ΕΓΚΡΙΘΗΚΕ (ΣΥΝΕΛΕΥΣΗ ΤΜΗΜΑΤΟΣ ……)

ΔΙΕΘΝΕΣ ΠΑΝΕΠΙΣΤΗΜΙΟ ΤΗΣ ΕΛΛΑΔΟΣ

SCHOOL OF HEALTH SCIENCES

NURSING DEPARTMENT

Λογότυπο τμ

STUDY GUIDE

DEPARTMENT OF NURSING
ACADEMIC YEAR 2024-25

THESSALONIKI, 2024

EDITING GROUP

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I.H.U. 2024

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FOREWORD

Dear students,

Congratulations on your success and welcome to the educational community of the International Hellenic University (IHU) and the Department of Nursing. You are holding in your hands the Handbook of the Study Guide of the Department of Nursing of the IHU School of Health Sciences.

In the pages of this Guide you can find information about the philosophy and mission of the Department, its administrative function, the content of the curriculum, the staff, research and postgraduate activities, news about the professional development of our graduates, as well as information about the services offered by the IHU.

With the assurance that all the staff of the Department will do their best to help you during your studies, I wish you a good start and success in your studies!!!

The President of the Department

Dr Maria Lavdaniti
Professor, Nursing Department

THE INTERNATIONAL HELLENIC UNIVERSITY

1.1 General Information

The International Hellenic University (I.H.U.) based in Thessaloniki, was founded by article 1 of Law 3391/2005 (A΄ 240) and is organized and operates as a Higher Educational Institution (HEI) in the university sector, in accordance with article 6 paragraph 1, Law 4610/2019 (A΄70).

The International Hellenic University (IHU) has eight (8) Schools with twenty-five (25) Departments.

In addition, the IHU has a University Center for International Programmes of Studies, based in Thessaloniki, as an academic unit of the institution.

The University Center for International Programmes of Studies has the following departments:

α) The School of Humanities, Social and Economic Sciences, of the Faculty of Humanities, Social and Economic Sciences.

(b) Science and Technology, within the Faculty of Science and Technology.

The above Departments are located in different cities of Northern Greece. Most of them are mainly concentrated in three campuses: Thermi (where the headquarters of the University is located), Sindos and Serres.

1.2 Academic and Organizational Structure

According to the current legislation, each University is subdivided into Schools, which cover a set of related scientific disciplines, so that the necessary coordination for the quality of the education provided can be ensured. A School is subdivided into individual Departments which also constitute the basic academic units. The units in question cover the subject of a specific scientific field and award the corresponding degree/diploma. The Schools of the International Hellenic University - with their Departments - are as follows:

SCHOOLS	DEPARTMENTS
SCHOOL OF ECONOMICS AND BUSINESS ADMINISTRATION (Thessaloniki)	• Department of Economics (Serres) • Department of Business Administration (Serres) • Department of Supply Chain Management (Katerini) • Department of Organization Management, Marketing & Tourism (Sindos -Thessaloniki) • Department of Accounting and Information Systems • (Sindos - Thessaloniki)
SCHOOL OF SOCIAL SCIENCES (Thessaloniki)	• Department of Library, Archive and Information Science (Sindos - Thessaloniki) • Department of Early Childhood Education and Care (Sindos - Thessaloniki)

SCHOOL OF HEALTH SCIENCES (Thessaloniki)	• Department of Nutritional Sciences and Dietetics (Sindos - Thessaloniki) • Department of Midwifery Science (Sindos - Thessaloniki) • Department of Biomedical Sciences (Sindos - Thessaloniki) • Department of Physiotherapy (Sindos - Thessaloniki) • Department of Nursing (Sindos - Thessaloniki)
SCHOOL OF ENGINEERING (Serres)	• Department of Mechanical Engineering (Serres) • Department of Surveying and Geoinformatics Engineering (Serres) • Department of Civil Engineering (Serres) • Department of Computer, Informatics and Telecommunications Engineering (Serres) • Department of Environmental Engineering (Sindos-Thessaloniki) • Department of Industrial Engineering and Management (Sindos - Thessaloniki) • Department of Information and Electronic Engineering (Sindos - Thessaloniki)
SCHOOL OF DESIGN SCIENCES (Serres)	• Department of Interior Architecture (Serres) • Department of Creative Design and Clothing (Kilkis)
SCHOOL OF GEOSCIENCES (Thessaloniki)	• Department of Agriculture (Sindos - Thessaloniki) • Department of Food Science and Technology (Sindos - Thessaloniki)
SCHOOL OF HUMANITIES SOCIAL SCIENCES AND ECONOMICS (Thessaloniki)	• Department of Humanities, Social Sciences and Economics (Thermi- Thessaloniki)
SCHOOL OF SCIENCE AND TECHNOLOGY (Thessaloniki)	• Department of Science and Technology (Thermi - Thessaloniki)

The **administrative bodies** of each School are the Deanery and the Dean.
The Deanery of each School consists of:

-the Dean of the School,
- the Presidents of the Departments, and
- representatives of Special Technical Laboratory Staff (E.TE.P.), Special Teaching Laboratory Staff (E.D.I.P.), and students.

The Department is managed by:
- the Department's Assembly
- the Management Board, and
- the President of the Department

The Assembly of the Department is consisted of the Educational Staff members of the Department ,the technical staff representatives, undergraduate and postgraduate students.

The Assembly and the President of the Department consist the Bodies of the Departments' (established) directions (Sectors) - where they exist. The Assembly is made up of the Educational Staff members of each course and of student representatives

1.3 The Alexandria Campus

The Department's facilities are located in the area of Sindos (Alexandria University Campus of Sindos), west of the prefecture of Thessaloniki, as well as the other departments and schools of the IHU located in Thessaloniki, at the already existing facilities of the former Technological Educational Institute of Thessaloniki (TEITH). In this campus, there is a student residence, a gym for students and a medical centre for employees and students.
Sindos is easily accessible via Egnatia Odos (junction 20). In addition, Sindos has a railway station on the Athens-Thessaloniki line and since 2007 is served by the Thessaloniki suburban railway. It is also connected to Thessaloniki by bus lines of the Thessaloniki bus company OASTH.

Model of Alexandria Campus of Sindos, IHU

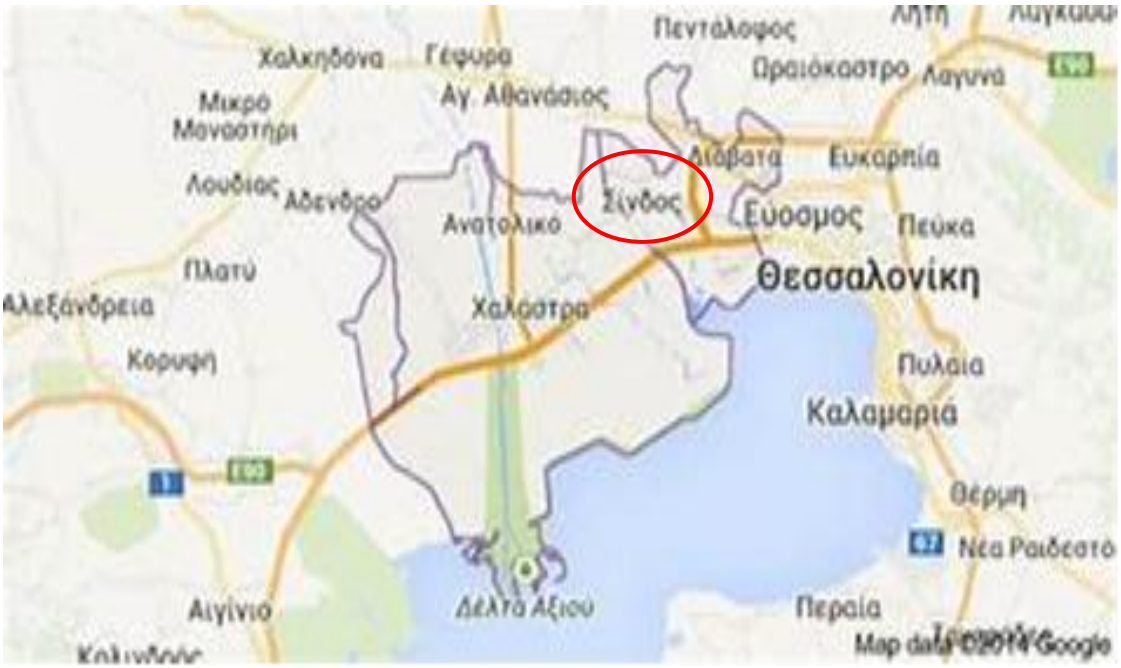
Aerial view of Alexandria University Campus Sindos, IHU

1.4 Geographical and Demographic Information

Sindos belongs to the prefecture of Thessaloniki. It is located northwest of Thessaloniki at a distance of 14 km and 2 km west of the river Gallikos (Echedoros). North of the town, a short distance away, is the Industrial Area of Thessaloniki, one of the largest industrial zones in Greece.

Sindos is administratively part of the Municipality of Delta and is the seat of the Municipal Unit of Echedoros.

The facilities of the International Hellenic University are located in the town.



Sindos, Municipal Unit of Ehedoros, Municipality of Delta

1.5 Historical data

Sindos, formerly known as Tekeli, is a small town of the Regional Unity of Thessaloniki, seat of the Municipal Unit of Ehedoros and the Municipality of Delta. It has a population of 9,289 inhabitants, according to the 2011 census.

It is an ancient city mentioned by Herodotus in his seventh book, where the fleet of Xerxes entered the Thermaikos Gulf and sailed to Thermi, the city of Sindos and Halastra.

Afterwards Sindos was inhabited by various Thracian and Greek tribes. Important archaeological findings from the ancient cemetery of Sindos are exhibited in the Archaeological Museum of Thessaloniki.

During the Balkan Wars, negotiations for the surrender of Thessaloniki took place in Sindos. At that time it was inhabited by about 60 native families. After the Asia Minor Catastrophe, 389 Greek refugee families settled in the area, numbering a total of 1,457 people. Specifically, Greek refugees from Asia Minor, especially from Hamzabeyli in Magnesia, Sousourluki in Prussia and from Eastern Thrace, mainly from Vizvi, but also Greek refugees from Sinapli in Eastern Rumelia, settled in Sindos.

1.6 Useful links of transportation

The national transport network meets the needs of the Sindos Campus with the number 52 bus. The service runs from 6:00 am to midnight. Bus 52 provides transport for students and other citizens from the Thessaloniki train station to the Alexandros Campus of the International Hellenic University and vice versa.

Useful links and phone numbers (indicative list)

Thessaloniki intercity buses:

- https://ktelthes.gr-el
- https://ktelmakedonia.gr

Radiotaxi:

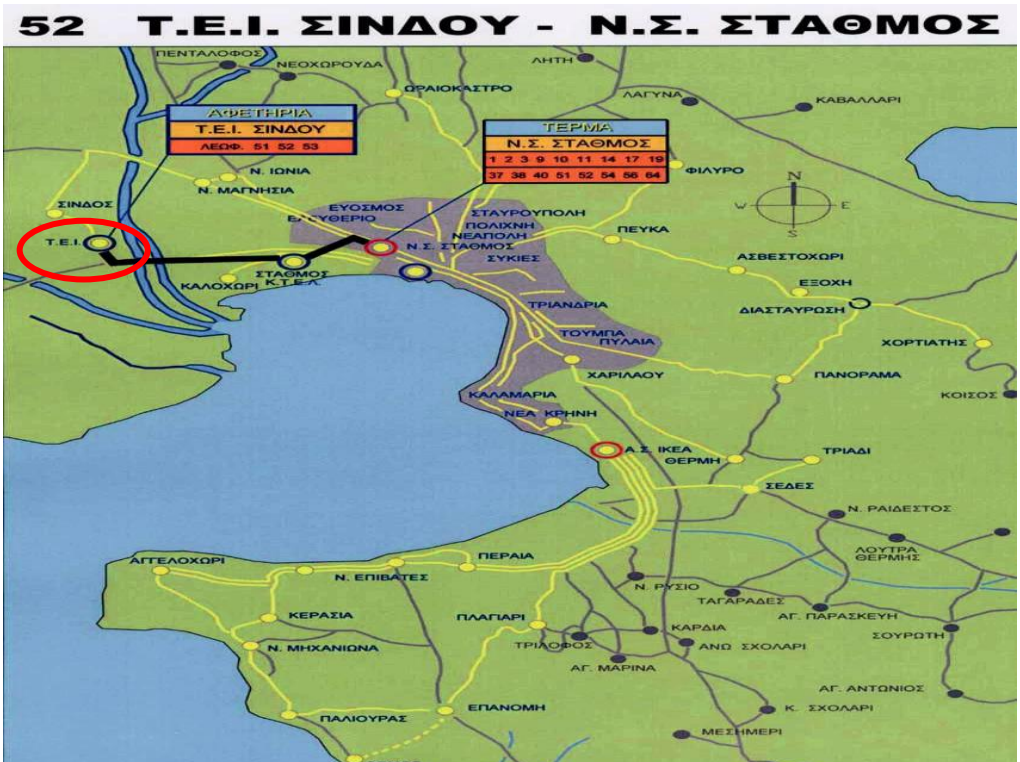
- https://taxiway.gr
  Tel: +(30) 2310866866
- https://www.radiotaximercedes.eu
  Tel: 18180 +(30) 2310525777
- https://www.taxiwind.gr

White taxi services for disabled people:

- https://www.λευκοταξί.gr
  Tel: 6944515460
- https://www.whitetransfer.gr
  Tel: +(30) 2310784782

Van Transfer:

- https://www.taxivan9.gr
  Tel: +(30) 6945123410 (Vodafone), +(30) 6995110502 (wind), +(30) 6974255232 (what´s up)
- https://www.alpha-thessaloniki-transfers.gr
  Tel: +(30) 2315 000430, +(30) 6995265111



THE DEPARTMENT OF NURSING

The Department of Nursing of the School of Health Sciences of the International was established in May 2019 by Law 4610 (Government Gazette 90/A΄/07-05-2019) “Synergies between Universities and Technological Educational Institutes (T.E .I.), access to higher education, experimental schools, General State Archives and other provisions"
Prior to this there was the Department of Nursing of the Alexandrion T.E.I. of Thessaloniki. The Department of Nursing was first established in 1973 at the K.A.T.E.E. of Thessaloniki and with the establishment of the T.E.I.Th. it was integrated into the higher technological education. Subsequently, with the law 2916/2001 GG 114, it was integrated into higher education. Today, by Law no. 4610 "Synergies between Universities and Technological Educational Institutions and other provisions for higher education", the International Hellenic University (IHU), based in Thessaloniki, established by Article 1 of Law No. 3391/2005 (A' 240), was organized to operate as a Higher Educational Institution (HEI) of the university sector in accordance with paragraph 1 and case a' of paragraph 1 of Article 1 of Law No. 1 of Article 1 of Law No. 2 of Article 1 of Article 1 of Law No. 4485/2017 (A114), absorbed the Universities of Thessaloniki, Central Macedonia and Eastern Macedonia and Thrace, which were abolished. Thus, the Department of Nursing became a university department of the School of Health Sciences of the the International Hellenic University (IHU).
It should be noted that the International Hellenic University of Greece was established by Law 3391 of 2005 and started its operation in 2008, when it was funded by the NSRF 2007-2013 through the Operational Programme "Education and Lifelong Learning" and is located in Thermi, Thessaloniki.
The aim of the Department of Nursing is to provide students with an excellent education that will lead them to a scientific and professional career and development as multi-skilled nurses, responsible for the promotion of health, the care of the human being, healthy and sick, the prevention of diseases and the rehabilitation of health. Upon graduation, students will be prepared to work effectively both in the community and in the hospital, providing services in Primary, Secondary and Tertiary Institutions and Health Care Organizations.

Figure 1. View of the Department's building

THE UNDERGRADUATE STUDY PROGRAM

1.7 The aims of the Undergraduate Study Program

The aim of the Undergraduate Study Program of the Nursing Department is to prepare qualified General Nurses with specific scientific knowledge and special skills, so that they are able to promote, protect, maintain and restore the health of individuals/groups and train them to be capable of self-care while maintaining their autonomy, in the context of respecting the personality of each individual as well as their psychological, social, economic and cultural characteristics.
The main Study Program areas include, among others:
General Infrastructure Courses (GIS), Special Infrastructure Courses (SIC), Nursing Specialty Courses (NCS) in which there are alternative course options.

1.8 Awarded title and level of qualification

The Department's Study Program ensures to its graduates access to postgraduate studies leading to a Master's degree (2nd cycle studies).

1.9 Career Prospects for Graduates

Upon completion of their studies, graduates of the Department have a high level of theoretical knowledge and skills that are considered necessary for the effective practice of nursing science.

Graduates with a bachelor's degree will be able to function effectively in the following areas

- Provide individualized evidence-based nursing care.

- Apply the nursing process to daily practice.

- Teaching nursing at all levels of nursing education.

- Developing research programs that are responsive to nursing practice.

- Developing health education programs in schools, professional settings and in the community.

