

**MA IN "HEALTHCARE INFORMATION SYSTEMS"
(TAUGHT IN BULGARIAN)**

Brief presentation of the program: The program represents an original combination of elements with interdisciplinary focus: the structuring and processing of health and medical information, information systems and modeling in areas of health information systems with a telemedicine focus, development, testing, maintenance and improvement health care of specialized databases and software, etc. .

It is a modern interdisciplinary program that bears the marks of contemporary notions of Internet education in informatics, medicine and health sciences. The training is based on the basic information / IT-management principles, processes, phenomena and activities in the field, based on high-tech treatments and applications of polyvalent health portfolio information from selected locations and at certain times.

Major and qualification: Specialization: Information systems
Qualification: Master of Information Systems in Healthcare

Preparatory module

ISHM001 Principles of electronic healthcare, 30h, 3 ECTS

ISHM002 Medicine for non-medicals, 30h, 3 ECTS

ISHM003 Fundamentals of Artificial Intelligence, 30h, 3 ECTS

Extracurricular credit courses

ISHM010 Individual work: "Electronic healthcare in Bulgaria", 30h, 3 ECTS

ISHM011 Seminar: IT solutions in the healthcare sector, 30h, 3 ECTS

ISHM012 Project: Foundations of Artificial Intelligence, 30h, 3 ECTS

First year, First Semester

ISHM101 High-tech medicine, 30h, 3 ECTS

ISHM102 Health and Medical Informatics, 30h, 3 ECTS

ISHM103 Theory and Information Processing, 30h, 3 ECTS

ISHM104 Medical Computer Systems, 30h, 3 ECTS

ISHM106 Electronic Patient Record, 30h, 3 ECTS

ISHM107 Information standards in medicine and health, 30h, 3 ECTS

ISHM108 Visual diagnostic practicum, 30h, 3 ECTS

Extracurricular credit courses

ISHM110 Individual work: "Working with multimedia products and software", 30h, 3 ECTS

ISHM111 Project: High-tech medicine, 30h, 3 ECTS

ISHM112 Individual work: "Modular Concepts MIS Profiles", 30h, 3 ECTS

ISHM113 Seminar: "Sources of health information", 30h, 3 ECTS

ISHM114 Practice: "Work with health databases", 30h, 3 ECTS

ISHM115 Individual work: Electronic versions of health documents ", 30h, 3 ECTS

ISHM116 Specialized modeling of medical and health processes, objects and activities, 30h, 3 ECTS

First year, Second Semester

Basic courses

ISHM201 Systems and management in healthcare, 30h, 3 ECTS

ISHM202 Data Bases in healthcare and medical care, 30h, 3 ECTS

ISHM203 Application of expert systems in health care, 30h, 3 ECTS

ISHM204 Programming with Delphi, 30h, 3 ECTS

ISHM205 Implementation of information systems in the healthcare sector, 30h, 3 ECTS

ISHM206 Image Processing and image diagnostics, 30h, 3 ECTS

ISHM207 Development of medical measuring applications with Lab View, 30h, 3 ECTS

Extracurricular credit courses

ISHM211 Individual work: "Telemedicine options for professional consultations", 30h, 3 ECTS

ISHM212 Practice: "Development and implementation of information systems in the Bulgarian healthcare environment", 30h, 3 ECTS

ISHM213 Project: "Image Processing and image diagnostics", 30h, 3 ECTS
ISHM214 Project: "Development of a User's Guide" 30h, 3 ECTS
EXDM214 Practice: Therapy of language deficits by applying, 30h, 3 ECTS
ISHM215 Individual work: "Telemedicine activities such as modern trends in processing health information", 30h, 3 ECTS
ISHM216 Practice: "Working with health information systems", 30h, 3 ECTS
ISHM217 Individual work: "Information Models in Healthcare", 30h, 3 ECTS

Second year, Third Semester

Basic courses

ISHM204 Programming with Delphi, 30h, 3 ECTS
ISHM301 Health Management, 30h, 3 ECTS
ISHM302 Robotics in Medicine, 30h, 3 ECTS
ISHM303 Bionics, 30h, 3 ECTS
ISHM304 Statistical Methods in health care, 30h, 3 ECTS
ISHM305 Ethics in Health Care, 30h, 3 ECTS
ISHM306 Telemedicine Information Systems, 30h, 3 ECTS

Extracurricular credit courses

ISHM401 Master Internship, 150h, 15 ECTS