	45	30	15
LIABILITY AND LEGAL ASPECTS OF MEDICINE IN THE C & IS	E-GOVERNMENT/ E-ADMINISTRATION/ CONTRACTUAL MODELS/ PATIENTS' RIGHTS / MEDICAL RESPONSABILITY/ ACCESSIBILITY/ INFORMED CONSENT	OB	20	20	0
HEALTH ECONOMICS AND PLANNING IN THE IS	COST-BENEFIT/STRATEGIC PLANNING/TECHNOLOGY TRANSFER	OP	10	10	0
STANDARDS AND STANDARIZATION BODIES	HL7-CEN-ISO-ANSI-ASTM-WHO-UN-EBES-EEG9-ETSI	OP	10	10	0
DECISION SUPPORT SYSTEMS & ARTIFICIAL INTELLIGENCE	NEURONAL NETWORKS/ STATISTICAL DECISION/ DATA MINING	OP	20	10	10
RESEARCH PROJECT	RESEARCH PROJECT DEVELOPEMENT	OP	100	0	100
TELEROBOTICS-TELESURGERY-TELEPRESENCE	WORK IN TELEROBOTICS/ TELESURGERY & TELEPRESENCE	OP	20	0	20

1 C & IS= Communications and Information Society

Op=Optional Ob=Obligatory