- Improving the quality of nursing care.

- Integrate ethical and legal commitments and professional values into nursing practice.

As far as the potential of the future graduate nurse is concerned, these are:

- Working in all countries of the European Union and in international organizations (the distribution of ECTS credits, in all semesters of study, serves the evaluation of students at international level)
- Acquisition of nursing specialisation in the hospital sector for the title of specialist nurse in surgery, pathology, paediatrics, intensive care units, community nursing, oncology nursing, cardiac nursing and psychiatry. In the near future, it is foreseen that other nursing specialties, such as palliative care nursing, will be approved by legislation.
- Postgraduate studies in national or international institutions.
- Doctoral thesis in the Nursing Department of the IHU or any other department of the University.
- Participation in qualifying examinations for admission to university departments
- Participation in research projects and studies conducted in the field of health by various institutions.

INFORMATION on the CURRICULUM of STUDIES

1.10 Duration of Studies

The first cycle of studies in the Department of Nursing, School of Health Sciences of the International Hellenic University requires attending an Undergraduate Study Program (USP), which includes courses corresponding to a minimum of 240 credits (ECTS). It typically lasts four (4) academic years and culminates in the award of a degree. In each academic year, the student chooses educational activities corresponding to 60 credits (ECTS) (Par. 2b Article 30 LAW 4009/2011)

The USP studies are conducted with the system of semester courses, which are divided into eight (8) semesters.

The maximum duration of study in a first-cycle study program constists of a minimum duration of eight (8) academic semesters for the award of the degree, increased by four (4) academic semesters. After the completion of the maximum period of study, the Assembly of the Department issues an act of deletion (article 76, par. 1, Law 4957/2022).

Students who have not exceeded the upper limit of study may, after applying to the Department Secretariat, interrupt their studies for a period of time that does not exceed two (2) years. The right to interrupt studies may be exercised once or partially for a period of at least one (1) academic semester, but the duration of the interruption may not cumulatively exceed two (2) years, in case it is partially provided. Student status is suspended during the interruption of studies and participation in any educational process is not allowed (article 76, par. 4, Law 4957/2022).

1.11 Admission and Registration

Students are those who are registered in the Department Nursing of the I.H.U. after passing the entrance exams to higher education, by transfer or by qualifying exams in accordance with the current regulations .

The registration of newly admitted students takes place at the Department's Secretariat within the time limits defined each time by the Ministerial Decisions.

The passing candidates of the Panhellenic examinations who completed their registration through the electronic application of the Ministry of Education and Culture must carry out the identity check at the Secretariats of their Departments, submitting the following supporting documents

1. Application for registration (printed from the website of the Ministry of Education),

2. Photocopy of identity card (ID),

3. One (1) photo (ID type),

For the remaining categories of new entrants, the required supporting documents are announced on a case-by-case basis

1.12 Academic Year Calendar

The academic year starts on September 1 every year and ends on August 31 of the following year. The educational work of every academic year is organized in two semesters, the fall semester and the spring semester, each of which comprises 13 weeks of teaching and one examination period (three weeks of exams). There are courses and labs for which students are examined with progress tests and/or assignments; in this case, students do not take part in re-sit exams held in September.

For the Department of Nursing, the total number of semesters required to complete a course, as specified in the curriculum, is 8 semesters.

Fall semester courses start in the last week of September and end in mid-January, followed by the first exam period of the fall semester.

Spring semester courses start in late-February and end at the end of May, followed by the first exam period of the spring semester.

Exact dates are determined by the Executive Committee.
Every semester has two exam periods:

Fall semester courses are examined during the exam period January-February; re-sit exams are held in September.

Spring semester courses are examined during the exam period of June; re-sit exams are held in September.

Every semester, and before the beginning of each exam period, students have the right and obligation to evaluate their courses and instructors, aiming at the improvement of the quality of their studies.

More information is available at the website of the Quality Assurance Unit (MODIP-I.H.U.) and the website of their Faculty/School.

HOLIDAYS
Courses or exams are not held in the two months of summer holidays (July and August). Holidays also include:

Christmas Holidays: December 24 to January 7.

January 30: The Three Patron Saints of Education Day

Holly Monday (Kathara Deftera)

March 25. The Annunciation / National Celebration

October 28: National celebration

November 17: Students' uprising in the National Technical University of Athens against the junta in 1973

October 26: Patron Saint (Sainit Dimitrios) of the city of Thessaloniki .

1.13 Specific Arrangements for Recognition of previous Studies

Recognition/Accrediation of courses to students who entered by Admission Exams for Graduates
Recognition of courses from qualification examinations and other cases.

Students admitted with the 10% quota (graduates from other departments, special needs), with a qualifying exam or transferred, in accordance with the applicable provisions and admitted to the Department of Nursing of the IHU, may have their courses recognized, on condition that they have been successfully taught and tested in their Department of origin at a University of Greece, provided that these courses correspond to courses of the Program of Study of the Department of reception with the same/similar course outline.
The recognition of the courses is decided by the Assembly of the Department of Nursing, on the recommendation of the Committee appointed by the Assembly, at the request of each student. Students are exempted from the examination of the courses (theory or laboratory) which are recognized, and which may not exceed 30% of the total course of the course curriculum. In particular, the student together with the application shall submit the required supporting documents, which are the following: a certificate of analytical grade (with a theory and laboratory grade analysis) validated by the Secretariat of the Department of origin, and the outline of the courses successfully examined, for which he/she is applying for recognition.

Recognition of courses under the Erasmus program
Within the framework of the Erasmus program, the student's course recognition is done at the end of the mobility, in accordance with the European Credit Transfer System (ECTS). The academic coordinator/Erasmus+ of the Department prepares the course recognition certificate on the basis of the official score and the ECTS sent by the partner Institution. On the basis of this, the points in the corresponding courses of the Department's Curriculum are registered by the Secretariat.
As regards the traineeships under the Erasmus+ program, the selected students complement the mobility agreement for traineeships, which includes the tasks and the training program of the student during his/her stay at the host institution. In addition, the student shall provide a daily activity diary, an evaluation report by a responsible person of the organization in which he/she was assessed, and an evaluation report by a responsible person of the host university.

1.14 Course declaration - Renewal of registration

The course statements are made online, at the beginning of each semester and on dates set by the IHU administration and which are common to all departments and schools of the IHU. Also, there are no prerequisite courses (chains) of previous semesters for the participation of students in the next semesters.

1.14.1 Statement of Preference for Placement in Laboratory Classes

For the laboratory courses the Assembly of the department decides the distribution of students, as well as their clinical clinical placement in hospitals and other health structures.

1.15 Academic ID- Student pass

Since 09/24/2012, undergraduate, postgraduate and doctoral students of all Universities in the country can electronically apply for the issuance of their academic identity card.
Electronic Service for Acquiring Academic Identity - Information Portal (minedu.gov.gr).
As from 24/09/2012, undergraduate, graduate and doctoral students of all Universities in the country can submit their application for academic identity online on this website: Academic Identity Online Service - Informational Portal (minedu.gov.gr)

1.16 Teaching Aids and Resources

The educational work is supported by the corresponding coursebooks, which are provided free of charge to the students, through the Electronic Integrated Book Management Service (Eudoxus). Students,after submitting the electronic declaration of courses each semester, also make the corresponding declaration of books on the web portal of the "EUDOXUS" system (http://eudoxus.gr/), with which they declare the coursebooks they wish to receive.
In order to be able to carry out the declaration of the papers by a student, the username (password) provided by the Secretariat of the Department and used for the other electronic services of the Foundation are required. The student enters a central website of the Central Information System (CIS) from where he/she is certified. There he is informed about the approved writings of the courses of the Department and selects what he is entitled to (one textbook per course he has declared). The instructor of each course has already proposed one or more projects suitable for the study of the course. Then, the student receives directly from the CIS an SMS and a e-mail with the code PIN, by which he receives the books he chose either from the Library of the University campus of Serres, or a contracted bookstore that will be indicated to him, or by any other procedure chosen by the Ministry of Education and the service Eudoxos (e.g. by courier services), on working days and hours upon presentation of his identity.

1.17 Course of Study

The Study Program offers 65 courses of which 43 are compulsory core courses, 22 elective courses of which the students should attend and pass 10. On the total the students should attend and pass 53 courses.

The educational process of each course includes...

ECTS credits: Each course of the Department's Curriculum is characterized by a number of credits.

The ECTS credits, which are allocated to each course, are a measure of the workload required to complete the objectives of an Academic Program by each student

Crade Scale: Grading is expressed as a numerical scale from zero to ten (0 - 10), and five (5) is the minimum passing mark.

For the successful completion of a laboratory course or the laboratory part of a combined course (theoretical and laboratory-based), the student must achieve.

- The grade of the laboratory or the laboratory part of a combined course
- The final grade of a theoretical course
- The final course grade.

1.18 Examinations

Written examinations are conducted on the dates specified by the IHU administration. The responsibility for the preparation of the Examination Program lies with the Assembly of the Department and is announced under the responsibility of the President of the Department 15 days before their start.

For students who fall under the legal provisions for oral examination, oral examinations are carried out.
For students who have failed theoretical or laboratory courses in both the fall and spring semesters, they are given a second chance in the September exam and on dates determined by the administration of the IHU.
In addition:
The examination program shall include:
- the subject under consideration
- the rapporteur on the questions
- the date, time and test room
- the appropriate indication if the course is considered “orally”

1.19 Bachelor's Diploma Thesis

There is no provision for the preparation of a thesis as a prerequisite for the award of the degree for students of the Department of Nursing.

1.20 Work placement (internship)

In the curriculum of the Department of Nursing there are the following compulsory courses:
- Clinical Nursing, I (Internship) in the 6th semester for 7 hours a week (7 ECTS, Workload 210)
- Clinical Nursing II (Internship) in the 7th semester, for 14 hours a week (14 ECTS, Workload 420)
- Clinical Nursing III (Internship) in the 8th semester 14 hours a week (14 ECTS, Workload 420)

The Clinical Nursing Courses I, II and III involve internships. They are of great importance as they bring students into direct contact with the real working environment. It takes place in public primary, secondary and higher health care structures. This enables students to gain work experience, familiarize themselves with their future working environment and the demands of the profession and to implement and complete the required knowledge and skills in the care process. The students are practiced in public health structures that have departments of the internal medicine and surgical fields, emergency department, surgery and intensive care units.

Supervision of Student Trainees
- During the internship in the course of the Clinical Nursing I, Clinical Nursing II and Clinical Nursing III, each student is supervised by the instructor of the course, by the professor/associate of the Department of Nursing responsible for supervising the clinical placement of the students in the institution and by the supervisor of the practice body.
- In addition to the teachers and the professor/associate of the Department of Nursing who is responsible for supervising the clinical placement of the students in the institution and the supervisor of the clinical placement body must have a degree and master’s in nursing and adequate clinical experience.
- All supervisors have the responsibility of mentoring and supervising the student in the workplace.

Monitoring and integration requirements
- There are no prerequisite courses for the declaration of the courses of Clinical Nursing I, II, III (Internship). Students should be at least in the 6th semester to attend the Clinical Nursing I course (Internship), in the 7th semester to attend the Clinical Nursing II (Internship) course, and in the 8th semester for the Clinical Nursing III (Internship) course.

- During the courses of Clinical Nursing I, II, III, students must attend the clinical placement area without interruption, follow the hours as defined by the Study Guide and actively participate in the performance of the tasks assigned to them.
- Students in the clinical placement area are obliged to follow safety and working regulations. For any problem that occurs in the clinical placement area, the students must immediately inform the Professor/Assistant of the Nursing Department who is responsible for supervising their clinical placement in the Practice Body and the Supervisor of the Institution for its immediate resolution.
- Students briefly record the subjects they practice in their Clinical Training Booklet for each day of their internship. The Clinical Training Booklet is then signed either by the supervising Professor/Associate of the Nursing Department, or by the Supervisor of the Training Agency.
- During the courses of Clinical Nursing I, II, III (Internship) taking attendance and in order to be considered a complete clinical placement, students should have attended 80% of the clinical placement days each semester and have delivered a patient care plan in the nursing care of which they participated.

1.21 Degree Grade - Declaration of Graduation

The degree grade (B) is calculated via the following form:

$$B = \frac{p_1 b_1 + p_2 b_2 + \ldots p_n b_n}{p_1 + p_2 + \ldots p_n}$$

whereby b1, b2, ..., bn are the passing grades of the student and p1, p2, ..., pn are the corresponding unit credits of each subject.

The courses included in the calculation of the degree are defined in the current Curriculum of the Department. In addition, courses which the student has possibly completed are considered optional and do not participate in the degree calculation, but are listed in the Diploma Supplement with their degree and credit. The student shall be declared graduate once all the conditions required for obtaining the degree have been fulfilled

1.22 Graduate Certificate - Transcript of Records –Diploma Supplement

In order to be eligible for the award of the diploma, students must submit an application to the Secretariat of the Department of Nursing and in order to participate in the graduation ceremony, they must have submitted to the Secretariat of their Department:

- a certificate from the Institution’s Library, stating that there are no books or other library materials due
- a student card, if available
- their academic identity, if issued

Upon completion of the required procedures, a certificate of successful completion is issued by the Secretariat of the Department, serving as a copy of a Degree or Diploma, and the award of the diploma is awarded after the graduation ceremony.

The form of the Bachelor's Degree or Diploma is common to the Departments of the University as defined in the chapter "ceremonial rules" of the Foundation's Rules of Operation.

The Diploma Supplement is also issued to all graduates of the Program of Studies at their request to the Secretariat.

1.23 Digital Skills Certificate

The Nursing Department does not provide digital skills certification.

STAFF OF THE DEPARTMENT

1.24 The Staff of the Department

The staff of the Department of Nursing is divided into Teaching and Educational Staff (D.E.P.), Special Technical Scientific Staff (E.DI.P.), Laboratory Teaching Staff (E.TE.P.) and Administrative Staff (A.S.) with corresponding responsibilities.
The Department of Nursing is staffed with 13 D.E.P. members.
The members of theTeaching and Educational Staff belong to four academic ranks: 6 Professors, 3 Associate Professors, 1 Assistant Professors and 3 Lecturers. At the same time, the educational process of the Department is also supported by temporary educational staff, which consists of Scientific Associates, Laboratory Associates and Academic Scholars.

TABLE of the EDUCATIONAL STAFF

A/A	FULL NAME	TITLE	SUBJECT AREA/ SPECIALTY
1.	Kourkouta Lambrini	Professor	Introductory Courses
2.	Bellali Thalia	Professor	Mental Health Nursing in Psychotraumatic Disorders
3.	Kazakos Kyriakos	Professor	Internal Medicine – Diabetes Mellitus
4.	Minos Georgios	Professor	Biosystemic and Biometry
5	Lavdaniti Maria	Professor	Clinical Nursing – Care for adults with cancer
6	Minasidou Evgenia	Professor	Nursing and Quality of Life of Chronical Ill
7	Tsaloglidou Areti	Associate Professor	Clinical Nursing Care and rehabilitation of patients with cardiopulmonary problems
8	Theofanidis Dimitrios	Associate Professor	Clinical Nursing and care for adults with neurological diseases
9	Kafkia Theodora	Associate Professor	Nursing and Nursing Care of people with renal problems
10	Moshos Ioannis	Assistant Professor	Internal Medicine – Gastroenterology
11	Liamopoulou Polyxeni	Lecturer	Nursing
12	Koukourikos Konstantinos	Lecturer	Clinical Nursing
13	Fountouki Antigoni	Lecturer	Clinical Nursing

TABLE of the ADMINISTRATIVE STAFF		
A/A	**FULL NAME**	
1)	Prodromidis Konstantinos	Head of the Secretariat
2)	Kyriklidis Efstathios	Sectretary (Student issues)

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Greece

Tel: 2310013821 & 822
FAX : -

e-mail : info@nurse.ihu..gr
URL:

1.25 Administration/Secretariat Office: Duties and working hours

The Department Secretariat is responsible for student and administrative matters.

Student services are provided on all working days, and during the hours of 10.00 am to 12.00 pm, at the offices of the Department Secretariat, located in the ground floor of the Nursing Department, in Alexander Campus, IHU.

Student issues include:

- Registration Procedures
- keeping the students' records, which include their grades, registration renewals every semester, and information about scholarships,
- granting Certificates and Degrees,
- granting certificates for legal use,
- issuing paper forms required for the students' Internship,
- creating/filling in student lists, according to their course enrolment declaration
- registration cancellations of students who have two consecutive non-renewal of registration or three non-consecutive non-renewal of registration

Regarding first-year student registrations, transfers and registration of those passing the qualifying exams in the Department Nursing of the I.H.U., the following apply:

Registration Renewals - Course Declarations are carried out through the Electronic Secretariat at the beginning of each Semester, and for a period of approximately fifteen (15) days. Each student

has his/her own personal code, obtained from the Department's Secretariat, with which s/he declares courses electronically.
After the lists of successful candidates in the National Examinations are sent by the Ministry of Education and Religious Affairs, the registration deadline for new entrants is set (common for all universities in Greece). This deadline should not be missed, otherwise latecomers lose the right to register. Registration of new entrants takes place in September.
Application for a number of other matters are submitted between 1 to 15 November each yaer. The applications are regarding:
- Transfers from other cities for financial, social, health reasons, etc., as well as for the children of large families, unless otherwise specified by law.
- Enrolment of other University Graduates, who succeeded in qualifying exams held every year at the beginning of December.

1.26 The Role of the Academic Advisor (Tutor)

The institution of the Academic Advisor (Tutor) has been implemented by the Department of Nursing for a long time. According to the regulation of the Academic Advisor (A.A.) of the International Hellenic University (IHU), which was approved by the Quality Assurance Unit of IHU with its decision No. 16/13.10. 2021, the Assembly of each Department assigns the duties of Academic Advisor (A.A.) to the faculty members of the Department at the beginning of the academic year (no later than 30 November) for each of the newly admitted students. Each year, by decision of the Department, a member of the Teaching and Educational Staff is designated an academic advisor for every first-year student for information and guidance in study matters. The academic advisor informs the students about his/her role and invites them to an introductory meeting. Students are required and encouraged to communicate regularly with their Academic Advisor,discuss educational issues and utilize his/her knowledge and experience throughout all the years of their studies.

The number of first-year students shall be evenly distributed among the faculty members and the selection is carried out in a random manner. In the Department of Nursing, the distribution of students to academic advisors is as follows: the number of first-year students is divided by the number of faculty members, resulting in the number of students per academic advisor. The students are then allocated alphabetically to the faculty members. As regards the admission of students with special requirements or special categories who are later enrolled in the departments, the process is repeated after such enrollments are completed.

A student's study advisor remains the same until the completion of his/her studies and provides guidance to the student so that he/she can deal with any problems that may arise during his/her studies. In case of absence of the study advisor for a long period of time (e.g. sabbatical leave, health problem, retirement), the assembly assigns the students of that advisor to another faculty member. In exceptional cases and upon documented request of the student or the Academic Advisor (A.A.), a new A.A. may be appointed with a request to the Departmental Secretariat in which the student states the reasons for the change. The request shall be considered at the first Assembly immediately after the submission of the request.

Alongside the assignments, the Assembly appoints one of the faculty members as the person responsible for the academic advisors (A.A.) in order to coordinate, support and monitor their work.

1.27 Evaluation of the Educational Project

The evaluation of the P.P.S. it is coordinated by the Internal Evaluation Group (IAG) of the Department of Nursing and supervised by the Quality Assurance Unit (QAU) of the University and is carried out according to the formulas and the procedure defined by the National Authority of Higher Education (ETHAAE) for Universities.

The internal evaluation - self-evaluation of the educational process and the P.P.S., consists of the systematic evaluation and recording of the teaching, research or other work by the Department of Nursing, in relation to its character, goal and mission.

Internal assessment is a periodically repeated process, involving members of academic staff and students, mainly through questionnaire responses, and may include interviews, group discussions and any other appropriate source of information. The process concludes with the drafting of the department's internal assessment report.

The evaluation of teachers and courses is done electronically through the relevant MO.DI.P application between the 9th and 11th week of classes. The procedure is as follows:

M.O.D.I.P. sends the OMEA and the President relevant information about the start of the evaluation period as well as printed information for teachers and students. With the start of the assessment teaching under the responsibility of the OMEA and the President, the instructions for the students are posted on the website of the Department of Nursing. The anonymity of student participation is ensured by the electronic form of the Department's teacher and course evaluation questionnaires through the relevant electronic application on the M.O.D.I.P. page. Before the lesson, the teacher connects to his institutional account on the website of M.O.D.I.P. and creates ratings for his courses that include our usage codes. He stores and prints the codes and during the lesson he randomly distributes the codes to the attending students and informs them again about the process and its benefits. Through the same information system of MO.DI.P., lecturers must complete the following inventory forms at the end of each semester and on dates announced by MO.DI.P., course inventory and teacher inventory.

The analysis of the questionnaires is carried out with complete confidentiality and with assurance of the privacy of personal data.

MO.D.I.P. issues aggregated statistical results concerning the P.P.S. and posts them on her website.

The detailed individual statistical results can be accessed through the MO.DI.P. application. the lecturers (for their courses), as well as the OMEAs and the President of the Department, for all the evaluations of the P.P.S.

The results of the statistical analyzes are issued by the information system of MO.DI.P. of the Foundation and allow the evaluation and improvement of the entire educational and learning process in P.P.S. of the Foundation in an objective and reliable manner. They also provide the required information for the implementation of more effective teaching techniques and the self-evaluation of the Department according to the international standards of control of services provided.

FACILITIES

1.28 Laboratory Spaces and Equipment

In the department of Nursing, there are 4 (four) laboratories, fully equipped for the practical and clinical placement of the students, related to nursing science. Also, through the laboratories, the doctoral students of the Department are given the opportunity to participate in the teaching of modules, which are related to their doctoral thesis under preparation.

1.29 Teaching Classrooms

The department has:

o Two (2) teaching auditoriums, with a capacity of 300 people, equipped with a ceiling projector, glass writing board, etc. These are in parallel use with the DIPAE's SEY departments.

o Five (5) classrooms.

o Shared meeting room with a capacity of 25 people, equipped with a video conferencing system.

All classrooms are equipped with blackboards and audio-visual materials, as well as internet. Also, in the context of the School of Health Sciences, it also uses laboratories of other relevant departments for specialized teaching subjects, such as e.g. the Anatomy.

1.30 E-Learning

In the framework of the course Principles of Informatics and applications in Health, electronic education is provided to the students of the Nursing department. Also, the School of Health Sciences (S.E.Y.) has a special room/laboratory for the e-learning of all S.E.Y. students.

In the Department of Nursing, students are also offered, in the context of e-learning:

- e-class Asynchronous course platform

- moodle Asynchronous course platform

1.31 Institutional Research Laboratories

Apart from the 4 (four) statutory laboratories, the department also operates 4 (four) research/university laboratories.

• The University (former research) laboratories that aim to promote scientific knowledge and research, as recorded in their regulations but also to provide services to society (health services, information for special populations -oncology patients-, care of vulnerable groups, water pollution and purification). The Department of Nursing has a research laboratory installed in a Hospital and thus contributes beyond research and education to the provision of health services.

1) Laboratory "Diabetes and Metabolism" lab.diabetes.ihu.gr.

2) "Biology & Histology, Microscopy & Image Analysis, Systematics & Biometry" Laboratory - B.I.M.A.SY.B". http://biolab.nurse.teithe.gr/

3) Laboratory "Care of Adult Patients with Cancer" http://feaklab.nurse.ihu.gr/

4) Neurological Nursing Research Laboratory: "Neurological diseases and nursing research interventions" http://labneuro.nurse.ihu.gr/

Information about the actions, operational goals, staff are available on the website of each laboratory.

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THE UNDERGRADUATE STUDY PROGRAM

The Undergraduate study program of the Department of Nursing is presented in the following tables

1.32 Table I. An Overview of the Undergraduate Study Program

1o	2o	3o	4o	5o	6o	7o	8o	ECTS
Introduction to nursing science	Anatomy II	Medical Nursing I	Medical Nursing II	Paediatric Nursing	Mental Health Nursing	Ethcis and Deontology of Nursing Science	Community Nursing II	
Anatomy I	Physiology II	Surgical Nursing I	Surgical Nursing II	Oncology Nursing	Nursing Management/Management of Healthcare Services	Writing a scientific essay	Elderly Nursing Care	
Physiology I	Basic Principles of Nursing	Interrnal Medicine II	Epidemiology – Public Health	Research methodology in Nursing	Emergency Nursing/Intensive Care Nursing	Teaching methods in nursing	Clinical Nursing III (internship)	
Biology	Community Nursing/Health Promotion	Surgery I	First Aid	Paediatrics	Clinical Nursing I (internship)	Women health – Maternity nursing	Health Economics	
Microbiology	Internal Medicine I	Health Sociology	Principles of Informatics and Applications in Health	Nursing Rehabilitation of People with Chronic Health Problems	Genetics	Clinical Nursing II (internship)	Mollecular Analysing Techniques (elective)	30
Biostatistics	Pharmacology	Communication in Healthcare Settings	Surgery II	Nursing Diagnostics/Semiology	History of Nursing	Cardiology Nursing	Palliative Care in Nursing (elective)	
Health Psychology		Nursing Theories (elective)	Nursing of Respiratory, Thorax and Vascular Diseases	Gastroenterology (elective)	Diabetes Mellitus (elective)	Counceling in Nursing	Nutrition/Dietitics (elective)	
		Blood donation in Nursing (elective)	Infections in Healthcare settings (elective)	Quality Assurance in Nursing Practice (elective)		Perioperative Nursing (elective)	Neurology/Neurosurgery Nursing (elective)	
			Transcultural Nursing	Renal Nursing		School Nursing (elective)		
			Foreing Language/Terminlogoy	Crisis Management in Nursing				

General background

Special background

Specialised nursing cources (knowledge and skills development in the field of nursing science

Mandatory cources	Elective courses	Total cources needed
43	22 (available)	65
43	10 (mandatory for degree)	53

1.33 Table II. Elective Courses

SEMESTER	NURSING SPECIALTY COURCES	SPECIAL BACKGROUND COURSES	GENERAL BACKGROUND COURSES	MODES OF CHOICE (EX. 1 OF 3 COURSES)
Γ		Nursing Theories		Compulsary Elective
		Blood donation in nursing	Communication in healthcare	Compulsary Elective
Δ	Nursing of Respiratory, Thorax and Vascular Diseases	Infections in Healthcare Settings	Foreingn Language-Terminology	Compulsary Elective
		Transculltural Nursing		Compulsary Elective
				Compulsary Elective
Ε	Renal Nursing	Gastrenterology		Compulsary Elective
		Crisis management in nursing		Compulsary Elective
		Quality assurance in nursing practice		Compulsary Elective
ΣΤ		Diabetes Mellitus	Genetics	Compulsary Elective

			History in Nursing	Compulsary Elective
Z	Cardiology Nursing	Counceling in Nursing		Compulsary Elective
	Perioperative Nursing			Compulsary Elective
	School Nursing			Compulsary Elective
H	Neurology/Neurosurgery Nursing	Mollecular Analysing Techniques		Compulsary Elective
		Palliative Care in Nursing		Compulsary Elective
		Nutrition/Dietitcs		Compulsary Elective

1.34 Undergraduate Study Program per Semester

1st Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190101	INTRODUCTION TO NURSING SCIENCE	SB (MC)	4	0	3	7	300	10
2.	278-190102	ANATOMY I	GB (MC)	3	0	1	4	120	4
3.	278-190103	PHYSIOLOGY I	GB (MC)	3	0	1	4	150	5
4.	278-190104	BIOLOGY	GB (MC)	3	0	0	3	90	3
5.	278-190105	MICROBIOLOGY	GB (MC)	3	0	0	3	90	3
6.	278-190106	BIOSTATISTICS	GB (MC)	2	0	1	3	90	3
7.	278-190107	HEALTH PSYCOLOGY	GB (MC)	2	0	0	2	60	2

NOTES

GB: *general background*
SB: *special background*
SD: specialised general knowledge, skills development

MC: Mandatory Courses
EC: Elective Courses
OC: OptionalCourses

2nd Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1	278-190201	ANATOMY II	GB (MC)	2	0	1	3	90	3
2	278-190202	PHYSIOLOGY II	GB (MC)	2	0	0	2	90	3
3	278-190203	FUNDAMENTALS OF NURSING SCIENCE	SD(MC)	4	0	3	7	270	9
4	278-190204	COMMUNITY NURSING/HEALTH PROMOTION	SD (EC)	4	0	4	8	270	9
5	278-190205	INTERNAL MEDICINE I	SB (MC)	3	0	0	3	90	3
6	278-190206	PHARMACOLOGY	GB (MC)	3	0	0	3	90	3

3rd Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190301	INTERNAL NURSING I	SD (MC)	4	0	4	8	270	10
2.	278-190302	SURGICAL NURSING I	SD (MC)	4	0	4	8	270	10
3.	278-190304	INTERNAL MEDICINE II	SB (MC)	3	0	0	3	90	3
4.	278-190305	SURGEGY I	SB (MC)	3	0	0	3	90	3
5.	278-190306	HEALTH SOCIOLOGY	GB (MC)	2	0	0	2	90	3
6.	278-190307	NURSING THEORIES	SB (EC)	2	0	0	2	60	2
7.	278-190308	COMMNUNICATION IN HEALTHCARE	GB (MC)	2	0	0	2	60	2
8.	278-190309	BLOOD DONATION IN NURSING	SB (EC)	2	0	0	2	60	2

4th Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190401	INTERNAL NURSING Ii	SD (MC)	4	0	4	8	240	8
2.	278-190402	SURGICAL NURSING Ii	SD (MC)	4	0	4	8	240	8
3.	278-190403	EPIDEMIOLOGY-PUBLIC HEALTH	GB (MC)	2	0	0	2	60	2
4.	278-190404	FIRST AID	SD (MC)	2	0	1	3	90	3
5.	278-190405	PRINCIPLES OF INFORMATION TECHNOLOGY AND APPLICATIONS IN HEALTH	GB (MC)	2	0	1	3	90	3
6.	278-190406	SURGERY II	SB (MC)	2	0	0	2	60	2
7.	278-190407	NURSING OF RESPIRATORY, THORACIC AND VASCULAR DISEASES	SD (EC)	2	0	0	2	60	2
8.	278-190408	INFECTIONS IN HEALTHCARE SETTINGS	SB (EC)	2	0	0	2	60	2
9.	278-190409	FOREING LANGUAGE – TERMINOLOGY	GB (EC)	2	0	0	2	60	2
10.	278-190410	TRANSCULTURAL NURSING	SB (EC)	2	0	0	2	60	2

5th Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190501	PAEDIATRIC NURSING	SD (MC)	4	0	6	10	300	10
2.	278-190502	ONCOLOGY NURSING	SD (MC)	3	0	0	3	150	5
3.	278-190503	RESEARCH METHODOLOGY IN NURSING	SB (MC)	2	0	1	3	90	4
4.	278-190504	PAEDIATRICS	SB (MC)	3	0	0	3	90	2
5.	278-190505	NURSING DIAGNOSTIC AND SEMIOLOGY	SD (MC)	3	0	0	3	90	3
6.	278-190506	NURSING REHABILITATION OF PEOPLE WITH CHRONIC HEALTH PROBLEMS	SB (MC)	2	0	0	2	60	2
7.	278-190507	GASTROENTEROLOGY	SB (EC)	2	0	0	2	60	2
8.	278-190508	RENAL NURSING	SD (EC)	2	0	0	2	60	2
9.	278-190509	CRISIS MANAGEMENT IN NURSING	SB (EC)	2	0	0	2	60	2
10.	278-190510	QUALITY ASSURANCE IN NURSING PRACTICE	SB (EC)	2	0	0	2	60	2

6th Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190601	MENTAL HEALTH NURSING	SD (MC)	4	0	4	8	240	8
2.	278-190602	NURSING MANAGEMENT/HEALTHCARE MANAGEMENT	GB (MC)	3	0	0	3	90	3
3.	278-190603	EMERGENCY NURSING/INTENSIVE CARE NURSING	SD (MC)	4	0	6	10	300	10
4.	278-190604	CLINICAL NURSING I (CLINICAL INTERNSHIP I)	SD (MC)	0	0	7	7	210	7
5.	278-190605	GENETICS	GB (EC)	2	0	0	2	60	2
6.	278-190606	DIABETES MELLITUS	SB (EC)	2	0	0	2	60	2
7.	278-190607	HISTORY OF NURSING	SB (EC)	2	0	0	2	60	2

7th Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190701	ETHICS AND DEONTOLOGY IN NURSING SCIENCE	GB (MC)	2	0	0	2	60	2
2.	278-190702	WRITING AN ACADEMIC ESSAY	GB (MC)	2	0	2	4	150	5
3.	278-190703	TEACHING METHODS IN NURSING	GB (MC)	2	0	0	2	60	2
4.	278-190704	WOMEN HEALTH/MATERNITY NURSING	SD (MC)	3	0	0	3	90	3
5.	278-190705	CLINICAL NURSING II (CLINICAL INTERNSHIP II)	SD (MC)	0	0	14	14	420	14
6.	278-190706	CARDIOLOGY NURSING	SD (EC)	2	0	0	2	60	2
7.	278-190707	COUNCELING IN NURSING	SB (EC)	2	0	0	2	60	2
8.	278-190708	PERIOPERATIVE NURSING	SD (EC)	2	0	0	2	60	2
9.	278-190709	SCHOOL NURSING	SD (EC)	2	0	0	2	60	2

8th Semester

	CODE	COURSE	COURSE TYPE	theory	practice works	Laboratory works	Hours per week	Course total	ECTS
1.	278-190801	COMMUNITY NURSING	SD (MC)	4	0	4	8	240	8
2.	278-190802	NURSING CARE FOR THE ELDERLY	SD (MC)	2	0	0	2	60	2
3.	278-190803	CLINICAL NURSING III (CLINICAL INTERNSHIP III)	SD (MC)	0	0	14	14	420	14
4.	278-190804	HEALTH ECONOMICS	GB (MC)	2	0	0	2	60	2
5.	278-190805	MOLECULAR ANALYSIS TECHNICS	SB (EC)	2	0	0	2	60	2
6.	278-190806	PALLIATIVE CARE IN NURSING	SB (EC)	2	0	0	2	60	2
7.	278-190807	NUTRITION / DIETICS	SB (EC)	2	0	0	2	60	2
8.	278-190808	NEUROLOGY/NEUROSURGICAL NURSING	SD (EC)	2	0	0	2	60	2

9. POSTGRADUATE STUDY PROGRAMS IN THE DEPARTMENT

Two (2) postgraduate study programs are currently offered in the Department of Nursing, School of Health Science.

- Diabetes Mellitus Care
- Management of Healthcare and Welfare Services

8.1 Postgraduate study program in Diabetes Mellitus Care

The Postgraduate Studies Program (PSP) entitled: “Diabetes Mellitus Care” is carried out by the Department of Nursing of the International University of Greece (IHU) and grants a Postgraduate Master’s Degree (MSc) in “Diabetes Mellitus Care” and in one of two specializations: “Clinical Diabetelogy” or “Therapeutic Education in Diabetes Mellitus”.

9.1.1 History

The Postgraduate Studies Program (PSP) entitled: Care in Diabetes is one of the first programs that operated at the former Alexandrio Technological Educational Institute of Thessaloniki, in the Department of Nursing. It was founded by Law Degree 2802/T.B. 17-10-2012 and accepted the first students in March 2013. It was re-established in 2018 with FEK Issue B' 4160/21.09.2018, continuing to belong to the Department of Nursing of the former Alexandrio TEI of Thessaloniki. With the establishment of the International University of Greece (FEK 4610/2019), the PSP is owned and operated by the Department of Nursing of DIPAE (FEK 33305/t.B./7-08-2020 and FEK 5435/t.B./22-11-2021).

The Postgraduate Studies Program since its establishment has awarded to the society more than 300 health professionals with specialized knowledge and skills in managing people with diabetes mellitus, with currently 40 students studying.

In the last three years, the PSP underwent restructuring of its curriculum, the implementation of which was under strict continuous supervision. The current graduate curriculum, concerns students, who entered the Department from the academic year 2019-2020 onwards.

9.1.2. Goals and Objectives of the Postgraduate study program

The PSP entitled: “Diabetes Mellitus Care” of the Department of Nursing operates under the provisions of Articles 79 to 89 of the N. 4957/2022 (A’ 141). Part of the instruction of courses is carried out by distance learning through modern and asynchronous educational methods and technologies, in accordance with the applicable legislation.
The PSP is intended to provide postgraduate education in Diabetes Mellitus (DM), so that the graduates of PSP gain a strong scientific background, experience and know-how for the subject:

(a) high-level training of scientists to be able to successfully manage key areas related to the management of DM and to make a significant contribution to a particularly important and constantly evolving health sector.

(b) the development and promotion of research in all fields relating to Diabetes Mellitus.

In the National Health System today, for the treatment of DM operates a significant number of Diabetes Centers and Clinics, most of which are understaffed and have significant deficiencies of special scientific staff (doctors, nurses, dietitians, psychologists). But also in the private health sector, the rapid increase in the incidence of DM requires and cultivates the conditions for the creation of strains specialized in DM. PSP graduates will acquire the necessary skills for a successful career as executives in both the private, public and academic fields.

9.1.3. The postgraduate degree awarded

The Postgraduate Program gives:

Upon completion of the PSP, a Diploma in Postgraduate Studies is awarded in "Diabetes Mellitus Care " in one of the two specializations:
· "Clinical Diabetology"
· "Therapeutic education in DM"
The opportunity is given to graduate students, after obtaining the Board of Directors, to continue their studies in order to obtain a PhD in relevant Greek or foreign Universities.

9.1.4. Admissions

The PSP accepts - if they fulfill the necessary conditions - graduates of the Departments of Nursing, Medicine, Dentistry, Pharmacy, Physical Education & Therapy, Nutrition, Psychology and other relevant scientific disciplines of Higher Educational Institutions of the national or recognized Federal Institutions of the Rest of the World as well as Higher Military Schools.
PSP students, who are graduates of Departments with a poor scientific background in the main subjects of the program, are required to attend infrastructure courses of the undergraduate program of the Department of Nursing. Infrastructure courses are defined as: Pathology, Physiology, Pathological Nursing. Attendance of these courses is mandatory and will be carried out either by attending the lectures' traditions in the undergraduate program or by completing a work and final examination in the course.

9.1.5. Duration of studies

The minimum duration for the award of the Board is defined in three teaching semesters. The maximum time of study in PSP cannot exceed five teaching semesters.

9.1.6. Course schedule per semester

Curriculum Analysis
SPECIALIZATION: "CLINICAL DIABETOLOGY"

1^{O} SEMESTER			
α/α	**Code**	**SUBJECT TITLE**	**ECTS**
1	MK1	Epidemiology- Physiopathology of DM	5
2	MK2	Self Control in DM	5
3	MK3	Microvascular and Macrovascular complications of DM	5
4	ME1	Health Sciences Research Methodology	5
5	ME2	Nutritional care DM	5
6	ME3	Psychological approach to chronic diseases	5

2Ο SEMESTER			
α/α	**Code**	**SUBJECT TITLE**	**ECTS**
1	MK4	Biostatistics-Health Informatics	5
2	MK5	Exercise in DM	5
3	MK6	Diabetic foot	5
4	ME4	Diabetes in special patient groups	5
5	ME7	Medication in DM	5
6	MK8	Insulin therapy-insulin pumps	5

SPECIALIZATION "THERAPEUTIC EDUCATION IN DIABETES MELLITUS" 1Ο SEMESTER			
α/α	**Code**	**SUBJECT TITLE**	**ECTS**
1	MK1	Epidemiology - Pathogenicity DM	5
2	MK2	Self-Monitoring in DM	5
3	MK3	Microvascular and Macrovascular complications of DM	5
4	ME1	Health Sciences Research Methodology	5
5	ME5	Nutritional care and exercise in DM	5
6	ME3	Psychological approach to chronic diseases	5
2Ο SEMESTER			
α/α	**Code**	**SUBJECT TITLE**	**ECTS**
1	MK4	Biostatistics-Health Informatics	5
2	ME6	Childhood & Adolescence - School & DM	5
3	ME7	Health Care Therapy to Prevent DM	5
4	ME4	Diabetes in special patient groups	5
5	ME8	Care Plans in DM	5
6	MK9	Education of patients with DM and Insulin Therapy	5

3rd - SEMESTER

Post-graduate Dissertation or Clinical Placement

9.1.7. Number of admissions

Forty (40) postgraduate students are expected to enter the two specializations, at a rate of 35-65% per specialization if possible. The maximum number of postgraduate students will not be more than 5 postgraduate students per teacher. The maximum number of postgraduate students in the set of PSP operating in the department will not exceed the number of students per year admitted to the undergraduate department of nursing, so as to ensure the quality of all courses in the department.

9.1.8. The staff

The PSP "Diabetes Mellitus Care" of the Department of Nursing operates independently and is administered by the following bodies:

· The Governing Committee or the Senate of the IPA.

· The Assembly of the Department of Nursing
· PSP Steering Committee
· The Graduate Studies Committee of the IHU
· The Director of the PSP

The teaching of the courses in the Postgraduate School is undertaken by:
(a) Members the Teaching Research Staff, Special Educational Staff, Laboratory Teaching Staff and Special Technical Laboratory Staff of the Department or other Departments of the IHU or of another Higher Educational Institution or of a Military Higher Educational Institution.
(b) Peer Professors or Retired Members of the Department or other Departments of the same or another university,
(c) Visiting professors or visiting researchers,
(d) Scientists of recognized standing who have specialized knowledge and relevant experience in the subject of the University of Thessaloniki. By decision of the Department Assembly, the Department may be awarded a teaching grant to the doctoral candidates of the Department or the School, under the supervision of a teacher of the Faculty."

The assignment of the courses, seminars and exercises of the PM is decided by the Assembly of the Department of Nursing on the recommendation of the Director.
The Director of the Master's Degree Program is appointed along with a Deputy, by decision of the Department's Assembly for a two-year term. He presides over the S.C. as a member of the Board of Directors.
The Coordinating Committee for a two-year term has five-members and is elected by the Assembly of the Department.
The PSP's teaching staff includes the members of the PSP who serve in the Department of Nursing. In particular there are 6 Professors, 3 Associate Professors, 1 Assistant Professor and 3 Lecturers of Applications (of which 2 do not hold a doctorate). In order to meet the educational needs of the PSP "Diabetes Care", there are also teaching staff partners from other universities and external partners with specialized knowledge in the subject of PSP. The obligations of the teachers include, inter alia, the description of the course or lectures, the citation of relevant literature, the way of examining the course and communication with the graduate students

Secretariat

The administrative support of the PSP is undertaken by the Secretariat of the PSP, which cooperates with the Secretariat of the Department of Nursing. It handles current issues relating to teaching staff, students, curricula, communication with various services within the Foundation, such as the Research Committee, but also collaborating Institutions and takes care of the public relations and events of the program. The progress of students and their administrative affairs are monitored by the Secretariat of the PSP, through the "unitron" information system. The PSP Secretariat operates the system through which all the necessary functions for the students' studies are performed such as issuing necessary documents, issuing analytical scores, copies of degrees etc.

9.2. Postgraduate study program in Management of Healthcare and Welfare Services

The Interdepartmental Postgraduate Program (MSc) in Health Services Management is implemented by two collaborating Departments of the International Hellenic University: the Department of Organisation Management, Marketing & Tourism and the Department of Nursing.
The MSc is offered by a public university and provides high quality teaching, research and specialization of the scientific potential in the interdisciplinary field of Health and Welfare Management.

9.2.1 History

The interdepartmental master's program in health and welfare management was established in 2018. It was developed in close collaboration with experts and professors from Greek and international universities, with expertise in health management, health and welfare policy and strategy, and health economics. In addition, sectoral and scientific institutions of the three levels of education, as well as national and international universities participated in the development of the postgraduate program. High quality teaching is offered through flexible forms of education (face-to-face courses one weekend per month combined with flexible, distance and online teaching methods). This enables the working postgraduate student to combine work and study in harmony and to develop to a greater extent their knowledge and skills in different areas of healthcare management.

9.2.2. Goals and Objectives of the Postgraduate study program

The aim of the MSc is, on the one hand, to produce knowledge in the scientific field of Health Care Management and, on the other hand, to transfer it to the postgraduate students attending the programme, thus achieving the broader objective of this Interdepartmental Postgraduate Studies Program.
The aim of the Program is to provide Greek society and the health and welfare administration sector with high quality executives who will be able to meet the requirements of the relevant public and private enterprises and organisations for qualified human resources. In this way, it will contribute both to the sustainable social and economic development of the country and to the upgrading of the health and welfare system.
More specifically, the MSc aims to:
1. Provide high quality interdisciplinary postgraduate education to students who, upon completion of their studies, will be able to successfully staff a wide range of areas related to the management of health and welfare units, in order to contribute decisively to the production and management of integrated administrative solutions and applications.
2. Develop, disseminate and promote interdisciplinary research in all sub-disciplines of health and welfare management.

9.2.3. The postgraduate degree awarded

The Interdepartmental Postgraduate Studies Program (IPSP) awards a Diploma of Postgraduate Studies (MSc) in Health and Welfare Management with specialisation in:
- Quality and Evaluation of Staff and Health and Welfare Units

- Public Health Management and Quality of Health Care and Quality Assurance in Health Care and Health Promotion
- e-Health management

9.2.4. Admissions

Graduates of higher education institutions (Universities and TEI) in Greece or equivalent recognised institutions in other countries can participate in the Interdepartmental Postgraduate Programme in Health and Welfare Services Management (for graduates of foreign institutions, recognition of the degree by the International Organisation for the Recognition of Higher Education or the International Council for the Recognition of Higher Education is required).
Undergraduate students who have passed the examinations for all their courses and have only their degree pending may also apply to the IPSP. To participate in the selection process, these students must provide a certificate from the secretariat of their department that they have completed their studies and indicate the degree they have obtained. The only outstanding issue will be the swearing-in ceremony. Their registration will be confirmed when they provide a copy of their degree.
According to Law 3685, Government Gazette 148, Vol. A, 16-07-2008, Article 4, Para. 3, in addition to the number of candidates, the following are admitted:
One (1) scholarship holder of the State Scholarship Foundation (I.K.Y.) who succeeded in a relevant competition for postgraduate studies in the subject of the MSc and one (1) foreign scholarship holder of the Greek State. The number of scholarship holders may be increased by decision of the Special Interdepartmental Committee of the MSc.

9.2.5. Duration of studies

The minimum duration of study for the award of the Diploma of Postgraduate Studies is three (3) semesters, including one semester of study for the thesis.
The MSc "Management of Health & Welfare Units" is developed in 3 semesters of study, each lasting 13 weeks. In the first two semesters, students attend a total of 10 courses (i.e. 5 courses per semester), while in the third semester they prepare their master's thesis or attend two courses of increased importance. Each course lasts 3 hours and corresponds to 6 European Credit Transfer System (ECTS) credits. The Master's thesis corresponds to 30 ECTS credits. The total volume of studies in the MSc corresponds to 90 ECTS credits.

9.2.6. Course schedule per semester

The courses per semester and per speciality are as follows (The department in brackets refers to the department of origin of the lecturers of the course):

Specialty: Quality and Evaluation of Staff and Health and Welfare Units

First semester

Marketing of Health Care Units (Department of Organisation Management, Marketing & Tourism - OMMT)

Introduction to Research Methodology (OMMT Department)

Management of Healthcare Units (OMMT Department)

Principles - Fundamentals of Economic Theory (OMMT Department)

Social policy (Department of Nursing)

Second semester

Leadership and Human Resource management (OMMT Department)

Health Psychology (Department of Nursing)

Evaluation of Services and Staff (Department of Nursing)

Health Systems in the European Union (Department of Nursing)

Quality management of health services (OMMT Department)

Specialisation: Public Health Management

First Semester

Marketing of Health Care Units (OMMT Department)

Introduction to Research Methodology (OMMT Department)

Management of Health Care Units (OMMT Department)

Health Law (Department of Nursing)

Evaluation of Services and Staff (Department of Nursing)

Second Semester

Strategic Management (OMMT Department)

Hygiene and Safety (Department of Nursing)

Health Economics (OMMT Department)

Sociology of Health (Department of Nursing)

Health Service Quality Management (OMMT Department)

Specialization: eHealth Management

First Semester

Digital Marketing of Health Care Facilities (OMMT Department)

Introduction to Research Methodology (OMMT Department)

Health Care Management (OMMT Department)

Introduction to Management Information Systems in Health and Welfare Units (OMMT Department)

Bioethics (Department of Nursing)

Second semester

Innovation in Health Care (OMMT Department)

Security of Information Systems in Health Care (Department of OMMT)

Telemedicine (Department of Nursing)

Project Management in Health Care Units (Department of OMMT)

Personal Data Management in Health Care (OMMT Department)

Third semester

As an alternative to the master's thesis, students may attend and pass the two courses of increased importance in the third semester (common to all fields of specialization):

Qualitative and quantitative analysis of survey data (15 credit hours E.C.T.S.) (OMMT Department)

Anti-corruption in public administration (15 credit hours) (OMMT Department)

9.2.7. Number of admissions

Each student is accepted from the outset in only one of the three (3) fields of specialization offered by the MSc, and each student clearly indicates in the application form submitted to the MSc Secretariat the field he/she has chosen. The invitation to admit new students may be made as follows: one (1) invitation to admit students in the three fields of specialization (30 students/field) in the fall academic semester, and/or one (1) invitation to admit students in the three fields of specialization (30 students/field) in the spring academic semester. The maximum number of students admitted in each call (fall and/or spring) and in each field of specialization is thirty (30) students. Therefore, the total number of students admitted to the fall semester call may be 3 fields x 30 students = 90 students and the total number of students admitted to the spring semester call may be 3 fields x30 students = 90 students. The call may be held once

per academic year with a total number of admissions per academic year: 180 students. Each candidate may apply for only one field of the program and will be evaluated for that field. The results of the evaluation of the application files are processed and communicated by field. If the number of successful candidates does not reach the number of candidates in a given field, this number may be supplemented - by decision of the selection board - by candidates in another field on the basis of their ranking, if they so wish.
The method of selection of admission is based on the marking of the candidates 'files, in accordance with the legislation in force and the relevant provisions of the Rules of Studies of this MSc and is described in detail in the notice for the admission of new postgraduate students.

9.2.8. The staff

The teaching staff of the Interdepartmental MSc in Health and Welfare Management is of very high quality and fully meets the requirements of the postgraduate program. Specifically, 80% of the teaching staff of the MSc are faculty members (Professors) and lecturers of the the Department of Organisation Management, Marketing & Tourism and the Department of Nursing or contract lecturers according to article 19 of Law No. 1404/1983 (A 173) or paragraph. 1404/194/1983, Article 7 of Article 29 of Law No. 1404/1983, Article 29 of Law No. 4009/2011.
In the context of the continuous upgrading and extroversion of the MSc, additional faculty members (Professors) from Greek and foreign universities as well as distinguished scientists holding a PhD degree are invited to teach. Therefore, the training provided is completed with the support of distinguished faculty members from other universities and scientists in the subject area of the MSc.

DOCTORAL STUDIES in the DEPARTMENT

Eligibility criteria

The Doctoral Studies of the Department of Nursing aim to train doctoral candidates in the fields of Health Sciences in general, who will have the ability to independently and autonomously advance science, research and lead to the award of a doctoral degree.

Duration

More information can be found in the regulations for doctoral studies on the Department's website. Doctoral Studies followe the current laws of the Hellenic State and the Rules of IHU.
Holders of a university degree in health and other sciences or a master's degree are eligible to apply, provided that the subject of the doctoral thesis contributes to the development of knowledge in nursing science and promotes nursing in general.
Doctoral Studies in the Department of Nursing aim at the training of Doctors in the fields of Health Sciences in general, who will have the possibility of independent and autonomous promotion of science, research and lead to the acquisition of a Doctorate Degree.
The duration of the Doctoral Studies is at least three (3) full calendar years from the date of appointment of the Three-member Advisory Committee and the maximum time is six (6) years. The above period may be extended for two (2) additional years, upon application by the candidate and a documented decision of the Department's Assembly.

Past regulations for doctoral studies is FEK 1324/τ.Β/5-4-2021 and in its modification, FEK1755/τ.Β/20-3-2023.

More information can be found in the modification of regulations for doctoral studies (FEK 4238/τ.Β/19-7-2024) as well as in the Department's website (http://www.nurse.teithe.gr/didaktorikofek.pdf, http://www.nurse.teithe.gr/didaktorikoentipa.php)

9.3. European Programs Office (Erasmus)

The Office of European Programs (Erasmus) operates on the grounds of the Alexandria Campus (in the building of the Midwifery Department of S.E.Y.).
In the framework of the Erasmus program, the Erasmus+ academic coordinator of the Department is responsible for the selected students. The latter complete the mobility agreement for internship, which includes the tasks and the program of their training during their stay at the host institution.
Furthermore, the student provides a diary of daily activities, an evaluation report of the person in charge of the organization in which he/she prefromed their internship, and an evaluation report of the person in charge of the host university.
For those students who attended theoretical courses within the framework of the Erasmus program, the recognition of the student's courses is done after the end of the mobility, according to the European Credit Transfer System (ECTS). The Erasmus+ academic coordinator of the Department draws up the study recognition certificate based on the official score and ECTS sent by the collaborating Institution. Based on this, the grades in the respective courses of the Department's Study Program are registered by the Secretariat.

9.4. Library

The students of the Department of Nursing can use for their educational needs and for study the Central library of DIPAE which operates on the premises of the Alexandria Campus.
They can also use the Library of the School of Health Sciences, housed in the Midwifery building.

9.5. Student Restaurant

The Student Restaurant operates throughout the year. It covers the needs of all students who are entitled to free meals as well as the rest for a fee determined in cooperation with the DIPAE administration.
It also covers the needs of students living in the Student Dormitory.
Also, for the students who live in the city of Thessaloniki there are 2 (two) restaurants, which they can use for their meals, under the same terms and conditions that apply to the Student Resaturant of the Alexandria Campus.

9.6. Student Dormitory

For students who meet the conditions provided by law, a Student Dormitory operates within the Alexandria Campus providing them with free accommodation and food (in the Student Restaurant). Two (2) students live in each room of the Student Dormitory.

9.7. Student Health Care Service

Free medical care is provided to the students of the Department of Nursing and in general to all students of DIPAE. Also, the main building of the Alexandria Campus houses the DIPAE Clinic.

9.8. The University Gym

The Alexandria Campus in Sindos houses a Gym for use by all DIPAE students, from any department and faculty.

9.9. Sports and Cultural Activities

Various sports and cultural activities (choir) are held at the DIPAE Alexandria Campus, in which all DIPAE students can participate

9.10. Network Operations Center (NOC)– Electronic Services

The Network Operations Center (NOC) is housed in a special area of the Alexandria Campus of DIPAE in Sindos and provides Electronic Services to all departments and schools to meet the needs of all students of DIPAE.
The Department of Nursing in particular offers important services to its students such as:
- e-class Asynchronous course platform
- moodle Asynchronous course platform
- e-secretariat
- e-Mail
- e-Books (Eudoxus)
- e-library / DIPAE Central Library

12. INTERNATIONAL DIMENSION and PARTNERSHIPS

The Department of Nursing of DIPAE promotes mobility and cooperation with other similar departments at home and abroad. The Department has concluded bilateral cooperation agreements with Higher Education Institutions abroad in the context of student and teacher mobility, through the ERASMUS, Erasmus Mundus program. and Erasmus plus. During the last five years, 10 faculty members from other Educational Institutions visited the department as part of academic activities. Accordingly, in the same period, 66 students from other countries conducted part of their theoretical studies and their laboratories in the Nursing department of DIPAE.

13. REFERENCE to the DEPARTMENT and UNIVERSITY REGULATIONS

The Department of Nursing has the following rules that are presented in the following link included in the Department's website

Academic Councelor Rules:

http://www.nurse.teithe.gr/%CE%9A%CE%91%CE%9D%CE%9F%CE%9D%CE%99%CE%A3%CE%9C%CE%9F%CE%A3_%CE%91%CE%9A%CE%91%CE%94%CE%97%CE%9C_%CE%A3%CE%A5%CE%9C%CE%92.pdf

Professional Rights: http://www.nurse.teithe.gr/dikaiomata.php

Practical Internship, mobility, essay rules

http://www.nurse.teithe.gr/%CE%9A%CE%91%CE%9D%CE%9F%CE%9D%CE%99%CE%A3%CE%9C%CE%9F%CE%A3_%CE%A0%CE%A1%CE%91%CE%9A%CE%A4%CE%99%CE%9A%CE%97%CE%A3_%CE%9A%CE%99%CE%9D%CE%97%CE%A4.pdf

Rules of studies:
http://www.nurse.teithe.gr/%CE%9A%CE%91%CE%9D%CE%9F%CE%9D%CE%99%CE%A3%CE%9C%CE%9F%CE%A3_%CE%A3%CE%A0%CE%9F%CE%A5%CE%94%CE%A9%CE%9D.pdf

Nursing Ethics Code: http://www.nurse.teithe.gr/deontologia.php

Nursing duties: http://www.nurse.teithe.gr/duties.pdf

14. APPENDIX: DETAILED COURSES OUTLINE

The courses outlined are presented.

14.1. 1st SEMESTER

INTRODUCTION TO NURSING SCIENCE (code 278-190101) (Special Background, mandatory)

Module aims

Students will understand the concept of "Nursing" as a science and as a person–centered care process aimed at maintaining, promoting and restoring health. They will also be able to provide the knowledge necessary to contribute to the psychosocial approach and education of patients as a biopsychosocial being. Upon successful completion of the laboratory course, the student will be able to apply communication skills, in the information gathering process such as collecting and accurately recording nursing history data, and plan care according to the Nursing Process. They will also practice taking and documenting vital signs on the chart.

Module outline (THEORY) (4 hours, 5 ECTS)

- Introduction to Nursing Science: definitions-aims of nursing. Nursing in health and disease. Factors affecting health. Promoting wellbeing in health and illness
- Levels of primary, secondary and tertiary prevention. A holistic approach to health.
- Basic human needs: individual, family, community. Individual defense mechanisms
- Communication process, types of communication, influencing factors
- Communication in Nursing Process, factors that promote effective communication. Development of therapeutic skills and communication techniques
- Physical examination, vital signs. Practice
- Study and documentation of vital signs chart. Practice
- Nursing Process: stages of Nursing Process, documentation, characteristics of Nursing Process
- Nursing assessment, methods of data collection (observation, interview, nursing history)
- Nursing Diagnosis: Statement, Validation and Hierarchical Ordering of Nursing Diagnoses.
- Recording of Nursing Care Plan. Student practice
- Review course

Written exams

Module outline (LAB) (3 hours, 5 ECTS)

- Communication. Types of communication and scenarios. Establishing a therapeutic relationship and therapeutic environment.

- Communication and nursing process. Development of therapeutic communication skills and techniques-avoiding barriers. Practice.

- Nursing Process. Stages, characteristics, documentation, recording, exercises with concrete examples (NANDA and NOC nursing diagnoses)

- Physical examination. Taking and recording Vital Signs, thermometric chart, student practice.

- Principles of asepsis, antisepsis, sterilization. Hand hygiene, Sterile gloves.

- Methods of administering medicines, instructions abbreviations, filling in the medicine card.

- Review course

- Lab Evaluation

Written exams

ANATOMY I (code 278-1901002) (Genaral Background, mandatory)

Module aims

The aim of the module is to familiarize students with the fundamental concepts of human body anatomy, specifically the composition, shape, size, morphology and position of tissues and organs, as well as the topographical and functional interaction between them. Students can combine the knowledge provided and apply it to the live human being (healthy and ill).

Module outline (THEORY) (3 hours, 3 ECTS)

- Human cell structure
- Tissues of the human body
- Epithelial tissue
- Marrow tissue
- Muscle tissue
- Nervous tissue
- Organs and systems of the human body. Introduction
- Respiratory system
- Circulatory system
- Gastrointestinal system
- Urinary system
- Genital system

Module outline (LAB) (1 hour, 1 ECTS)

Students practice with models, charts and illustrations, using modern presentation technics to understand the morphology, position and interaction between the organs and systems taught in the theoretical part.

Written exams

PHYSIOLOGY I (code 278-190103) (General Background, mandatory)

Module aims

The aim of the module is for the students to acquire knowledge of the normal function of human body and its systems and to familiarize them with the physiological mechanisms at the cellular and tissue level

Module outline (THEORY) (3hours, 4 ECTS)

Composition and normal function of human body cells and the individual systems of the human body systems are described. More specifically:

- Human cell
- Fluids interaction
- Hematopoietic tissue - Physiology
- Blood circulation - Physiology
- Respiratory system – Physiology
- Urinary system - Acid-base balance

Written exams

Module outline (LAB) (1 hour, 1 ECTS)

Students practice with models, charts and illustrations, using modern presentation media to understand the physiology of the human body systems taught in the theoretical part.

Written exams

BIOLOGY (code 278-190104) (General Background, Mandatory) (3 hours, 3 ECTS)

Module aims

The aim of the module is to enable students to understand the principles of biology and the basic biological mechanisms as well as the fundamental principles of molecular biology.

Module outline

Introduction to Life Sciences: The way all organisms share certain properties. Cells: the fundamental units of life. The way organisms interact with their ecosystems. Species organization into groups. Evolution through natural selection.

Life chemistry: Chemical composition of living matter. Carbon and the molecular diversity of life. Structure and function of large biological molecules.

The cell: The fundamental unit of life. Description of the cell. Introduction to metabolism. Cellular communication. The cell cycle.

Energy and Life: Energy flow through an ecosystem.

Cellular respiration: Aerobic respiration, Anaerobic respiration, Fermentation.

Chromosomes and Heredity: Sexual or Genetic Reproduction, Inbreeding or asexual reproduction, Number and structure of chromosomes, Mesophase, Mitosis, Cytokinesis, Karyotype, Reduction, Independent gene transfer, Random insemination, Non-segregation, Basic principles of Mendelian genetics, Punnett's square, Multigene inheritance, Linked genes, Genetic recombination, Phylogenetic inheritance, Cloning, Nuclear transplantation, Stem cells

DNA: The life molecule, DNA replication and repair. From gene to protein, Genetic information flow, Genetic code, Regulation of Gene Expression, Mutations and Metalaxigens, Point mutations, Reading frame shift mutations, Proto-tumor genes, Oncogenes, Growth factors, Tumor suppressor genes, Cancer.

Biotechnology. Genetic Engineering, Gene Cloning, DNA Synthesis, Transgenic Animals and Cultures, Genetically Engineered Foods, PCR Technique, Short Sequential Repeats STR, STR Analysis, Human Genome Project, Gene Therapy.

Biodiversity - Microscopic organisms. Biogenesis, Territories, Prokaryotes, Ancient, Useful & Harmful Bacteria, Plasmids, Intermingling in eukaryotic cells, Protists, Structure of viruses, Bacteriophage lytic and lysogenic cycle, Collection of viruses, Structure, life cycle and anti-HIV drugs, Prions, Viroids.

Biodiversity - Fungi and plants. Fungi as decomposers, Fungal collection, Fungal reproduction.

Systems of the human body. The body stands in a structural hierarchy, Different types of tissues in the human body, Homeostatic mechanisms, Negative - Positive feedback, Food intake and processing - balanced and unbalanced diet, Respiratory, Circulatory, Immune, Endocrine, Nervous, Urinary, Reproductive system.

Written exams

MICROBIOLOGY (code 278-190105) (General Background, Mandatory) (3 hours, 3 ECTS)

Module aims

The aim of the module is to enable students to understand the principles and basic concepts of Microbiology. They should know the biology of microorganisms, immunology of infections, bacterial and viral pathogens, fungi and parasites of medical importance, as well as the infection diagnosis, treatment and control.

Module outline

Microbiology and Medicine. Microorganisms & infection, Hygiene, treatment and prevention of infections, sources & transmission of infections.

Structure & Morphology of Microorganisms. Prokaryotic & Eukaryotic cells, Anatomy of bacterial cell, Nature & Composition of viruses.

Classification, Identification and Standardisation of Microorganisms. Classification, Methods of Classification, Classification in Clinical Practice, Identification of Microorganisms, Methods of Indirect Identification, Standardization of Bacteria.

Bacterial growth, physiology and death of bacteria.

Antimicrobial Medicines. Antibacterial, Antifungal, Antiviral, Antiparasitic drugs, Sensitivity testing.

Microbial Genetics. Structure of Genetic material & Regulation of bacterial cell, Mutation, Genetic transport, Plasmids, Genetic map, Genetic basis of antibiotic resistance, Applications of Molecular Genetics.

Virus-cell interactions. Cytolytic or Cytotoxic growth cycle, Non Cytolytic productive cycle, Atypical (Non productive) cycle, Latent phase, Transformation.

Immunology principles: Antigens & their identification. General properties of antigens, Antigenic specificity, Immunoglobulins, Antigen Identification, Major histocompatibility complex.

Physical & Acquired Immunity. The Immune System, Natural, Acquired, Chemical & Cellular Immunity, Immunodeficiency, Hypersensitivity, Autoimmunity.

Immunity & Viral Infections. The Response to Viral Infections, Immunopathology, Vaccines.

Parasitic Infections: Pathogenesis & Immunity.

Immunity to bacterial infections.

Infections by Pathogenic Bacteria.

Viruses and Infections.

Pathogenic Fungi - Parasitic infections.

Written exams

BIOSTATISTICS (code 278-190106) (General Background, mandatory)

Module aims

The aim of the module is to enable students to understand the basic methodological issues related to applied research within the biomedical sciences field. Students are taught descriptive and inferential statistics, statistical measurements and techniques, research methodology and basic sample techniques and organizing field research in biomedical studies. Finally, they are taught how to present the research results through tables and charts.

Module outline (THEORY) (2 hours, 2 ECTS)

- Study design. Sample and population, sampling error, data collection, types of sampling and study design.

- Data collection and analysis. Data file format, data import, analysis, file management (Excel, SPSS), results management.

- Descriptive Statistical Analysis - Descriptive measures: Positional or Central tendency measures (Mean, Median, Mode. Percentiles, Quartiles), Measures of variance (Range, Variance, Standard deviation-Std., Standard error-S.E. OF-mean, Coefficient of variation, Interquartile Range-IQR, Skewness, Kurtosis), Measures of dispersion (Range, Variance, Standard deviation, Standard error-S.E. ofmean, Coefficient of variation, Interquartile range-IQR, Skewness, Kurtosis).

- Creating and editing of graphs. (Histogram, BarChart, Boxplot, Piechart, Scatterplot).

- Test of Normality - Graphical methods (Normal curve on Histogram, P-PPlots, Q-QPlots, Boxplot), Statistical tests (Kolmogorov-Smirnov, Shapiro-Wilk).

- Case control. Null hypotheses, degrees of freedom.

- Statistical analysis using Crosstabs. Chi-square test as a test of independence - Contingency coefficient (Phi & Cramer's V).

- Use of the chi-square test for testing homogeneity (One

sample Chi-Square test).

- Correlation analysis: parametric correlation of quantitative variables (Pearson's r), Non-parametric correlation of quantitative & qualitative variables (Spearman's rho, Kendall'stau-b).

- Statistical tests for comparison of means (t-test) - Comparison of a mean value against a predetermined numerical value (One sample t-test) - Comparison of means of two independent samples (Independent samples t-test) - Examination of differences between two means of correlated values - Paired samples (Paired Samples t-test).

- One-way analysis of variance (ANOVA).

- Two-factor analysis of variance (Two way ANOVA)

- Non-parametric Statistical tests for data comparison - Comparison for one sample (Wilcoxonsigned-rank) - Tests of two independent samples (Mann-WhitneyU, WilcoxonW) - Tests of two correlated samples (Sign, WilcoxonSigned-rank, McNemar) - Differences between several independent groups (Kruskal-Wallis H, Jonckheere-Terpstra).

- Analysis of Covariance (ANCOVA)

- Cronbach's alpha reliability test.

- Exploratory Analysis - Principal Component Analysis (PCA).

- Linear Regression Analysis. Hierarchical Regression Analysis.

- Multivariate Analysis of Variance (MANOVA).

Written exams

Module outline (LAB) (1 hour, 1 ECTS)

Using a statistical program (SPSS, PSPP), the tests taught in the theory of the course are applied to health sciences data.

Computer-based final exams using commercial statistical data analysis packages (SPSS, PSPP).

HEALTH PSYCHOLOGY (code 278-190107) (General Background, mandatory) (2 hours, 2 ECTS)

Module aims

The aim of the module is to raise students' awareness of health as a multifactorial phenomenon, as well as of illness through its psychosocial dimensions. Teaching of various chronic diseases will be carried out through psychological theories that explain behavioral patterns and link mental states to the functions of body physiology, with particular emphasis on the influence of stress on the development of psychosomatic diseases.

Module outline

- Basic principles and knowledge of Psychology
- Introduction to health psychology: Holistic approach of health-Biopsychosocial model of health
- Personality and psychological theories (psychodynamic, behavioral, cognitive, humanistic, and systemic approach). Critical review of theoretical approaches and therapeutic interventions for children/adolescents and adults.
- Psychosomatic illness and stress. Psychological reactions of the patient.
- Management of pain as a biopsychosocial approach
- Communication between patients and health professionals in the hospital: Adherence to medical-nursing guidelines.
- Chronic diseases and psychological interventions (diabetes mellitus, rheumatoid arthritis, cardiovascular problems, etc.)
- Patients with cancer: Quality of life during at all stages of the disease
- Loss - Grief and Mourning
- Health professionals grief: empowerment and self-care

Written exams

2nd SEMESTER

ANATOMY II (code 278-190201) (General Background, Mandatory)

Module aims

The aim of the module is to teach students the basic principles of human anatomy, namely the composition, shape, size, morphology and position of tissues and organs, as well as their topographical and functional relationship. This is intended to reinforce and improve the knowledge provided so that the student can extend and integrate the knowledge of anatomy with the living healthy and ill human being. Anatomy is the cornerstone upon which all education in medical science is based.

Module outline (THEORY) (2 hours, 2 ECTS)

- Nervous system
- Sensory organs
- Endocrine glands
- Endothylial system
- Anatomic terms in relation to their functional meaning

Written exams

Module outline (LAB) (1 hour, 1 ECTS)

Students practice on models, tables and images, using modern presentation technics to understand the morphology, position and interaction between the organs and systems taught in the theoretical part.

Written exams

PHYSIOLOGY II (code 278-190202) (General Background, Mandatory) (2 hours, 3 ECTS)

Module aims

The aim of the module is to teach students the normal function at the cellular level of specialized cells (muscular, neural, and heart cells), as well as the coordinated function of human organs and systems.

Module outline

- Physiology of neural and muscular cell
- Physiology of heart muscle
- The nervous system (central and peripheral)
- Digestive system – Nutrition- metabolism
- Endocrine glands (thyroid, parathyroid, pancreas, adrenals, reproduction)

Written exams

FUNDAMENTALS OF NURSING SCIENCE (code 278-190203) (Specialised, mandatory)

Module aims

The aim of the module is to familiarize students with the basic principles of nursing care for the treatment of patients with pathological and surgical health problems.

Module outline (THEORY) (4 hours, 5 ECTS)

- General information on hospitals. Hospital: purpose and function of a modern hospital, Types of hospitals, inpatient unit, wards, outpatient clinics. Patients' physical environment
- Patient admission to the hospital.
- Inpatient unit, organization, ward, equipment.
- Infection control. Principles of asepsis - antisepsis and sterilization.
- Hospital acquired infections and criteria for their recording. Mission of hospital infection committee. Centre for Disease Control and Prevention (CDC). Preventive, therapeutic, supportive measures – pressure sores. Key positions of bedridden patients - Prevention of bedsores.
- Treatment of bedsores.
- Nursing Process in surgical patients: pre and post operative care
- Postoperative complications of circulatory, digestive, respiratory and urinary system
- Surgical trauma: General principles of wound healing - prevention of infections.

Written exams

Module outline (LAB) (3 hours, 4 ECTS)

- Structure of a hospital ward (equipment). Making a simple bed, student training
- Bed making with a patient in a lateral position, student training
- Surgical bed making, pre- and post- operative nursing care, student training
- Surgical instruments, preparation of sterile instrument pack, student training
- Sterile gloves and handling of sterile items, student training
- Pressure sores: prevention, care, student training
- Surgical wound care, student training
- Administration of medications through rectal root, student training
- Personal hygiene, bed bath, care of the oral cavity, student training
- Methods of administering medicines, abbreviation of instructions, filling in medicine cards, student training

Oral exams/practice

COMMUNITY NURSING I/ HEALTH PROMOTION (code 278-190204) (Specialised, Mandatory)

Module aims

The aim of this module is to highlight the scope of community nursing as well as the role and interventions of the community nurse. In particular, students should understand the concept of prevention and health promotion and acquire the knowledge necessary to inform and educate families or groups in the community.

Module outline (THEORY) (4 hours, 5 ECTS)

• Introduction, definitions (health, community)-scope and characteristics of public and community health nursing

• Health trends in the western world and social changes affecting community health

• Nursing theories underlying community nursing

• Health promotion and risk reduction - Use of epidemiology in disease control and prevention

• Concepts in family health risk-Significant family health risks and nursing interventions

• Assessment of social groups needs in the community (nursing care of children and adolescents, elderly, other vulnerable populations)

• Environmental health

• Violence in the community (child and elder abuse)

• Access to secondary/tertiary care (structures, decentralization)

• Nursing interventions in the community, co-operation with other health care professionals-Community health sectors

Written exams and essay

Module outline (LAB) (4 hours, 4 ECTS)

Visits/clinical placement to Primary Health Care Services

INTERNAL MEDICINE I (code 278-190205) (Special background, mandatory) (3 hours, 3 ECTS)

Module aims

The aim of this module is to provide nursing students with knowledge about diseases of various systems of the human body. Students will become familiar with the basic pathogenic mechanisms of diseases causation and modes of transmission, current methods of diagnosis, direct and indirect complications of diseases, their therapeutic approach and the required preventive and protective measures.

Module outline

- Introductory concepts and definitions

- Clasical methods of clinical approach, such as inspection, percussion, auscultation, palpation. Diagnosis and differential diagnosis. Modern laboratory methods, such as ultrasound, CT and MRI, gamma scan and PET scan.
- Haematopoietic diseases: anaemias, leukaemias, lymphomas.
- Diseases of the digestive system: peptic ulcer, gastro-oesophageal reflux disease, pancreatitis, biliary diseases, hepatitis, liver cirrhosis.
- Respiratory diseases: bronchial asthma, chronic respiratory lung disease community pneumonia.
- Infectious diseases: mode of transmission, prophylaxis and diagnostic approach and treatment of the main infectious diseases prevalent in the Greek population
- Most common types of neoplasms

Written exams

PHARMACOLOGY (code 278-190206) (General Background, Mandatory) (3 hours, 3 ECTS)

Module aims

The aim of the module is to understand the basic principles of safe and effective drug administration for the most common diseases in a clinical setting. Students will become familiar with the actions, effects, side effects and interactions of drugs with other drugs. The student will have the ability to recognize side effects depending on the clinical condition of the patients.

Module outline

- Introductory concepts and definitions. Use of medicines. The role of nurses in drug administration. Nurses and pharmaceutical services.
- Drug effect mechanisms on human body. Factors affecting the degree of safety and efficacy of drugs. Drug interactions.
- Pharmacokinetics. Drug administration routes. Side-effects. Development of new medicines.
- Drugs affecting the Central Nervous System. General anaesthesia, local anaesthetics and resuscitation. Epilepsy and Parkinson's disease. Antipsychotics, anxiolytics and hypnotics. Antidepressants and dementia. Drug dependence.
- Endocrine system. Hypothalamic and pituitary axis. Hormones and metabolism: thyroid, parathyroid glands, calcitonin, insulin, diabetes mellitus, adrenal glands, hormones and reproduction.
- Drugs affecting the Circulatory System. Drugs treating angina. Drugs for heart failure. Antihypertensive drugs. Drugs used in Cardiovascular Arrhythmias. Drugs acting on Blood Coagulation. Drugs for Dyslipidemia. Practice, dose calculation.
- Drugs affecting the digestive system. Emetics and antiemetics, (Practice, dose calculation.
- Analgesia with narcotic substances
- Anti-inflammatory drugs and local hormones.

- Antibiotics (mode of action - β-lactam antibiotics - Aminoglycosides - Quinolones - Tetracyclines - Antibiotics against anaerobic microorganisms). Practice, dose calculation
- Antifungals, antivirals
- Drugs affecting the respiratory system. Practice, dose calculation.
- Drugs used in the treatment of neoplasms. Chemotherapeutic drugs

Written exams

3rd SEMESTER

INTERNAL NURSING I (code 278-190301) (Specialised, Mandatory)

Module aims (THEORY) (4 hours, 4 ECTS)

The aim of the module is to provide students with the appropriate knowledge about medical problems of the haematopoietic tissue, digestive and respiratory systems and the problems of patients with diabetes mellitus. Upon successful completion of the theory module, the student will be able to conduct a comprehensive nursing assessment of the patient utilizing sources of information from the patient and the patient's environment. The student will also be able to identify the problems of the pathological patient, formulate nursing diagnoses, deliver nursing care goals, and evaluate nursing care outcomes.

Module outline (THEORY)

- Obtaining a nursing history of a pathological patient
- Nursing process: assessment of the patient's problems, formulation of nursing diagnoses, nursing interventions, evaluation of interventions.
- Clinical manifestations, interventions, nursing diagnoses & interventions, assessment of nursing care outcomes to the following:
- Upper digestive tract disorders
- Lower digestive tract disorders
- Gallbladder and pancreas diseases
- Liver diseases
- Disorders of the upper respiratory system
- Lower respiratory tract disorders
- Diabetes mellitus
- Endocrine gland disorders

Written exams

Module aims (LAB) (4 hours, 4 ECTS)

Upon successful completion of the laboratory module, the student will be capable of providing nursing care to patients hospitalized in pathological and surgical units.

Module outline (LAB)

- Medications/Drugs (definition): general principles of drug administration, administration routes, dosages
- Subcutaneous, endodermal injections. Student practice

- Drug preparation. Aspirating techniques from ampoule, intramuscular drug administration. Student practice
- Dose calculation of drugs, drug dissolution, aspiration from vial. Student practice
- Blood collection. Student practice
- Administration of intravenous solutions (types, specifics, flow calculation). Student practice
- Venipuncture, connection to intravenous solution. Student practice
- Oxygen therapy (types of oxygen administration devices)
- Review course
- Clinical placement in medical wards

Oral exams/practice

SURGICAL NURSING I (code 278-190302) (Specialised, Mandatory)

Module aims (THEORY) (4 hours, 4 ECTS)

The aim of the module is to enable students to apply the nursing process to surgical patients, to assess the needs of surgical patients based on the knowledge they have acquired and to plan and provide quality nursing care. Particular emphasis is given to the process of nursing diagnosis, nursing interventions and their evaluation based on current literature in the context of evidence-based nursing practice. Upon successful completion of the theory module, the student will be able to conduct a comprehensive nursing assessment of the patient utilizing sources of information from the patient and the patient's environment. The student will also be able to identify the problems of the surgical patient, formulate nursing diagnoses, specify nursing care goals, and evaluate nursing care outcomes.

Module outline (THEORY)

- Introduction to surgical nursing: perioperative stages, classification of surgical operations, post-operative complications
- Introduction to surgical nursing: students practice on applying nursing care in a patient undergoing surgery
- Clinical manifestations, interventions, nursing diagnoses & interventions, assessment of nursing care outcomes to the following:
  - Upper digestive tract disorders
  - Lower digestive tract disorders
  - Gall bladder and pancreas diseases
  - Liver diseases
  - Disorders of the upper respiratory system
  - Lower respiratory tract disorders
  - Endocrine gland disorders

- Water and electrolyte disorders
- Burn disease

Written exams

Module aims (LAB) (4 hours, 4 ECTS)

Upon successful completion of the laboratory module, the student will be capable of providing nursing care to patients hospitalized in surgical wards and units.

Module outline (LAB)

- Medications/drugs (definition): general principles of drug administration, administration routes, dosages
- Subcutaneous, endodermal injections. Student practice
- Drug preparation. Aspirating techniques from ampoule, intramuscular drug administration. Student practice
- Dose calculation of drugs, drug dissolution, aspiration from vial. Student practice (two courses)
- Blood collection. Student practice
- Administration of intravenous solutions (types, specifics, flow calculation). Student practice
- Venipuncture, connection to intravenous solution. Student practice (two courses)
- Oxygen therapy (types of oxygen administration devices)
- Review course
- Clinical placement in surgical wards

Oral exams-practice

INTERNAL MEDICINE II (code 278-190304) (Special background, mandatory) (3 hours, 3 ECTS)

Module aims

The aim of this module is to provide nursing students with knowledge about diseases of various systems of the human body. Students will become familiar with the basic pathogenic mechanisms of diseases causation and modes of transmission, current methods of diagnosis, direct and indirect complications of diseases, their therapeutic approach and the required preventive and protective measures.

Module outline

- Introductory concepts and definitions
- Clasical methods of clinical approach, such as inspection, percussion, auscultation, palpation. Diagnosis and differential diagnosis. Modern laboratory methods, such as ultrasound, CT and MRI, gamma scan and PET scan.

- Haematopoietic diseases: anaemias, leukaemias, lymphomas.
- Diseases of the digestive system: peptic ulcer, gastro-oesophageal reflux disease, pancreatitis, biliary diseases, hepatitis, liver cirrhosis.
- Respiratory diseases: bronchial asthma, chronic respiratory lung disease community pneumonia.
- Infectious diseases: mode of transmission, prophylaxis and diagnostic approach and treatment of the main infectious diseases prevalent in the Greek population
- Most common types of neoplasms

Written exams

SURGERY I (code 278-190305) (Special Background, Mandatory) (3 hours, 3 ECTS)

Module aims

The aim of the module is to provide students with the necessary knowledge for the recognition of the semiotics of organ-specific surgical conditions, their surgical treatment and the provision of appropriate nursing care. Upon successful completion of the theory the student will be able to identify surgical conditions and how healthcare professionals approach patients for diagnosis and provision of nursing care.

Module outline

- Pre-operative preparation and assessment of patient - complicating factors and comorbidities
- Anaesthesiology elements
- Post-operative care, general post-operative complications, prevention & treatment
- Surgical diseases: types of surgery, breast diseases - stomach diseases - duodenal diseases
- Vein thrombosis, pulmonary embolism, thromboprophylaxis
- Shock - types – treatment
- Colon and rectal diseases
- Pancreas and gall bladder diseases
- Acute abdomen - acute appendicitis - peritonitis – ileum
- Cardiac surgery
- Burns - chest injuries

Written exams

HEALTH SOCIOLOGY (code 278-190306) (General Background, Mandatory) (2 hours, 2 ECTS)

Module aims

The aim of the module is to help students understand the social characteristics of illness, the experience of illness, the dynamics of relationships within the healthcare system, and the

limitations and prospects of professional care. Developing critical thinking skills through the study of this discipline can enhance nurses' self-awareness to provide contemporary and non-discriminatory person-centered care. Thus, the nursing profession, which presupposes privacy, confidentiality and close interpersonal relationship with patients, is also approached from a sociological perspective, which supports and accepts the influence of social dynamics in its practice.

Module outline

- Introduction to Health Sociology. Distinctions of Health Sociology. Sociology of illness - health services - the therapeutic relationship - quality of life - bioethics.
- Sociology of illness. Health and illness. Basic conceptual approaches. Perceptions, attitudes and behaviors towards health.
- Sociology of illness (continued). Inequalities and differences in health. Income inequalities and life expectancy. Inequalities in the health status of the population. Inequalities in the supply and use of health services. Injustice and stressful life events. Stress and illness. Health care seeking.
- Sociology of health services. Health services in society. Hospital - "business": dilemmas. Leadership and management.
- Sociology of health services (continued). Communication and quality of health care. Medical records and health care records.
- Sociology of the therapeutic relationship. Social roles in the therapeutic relationship between doctor and patient. Similarly, in the relationship between nurse and patient.
- Sociology of quality of life. Health and quality of life. Social indicators of quality of life. Inconsistency of assessments between subjective and objective dimensions of quality of life. Limitations of quality of life assessments.
- Quality of life in patients with cancer, HIV, heart problems, Alzheimer’s disease, renal problems
- Sociology of bioethics and deontology. Basic principles of bioethics. Informed consent. Ability to perceive information. Decision making. Concealment of truth. Trust and medical confidentiality.
- Sociology of bioethics (continued). Euthanasia and assisted suicide, experimental medical research, palliative care, therapeutic futility
- Sociology of bioethics (continued). Organ transplantations. Assisted reproduction. Cloning
- Sociology of bioethics (continued).Conflict of interest. Dilemmas of resources allocation and therapeutic effectiveness

Written exams

NURSING THEORIES (code 278-190307) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

The aim of this module is to help students understand the concept of theory, the importance of nursing theories in clinical practice and the extent to which information obtained from theories can be used in nursing research and administration. Through tutorial exercises, students will have the opportunity to apply the knowledge gained from the theories with clinical practice examples.

Upon successful completion of the theory, the student will be able to state the key points of nursing theories, name the basic principles of each nursing theory, and identify the main characteristics of the theories.

Module outline

- Introductory concepts of nursing theories. Their usefulness in nursing.
- The importance of theory in nursing - The development of theory in nursing. Stages of development of theory in nursing
- F. Nightgale's theory -Theories of nursing based on human needs
- D. Orem's theory of the self-care deficit
- F. Abdelah's theory -Patient-centered approaches to nursing.
- V. Henderson's theory. The principles and practice of nursing
- B. Newman's theory. Newman's systems model.
- M. Rogers' theory. The science of Unitary Human Beings (SUHB)
- C. Roy's adaptation model
- I. King's systemic framework and theory of goal attainment
- J. Watson: Watson's philosophy and theory of transpersonal caring
- M. Leininger: The cultural care theory of diversity and universality

Written exams

COMMUNICATION IN HEALTHCARE (code 278-190308) (General Background, Mandatory) (2 hours, 2 ECTS)

Module aims

The aim of the module is to raise students' awareness of the nature of the therapeutic relationship and the importance of effective communication between patients and health professionals, as well as to acquire the necessary knowledge and skills that will contribute to the effective approach and support of patients and their families in the various phases of illness.

Module outline

- Theoretical models of communication: Definitions, concepts and basic principles
- The usefulness of counseling to health professionals

- Theories of nursing and counseling psychology. Nursing roles: Counseling in health prevention/promotion and disease control.
- Active listening skills for effective nurse-patient communication.
- Patient approach: the first encounter, key elements of professional appearance and behavior.
- Communication skills to understand the patient's subjective experience
- Specialized counseling and communication issues:
  - intercultural specificities of patients
  - communication with different age groups
  - managing 'difficult' emotions and reactions of patients and relatives
  - outreach to families seeking organ donation.
- The theory of Transactional Analysis and its usefulness in communicating with colleagues, patients, etc.
- - Communicating unpleasant news to the patient and family
- - The "care" of the health care professional. Burnout, supervision and support.

Written exams

BLOOD DONATION IN NURSING (278-190309) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

The aim of the module is for students to understand the work of the hospital's blood donation services and to become familiar with the laboratory tests and newer techniques used in the blood donation departments. Students will understand the concept of blood donation (blood donation, volunteering), the department and its standard laboratory procedures (blood collection). They will also gain knowledge about blood transfusion, its processing and the preparation of derivatives (concentrated red blood cells, leucocytes, plasma, platelets), preservation and conservation of blood and its derivatives. Upon successful completion of the theory, students will be familiar with blood group systems, as well as their antigens and antibodies, and will understand the direct and indirect complications of blood transfusions and hemolytic disease of the newborn. In addition, they will enhance their knowledge of transfusion-transmitted diseases (mode of transmission, control, prevention) and emerging (due to climatic and other changes) diseases that in the near future may threaten the safety of transfused blood and its derivatives (West Nile virus, malaria, etc.). Finally, they will be introduced to the concept of blood vigilance.

Module outline

- General principles of blood donation, organisation of blood donation (premises - equipment - staffing)
- Blood - blood components (blood elements, plasma)
- Immunohaematology - blood groups (erythrocyte membrane - antigens)
- ABO -Rhesus system - other antigenic systems (e.g. Kell)

- Direct and indirect Coombs test, crossmatch test (blood application form, samples, blood groups and bag selection), HLA histocompatibility
- Selecting donors, attracting and retaining volunteer donors. (donor selection, pre-donation laboratory testing, donor history, donor exclusion (permanent, temporary), donor categories (volunteer, relative, autologous), ways to attract and retain volunteer donors)
- Collection of blood for donation. Technique of blood collection. Venipuncture. Reactions and immediate actions. Actions before, during and after blood collection, antisepsis, marking of bags, accompanying tubes, handling of bags before, during and after blood collection, mobile blood collection teams, complications of blood collection (local, generalised), prevention and management of immediate side effects. Blood removal (therapeutic or not).
- Production and preservation of blood factors (whole blood, concentrated red blood cells, plasma, platelets, preservation)
- Transfusions. Indications, adverse effects of transfusion, transfusion-transmitted diseases, autologous transfusion.
- Blood diseases

Written exams

4th SEMESTER

INTERNAL NURSING II (code 278-190401) (Specialised, mandatory)

Module aims (THEORY) (4 hours, 4 ECTS)

The aim of the module is to provide students with the appropriate theoretical knowledge about the pathological problems of the cardiovascular, urinary and musculoskeletal systems, as well as the sensory organs. After successful completion of the theory module, students will be able to assess the health status of patients with pathological problems of the above systems, to learn the function of each system separately and in combination with the other systems and to evaluate the problems that arise.

Module aims (LAB) (4 hours, 4 ECTS)

Upon successful completion of the laboratory module, students will have acquired the necessary knowledge and skills to be able to provide nursing care to patients hospitalized in pathology and surgical departments.

Module outline (THEORY)

- Introduction to pathological nursing II (anatomy, physiology)
- Cardiovascular system: Coronary disease, heart arrhythmias, cardiac arrest, microbial endocarditis, pericarditis, cognitive heart failure, acute pulmonary oedema, cardiogenic shock, diseases of heart valves. Vascular events, aorta diseases, peripheral vascular diseases, arteriosclerosis and atherosclerosis, obstructive thromboangiitis, thrombophlebitis and venous thrombosis, varicose veins and hypertension
- Urinary system: renal failure (acute & chronic), acute pyelonephritis, glumerolonephritis, nephotic syndrome, andronephrosis, urolithiasis, renal tumors, prostate hypertrophy, Ca prostate
- Musculoskeletal system: Plaster bandage conservative treatment and tractions. Fracture, intervertebral disc herniation, neoplasms, acute haematogenous osteomyelitis, osteoarthritis of the hip, gout, osteoporosis, Paget's disease, rheumatoid arthritis
- Sensory organs: Visual, hearing and speech disorders. Eye diseases, such as blepharitis, crythe, chalazion, conjunctivitis, refractive errors and blindness. Ear diseases, such as otitis (acute & chronic) external and middle ear, Meniere's disease, labyrinthitis, deafness & deafblindness. Nasal diseases, such as rhinitis, rhinitis, dodecanthias and sinusitis. Throat diseases, such as pharyngitis, tonsillitis, adenoid gland hypertrophy. Laryngeal diseases, such as laryngeal edema.

Written exams

Module outline (LAB)

- Placement of a nasogastric tube
- Treating bedsores

- Wound care
- Bladder catheterisation in males and females (with one and two nurses)
- Collection of aseptic urine, bladder irrigation (open and closed)
- Renal Replacement Therapies: dialysis and its variants, peritoneal dialysis
- Electrocardiogram (ECG) (performing & identifying basic abnormalities)
- Paracentesis for therapeutic and/or diagnostic purposes (thoracic, lumbar, abdominal, osteomyelitis): materials, preparation, patient care after paracentesis
- Stoma care (colostomy, ureterostomy, gastrostomy, ileostomy)
- Review course
- Clinical placement

Oral exams-practice

SURGICAL NURSING II (code 278-190402) (Specialised, Mandatory)

Module aims (THEORY) (4 hours, 4 ECTS)

Upon successful completion of the theory module, the student will acquire the necessary knowledge about the basic principles of surgical nursing. They will also be able to apply nursing interventions (pre-operative and post-operative interventions) using the nursing process and creating corresponding nursing plans. In addition, students will be able to evaluate the results of nursing interventions and how to assess them by resolving problems arising from the postoperative patient course.

Module outline (THEORY)

- Introduction to surgical nursing II (anatomy and physiology).
- Pre and post-operative care (patient assessment, aim of nursing care, planning of nursing interventions, recognition, management of postoperative complications and evaluation) in the following systems:
- Cardiovascular system: cardiac surgery (extracorporeal circulation), heart transplantation, varicose veins, thrombophlebitis and vein thrombosis.
- Urinary system: Acute and chronic kidney disease (peritoneal dialysis, hemodialysis), kidney transplantation, prostate hypertrophy, Ca prostate and urolithiasis.
- Musculoskeletal system: Fractures, hip/knee arthroplasty, amputations.
- Sensory organs (vision, hearing and speech): Eye diseases - cataracts, corneal transplantation, strabismus, glaucoma and eye tumors. Diseases of the ear and tympanoplasty, nose, throat, tonsils and adenoids diseases. Laryngeal diseases, Ca larynx and laryngectomy (total or partial).

Written exams

Module aims (LAB) (4 hours, 4 ECTS)

Upon successful completion of the laboratory module, students will have acquired the necessary knowledge and skills to be able to provide nursing care to patients hospitalized in pathology and surgical departments.

Module outline (LAB)

- Placement of a nasogastric tube
- Treating bedsores
- Wound care
- Bladder catheterisation in males & females (with one and two nurses)
- Collection of aseptic urine, bladder irrigation (open and closed)
- Renal Function Replacement Therapies: dialysis and its variants, peritoneal dialysis
- Electrocardiogram (ECG) (performing & identifying basic abnormalities)
- Paracentesis for therapeutic and/or diagnostic purposes (thoracic, lumbar, abdominal, osteomyelitis): materials, preparation, patient care after paracentesis
- Stoma care (colostomy, ureterostomy, gastrostomy, ileostomy)
- Review course
- Clinical placement

Oral exams-practice

EPIDEMIOLOGY/PUBLIC HEALTH (code 278-190403) (General Background, Mandatory) (2 hours, 2 ECTS)

Module aims

The aim of the module is to familiarize students with the concept of epidemiology and its practical application in healthcare facilities. In addition, they will gain knowledge on how to design an epidemiological survey and the use of tools for measuring and evaluating epidemiological data.

Upon successful completion of the theoretical module, the student will be able to grasp the importance of characteristics, persons, place and time on the incidence of disease and the differences between various types of epidemiological studies (descriptive retrospective, prospective interventions). Students will also develop skills in designing, organizing and conducting epidemiological studies and will be able to make decisions about the most appropriate choice of epidemiological research and understand the contribution of epidemiology to clinical and public health.

Module outline

- Introductory concepts of Epidemiology, Definitions. Historical review. Aims and use of epidemiology. Etiology and classification in Epidemiology.
- Epidemiological index. Epidemic, group disease, spectrum of disease. Epidemic outbreaks.

- Outline of epidemiological research. Testing of etiological hypotheses. Applications related to disease etiology. Interpretation of results of etiological investigations.
- Indicators of morbidity (incidence-prevalence). Applications of incidence data. Mortality indicators. Comparison between indicators.
- Descriptive Epidemiology. Characteristics of person, place, time. Synchronous or prevalence surveys, methods and validity of synchronous surveys. Systematic error in epidemiological research and techniques for its reduction.
- Patient-witness studies (retrospective studies). Characteristics. Advantages and Disadvantages. Stratified analysis. Interpretation of findings. Ecological studies.
- Cohort studies. Characteristics. Advantages and disadvantages. Fractal correlations. Interpretation of findings.
- Intervention studies (Experimental studies). Methods in clinical trials. Ethical considerations.
- Pre-symptomatic screening. Tests, mass screening programs and their evaluation. Epidemiological consideration of preventive interventions. Epidemiological methods and Health Services. The application of epidemiology in the evaluation of health services.
- Epidemiology of Infectious Diseases. Epidemiologically important infectious diseases in the community. Epidemiology of Inpatient Infections.
- Environmental Epidemiology. Health effects associated with environmental factors.
- Epidemiology and Clinical Nursing. Evaluation of Therapeutic Measures.
- Evidence-based nursing based on epidemiology.

Written exams

FIRST AID (code 278-1900404) (Specialised, Mandatory)

Module aims (THEORY) (2 hours, 2 ECTS)

The aim of the module is to train nursing students to be able to deal with emergency and life-threatening situations.

Upon successful completion of the theoretical module, the student will be able to assess the victim's condition and, depending on the safety of the environment, provide the victim with the necessary first aid.

Module outline (THEORY)

- What is first aid - Chain of life
- Rescuer and scene safety
- Airway obstruction - Ventilation
- Basic adult cardiopulmonary resuscitation (ERC Guidelines) - Use of an automatic defibrillator (ERC Guidelines)
- Basic CPR for infants and children (ERC Guidelines)

- Advanced adult cardiopulmonary resuscitation (ERC Guidelines)
- Arrhythmias after resuscitation
- Triage, Patient transfer
- Rescue Extrication
- Immobilization of the injured (adult - child)
- Circulatory collapse, allergy, anaphylaxis
- Animal insect droppings
- Burns - Electric shock
- Drowning
- Heatstroke - Hypothermia, Frostbites

Written exams

Module outline (LAB) (1 hour, 1 ECTS)

The training is carried out using models. Students are familiarized with basic and specialized CPR protocols, the use of the automatic defibrillator and the management of the multi-trauma patient.

Written exams - practice

PRINCIPLES OF INFORMATION TECHNOLOGY AND APPLICATIONS IN HEALTH (code 278-190405) (General Background, mandatory)

Module aims (THEORY) (2 hours, 2 ECTS)

The aim of the module is to enable students to manage medical and nursing informatics applications through up to date computer systems.

Upon successful completion of the theory course the student will be capable of using modern computer systems for nursing applications.

Module outline (THEORY)

- Introductory Computer Science concepts. Characteristics of central computer processors of main and secondary memory of peripheral devices. Windows operating system, Operation (desktop, control panel, folder management, searching, creating, moving, copying, deleting, decompressing files or folders). Printing, Backup, Maintenance and Performance
- Introduction to Bioinformatics. The history of bioinformatics and the computational biology. The interdisciplinary nature of bioinformatics. Current situation in the world and Greece.
- Use of computers in biomedicine. Terminology
- Information Systems in Health

- Bioinformatics Applications. Electronic Health Record, Electronic Medical Patient Record, Patient Record Archive, Hospital Information Systems.
- Medical Imaging Systems, Special Applications, Internet in Health Care
- Telemedicine, Tele-health and Tele-education in Health, Telemedicine Applications, Mobile Health and Applications, Virtual Reality & Health.
- Biological Databases. Primary and Secondary databases, Integrated systems for retrieving information from databases.
- The future of informatics applications in Biomedicine.
- Clinical Decision Support Systems (CDSS) in Medicine, Clinical decision making process, Problem solving through CDSS, Examples of CDSS systems in practice.
- Biomedical Signals. Definitions, Unidimensional biomedical signals, Biomedical Imaging, Higher dimensional signals.

Module outline (LAB) (1 hours, 1 ECTS)

- Use of Windows operating system. Basic operation, Keyboard shortcuts.
- Introduction to Word. Basic Word functions, Text editing - formatting functions, page layout, preview and printing, WORD functions. Graphics, tables, templates. Exercises with different types of documents (scientific paper, thesis etc).
- Introduction - Basic functions of EXCEL. Formatting worksheets, data entry - data processing, creating formulas, introduction to functions. Functions of EXCEL Graphs, printing and page layout, data lists and data analysis (scatter plot with trend line, descriptive statistics, correlation, regression)
- Introduction - Basic functions of POWERPOINT. Adding slides and content, other techniques to enhance a presentation, managing slides, formatting a presentation, adding effects, timing, recording, sharing, viewing a presentation. Creating a 15-slide presentation (conference presentation, thesis examination). Using as an example, a project retrieved from a web search.
- Computer networks. Internet. Web browsing. E-mail.
- Web browsing. Searching medical literature and scientific articles in Google Scholar and PubMed. Impact factor control.

Written exams

SURGERY II (code 278-190406) (Special Background, Mandatory) (2 hours, 2 ECTS)

Module aims

The aim of the module is to provide students with the knowledge to recognise the semiotics of the multi-injured patient, as well as musculoskeletal injuries, surgical conditions of the urinary tract and central nervous system, in order to provide appropriate nursing care.

Upon successful completion of the theoretical module, the student will be able to identify and assess injuries, fractures, urinary tract surgical conditions, neurosurgical conditions and how the healthcare professional approaches patients for diagnosis and nursing care.

Module outline

- Injuries to the musculoskeletal system - skeletal injuries. Complications of bone fractures - treatment.
- Central Nervous System (CNS) injuries - epidural - subdural cerebral hematoma - cerebral edema. Spinal injuries. Glasgow coma scale
- Surgical urinary tract diseases - general local symptoms - urinary physiology - nephrolithiasis - kidney and prostate diseases
- Treatment of multi-injured patients: Priorities and treatment - chest - abdominal - skeletal injuries. Nursing care

Written exams

NURSING OF RESPIRATORY, THORACIC AND VASCULAR DISEASES (code 278-190407)
(Specialised, Elective) (2 hours, 2 ECTS)

Module aims

The aim of the module is for the student to understand the structure and function of the respiratory system and the fundamental principles of recognition, evaluation and treatment of respiratory diseases. The student will also become familiar with the nursing responsibilities involved in carrying out diagnostic tests, invasive or non-invasive therapeutic approaches in the pre-operative and post-operative period in patients undergoing surgery and the necessity of solving problems arising in clinical practice with the help of modern research and scientific studies.

Upon successful completion of the course, the student will be able to recognize the etiological factors associated with respiratory disorders, apply the appropriate techniques for the evaluation of the respiratory system and recognize the main signs and symptoms of respiratory diseases. They will also be able to apply the basic principles of nursing care for each condition, make an informed decision about the most appropriate rehabilitation therapy, implement comprehensive post-operative treatment programs for patients who have undergone thoracic surgery, and provide information on long-term measures to prevent respiratory problems working both individually and as part of a multidisciplinary team.

Module outline

- Elements of anatomy and physiology of the respiratory system
- Normal respiratory function and disorders of respiratory function
- The clinical examination of the respiratory system. Main clinical symptoms and signs of bronchopulmonary diseases.
- Common problems of respiratory patient care (effective airway clearance, ineffective breathing patterns, risk of infection, changes in nutrition and hydration, fatigue)

- Respiratory failure (types of respiratory failure, adult respiratory distress syndrome, etc.)
- Care of patients with pulmonary vascular disorders/pulmonary circulation diseases (pulmonary hypertension, pulmonary cardiomyopathy, pulmonary embolism, pathophysiological reaction to pulmonary embolism - cardiovascular and respiratory system manifestations, etc.)
- Care of patients with disorders of the upper respiratory system (common cold, rhinitis, sinusitis, pharyngitis, tonsillitis, etc.)
- Care of patients with lower respiratory tract disorders (acute bronchitis, bronchiolitis, bronchopneumonia, pulmonary abscess, infectious lung diseases (lobar pneumonia, viral and bacterial pneumonia, nosocomial disease, pneumonia in immunosuppressed patients, aspiration pneumonia), etc.)
- Care of patients with pleural diseases (pleurisy, pleural effusion, empyema, chylothorax, pneumothorax, etc.)
- Care of patients with lung tumors
- Care of patients with chronic obstructive lung diseases (chronic bronchitis, pulmonary emphysema, bronchiectasis, obstructive bronchiolitis, cystic fibrosis, etc.)
- Care of patients with granulomatous lung diseases (pulmonary tuberculosis, sarcoidosis, etc.)
- Care of patients with occupational lung diseases (pneumoconiosis, inhalation of chemicals, etc.)
- Care of patients with congenital anomalies and diseases of the lungs and thoracic skeleton. Chest injuries.

Written exams (and optional written projects)

HOSPITAL INFECTIONS (code 278-190408) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

The module aims at enabling students to acquire the appropriate theoretical knowledge about the pathogenesis of infections, the specific ways of recording and monitoring hospital-acquired infections, as well as their prevention measures.

Upon successful completion of the theory module, students will be able to understand the concept of health and disease in relation to infections associated to pathological and surgical problems in hospital settings, and to apply this knowledge in the planning and delivery of nursing care as well as the evaluation of the results.

Module outline

- Introductory concepts and definitions in nosocomial infections. Their usefulness in nursing.
- Epidemiology of nosocomial infections - Infection control program
- Tools for the control of hospital acquired infections – Recording of them
- Sterilisation-disinfection-antisepsis policy
- Hand hygiene -Description of hand washing technique –Preparations used.
- Urinary tract infections

- Hospital-acquired pneumonia
- Infections from endovascular devices -Frequency-definition of catheter-related infections - Description of pathogenesis
- Infections from endovascular devices used for short and long duration, infections from fully implantable endovascular devices
- Infections in patients with cancer
- Hospital-acquired infections in ICUs.

Written exams

FOREIGN LANGUAGE (TERMINOLOGY) (code 278-190409) (General Background, Elective) (2 hours, 2 ECTS)

Module aims

The aim of the module is to enable students to develop their scientific language skills in English in order to meet their communicative and academic needs in a nursing work environment. Terminology is not isolated from its linguistic or extra-linguistic environment and is always presented as embedded in it. The examination of grammatical and syntactic phenomena is not carried out in isolation but always in relation to texts of specialized terminology.

Upon successful completion of the theoretical module, students will be able to understand the foreign-language literature in their field of expertise, identify a specialized scientific and technological text and acquire a general idea of the content, despite the existence of unfamiliar vocabulary and terminology.

They will also have the skills to translate into a foreign language written and/or spoken information obtained through written and/or spoken language (articles, interviews, debates, conferences, seminars, etc.), to deduce the main idea of the subject of a scientific or literary text, while summarizing its content. In addition, they will be able to express written and/or oral opinions on a topic in their area of expertise based on the information provided.

Module outline

The module involves the teaching of advanced nursing and medical terminology along with discussion of health, nursing & medical related topics and authentic dialogues.

Written exams

TRANSCULTURAL NURSING (code 278-190410) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

The aim of the module is to help students understand the concept of "Transcultural/Intercultural Nursing" as a science and to develop methods of reaching people through intercultural care. Students will also develop skills in order to gain knowledge specific to local ethnic minorities and formulate perceptions towards the application of Basic Nursing Care to different cultural groups.

Upon successful completion of the theoretical module, students will be able to apply skills that can be used in the process of gathering information for the education of the target population, as well as in the management and treatment of acute and chronic health problems in the transcultural/intercultural environment. They will also be able to plan care using the nursing process method in order to understand the concept and content of transcultural/intercultural nursing and to realize the role of the nurse. In addition, they will be in a position to analyze nursing care provided in the transcultural/ intercultural environment in the context of primary, secondary and tertiary prevention and to assess the hygiene and safety of the physical and social transcultural/intercultural environment. In addition, they will be familiar with the concepts of culture, health, illness and their interaction in different cultures and will be knowledgeable to report on cultural factors related to mental illness, interventions in transcultural/intercultural nursing and factors affecting the provision of care to different population groups. Finally, they will be able to identify the parameters of quality of transcultural/intercultural care in age groups.

Module outline

- History - Objectives, responsibilities - Definitions of intercultural nursing
- The concepts of civilization, culture, health and illness
- Theory and models of intercultural nursing and health
- Culture, experience and cultural sensitivity of health professionals
- Factors influencing the delivery of care in different cultures nationally and globally
- The transcultural/intercultural dimension of quality of care
- The health of migrants, the provision of health and welfare services
- Transcultural/Intercultural knowledge, sensitivity and competence in child care
- Transcultural/Intercultural mental health nursing
- Human rights, guaranteeing and protecting the right to health.
- Ethical dilemmas and future trends in school nursing

Written exams

5th SEMESTER

PAEDIATRIC NURSING (code 278-190501) (Specialised, mandatory)

Module aims (THEORY) (4 hours, 6 ECTS)

Students will acquire the necessary knowledge and skills in order to be able to evaluate paediatric patients' needs, to state and prioritize nursing diagnosis, to plan a nursing care plan, to apply nursing interventions and to evaluate outcomes. Students are going to learn and provide nursing care plans for paediatric patients (newborn to adolescent) with various health problems using the nursing process. In addition, students are going to acquire basic knowledge regarding obstetric nursing, such as pre-conception tests, conception, pregnancy, physiology and pathology of pregnancy, partum and complications. Assessment and management of pregnant women, women in labour and during the postpartum period are included in the syllabus.

In the lab students are going to acquire knowledge and skills necessary to care for children and newborns.

Module outline

- Child physical assessment and development
- Child/adolescent during hospitalization
- Basic principles of paediatric nursing history based on its physical examination
- Maternity Nursing – conception, pregnancy, pre-pregnancy tests, delivery, post-partum period
- Assessment of the newborn - Health problems in newborns
- Problems of the Respiratory Tract in children
- Problems of the Urinary System in children
- Blood diseases in children
- Problems of the Neurological System in children
- Children surgery – pre-operative and post-operative care, assessment, complications, interventions
- Children with chronic disease (asthma, diabetes mellitus, malignancies, chronic kidney disease etc)
- Psychosocial problems in children/adolescents (autism, dyslexia, schizophrenia, boulimia, depression)
- Ethical dilemmas in children nursing – decision making.

Written exams.

LAB outline (6 hours, 4 ECTS)

- Drug administration – general principles
- Drug administration: oral, rectum, inhalers, eye and ear drops

- Drug administration – dosages, intramuscular injection
- Parenteral drug administration – solutions, intravenous cannulation
- Vital signs (arterial blood pressure, pulse, respirations, temperature), fever and its management

- Collecting specimens (urine culture, blood culture, faeces culture, pharyngeal and nasal specimen, trauma drainage specimen, sputum specimen, collection of 24h urine)
- CPR and Heimlich maneuver
- Delivery, assessment and care of the newborn, diagnostic tests, baby wash, caring for the umbilical cord
- Premature babies, incubator, caring for incubated babies, oxygen and light therapy, exchange transfusion
- Breast-feeding (preparation, position), artificial feeding, Levin catheterization

Oral exams/practice.

ONCOLOGY NURSING (code 278-190502) (Specialised, Mandatory) (3 hours, 5 ECTS)

Module aims

Students will acquire the necessary knowledge and skills in order to be able to provide holistic nursing care to patients with cancer. Students will be able to understand the pathogenesis of cancer and the ways of cancer metastasis, treatment modalities and side-effects of the therapies. Furthermore, the course will prepare students to effective manage the needs of cancer patients, to prioritize them and to be able to assess their problems and the outcomes of nursing care provided.

Module outline

- Pathophysiology of cancer
- Cancer epidemiology
- Primary, secondary and tertiary prevention of cancer. Nurses in primary and secondary prevention
- Surgical therapy – nursing care plan of patients with cancer
- Chemotherapy – preparation and administration of chemotherapeutic agents
- Chemotherapy side effects. Nursing care plan of patients on chemotherapy
- Radiotherapy – side effects. Nursing care nursing care plan of patients on radiotherapy
- Targeted therapies – side effects. Nursing care plan of patients on targeted therapies
- Immunotherapy – side effects. Nursing care plan of patients on immunotherapies
- Hormonal therapy – side effects. Nursing care plan of patients on hormonal therapies
- Psychosocial care – stress, depression, family environment, social support

Written exams and essay.

RESEARCH METHODOLOGY IN NURSING (code 278-190503) (Special Background, Mandatory) (2 hours, 2 ECTS)

Module aims (THEORY)

Students will acquire basic knowledge on research in order to be capable to read, explain and evaluate data and implement them in nursing practice. In addition, they could identify nursing problems that could be studied, participate in research studies and plan qualitative and quantitative research. Students could identify and state research questions and hypotheses, plan-organize and implement research studies, critical appraise scientific papers and submit an evidence based research protocol.

Module outline

- Introduction to research methodology in health-care settings
- Ethical issues in nursing research
- Research question
- Descriptive and systematic literature review
- Quantitative research
- Qualitative research
- Research Population – Sample
- Research tools (questionnaires, scales) and interview planning in qualitative research
- Data analysis (descriptive and analytic statistics)

Module outline (LAB) (1 hour, 2 ECTS)

- Deductive presentation and discussion of research findings
- Research findings and nursing practice
- Implementation of Nursing Research

Written exams.

PAEDIATRICS (code 278-190504) (Special Background, Mandatory) (3 hours, 2 ECTS)

Module aims

Students will acquire the necessary knowledge and skills regarding children's and family's health. They could recognize children's health problems and the way a healthcare professional should approach children in order to make diagnosis and provide appropriate nursing care. They will be taught child development from newborn to adolescent, basic principles of clinical examination and diagnosis. They will acquire knowledge regarding therapeutic approach in pathological paediatric situations.

Module outline

- Paediatric medical history
- Physical examination
- Feeding, Nutrition
- Problems of the Respiratory Tract in children
- Problems of the Circulatory System in children
- Problems of the Digestive System in children
- Problems of the Genitourinary System in children
- Metabolic diseases
- Blood diseases in children
- Mallignancies in children
- Problems of the Skin in children
- Surgery in children

Written exams.

NURSING DIAGNOSTICS AND SEMIOLOGY (code 278-190505) (Specialised, Mandatory) (3 hours, 3 ECTS)

Module aims

Students will acquire the necessary knowledge in order to be able to implement nursing history and physical-clinical examination. Students will be able to proceed to clinical examination of all systems.

Module outline

- Nursing history
- Physical examination and various techniques
- Vital signs
- Head and neck examination
- Chest and lung examination
- Cardiovascular system
- Breast and auxillary lymp nodes
- Gastrointenstinal system and abdominal examination
- Urinary system
- Musculoskeletal system
- Neurological system

• Skin, hair and nails

Written exams.

NURSING REHABILITATION OF PEOPLE WITH CHRONIC HEALTH PROBLEMS (code 278-190506) (Special Background, Mandatory) (2 hours, 2 ECTS)

Module aims

Students will acquire the necessary knowledge to provide holistic care to people with chronic health problems keeping in mind the individual pathophysiologic and psychosocial elements of each health problem. Having completed the course the students will be able to implement knowledge and skills in order to provide nursing care and rehabilitation care to people with chronic health problems. In addition they can provide the appropriate nursing care and rehabilitation plan, and document the care provided. Students will be able to address adaption to new situation and care of non-hospitalised people with chronic health problems, to make decisions and choose the appropriate care and rehabilitation plan, to provide individualized and cultural sensitive care. Finally students will be able to work in a multiprofessional environment within the context of rehabilitation.

Module outline

- Introduction – definitions (chronic health problem, rehabilitation, basic principles of rehabilitation, quality of life, nursing process)
- Multiprofessional cooperation, nurses' role
- Community rehabilitation care team, self-care, family-carerer
- Psychosocial problems of people with handicaps and nursing care of fear, anger and frustration. Counseling.
- Case-studies and nursing care plans for people with chronic health and mobility problems
- Nursing care and rehabilitation plan for people with Chronic Pulmonary Disease, Asthma, Cystic fibrosis
- Nursing care and rehabilitation plan for people with metabolic disorders
- Nursing care and rehabilitation plan for people with Chronic Kidney Disease
- Nursing care and rehabilitation plan for people chronic musculoskeletal problems
- Nursing care and rehabilitation plan for people with Spinal Injuries
- Nursing care and rehabilitation plan for people with Stroke
- Nursing care and rehabilitation plan for people with Degenerate Neurological problems

Written exams

GASTROENTEROLOGY (code 278-190507) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire the necessary knowledge regarding diseases, diagnostic tests and treatment of problems of the gastrointestinal system. Upon course competition students will be able to recognize pathological situations of gastrointestinal system and the way healthcare professionals approach patients in order to provide diagnosis and treatment. In addition, students will familiarize with various diagnostic techniques and up-to-date therapeutics.

Module outline

- Approach of people with Digestive System problems
- Diagnostic tests of the gastrointestinal system
- Nutrition disorders
- Mouth cavity problems
- Problems of the esophagus
- Stomach and duodenum problems
- Small and large intestine problems
- Liver problems, Hepatitis, Liver Cirrhosis
- Problems of gall blander and duct
- Pancreatic problems
- Upper and lower digestive system hemorrhage
- Infections and malignancies of the gastrointestinal system
- Endoscopies – Management of an endoscopic clinic, diagnostic and therapeutic endoscopies (gastroscopy, colonoscopy, ERCP)

Written exams

RENAL NURSING (code 278-190508) (Specialised, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge and understanding of the complex and varied clinical issues associated with caring for people with renal problems. There is strong emphasis on the integration of the theoretical principles underpinning comprehensive and systematic assessment of the person with kidney disease with practical application in the clinical setting. The content focuses on a holistic approach and nursing care planning in order to provide students with skills to care for people with kidney problems pre-dialysis, dialysis and transplantation.

Module outline

- Introduction, history of Renal Replacement Therapies, future challenges, e-health, eco-nephrology
- Anatomy, Physiology of Kidneys, basic renal interventions, causes of renal disease and clinical manifestations

- Clinical Examinations in Renal Disease Diagnosis
- Psychological aspects of the disease, palliative care, quality of life of people with renal problems
- Acute Kidney Injury: causes, signs and symptoms, prevention of AKI, management, nursing care plan
- Chronic Kidney Disease: causes, signs and symptoms, prevention of AKI, management, nursing care plan
- Hemodialysis
- Peritoneal Dialysis
- Kidney Transplantation
- Nutrition in Renal Disease
- Care for children and Adolescents with renal problems
- Medication in Renal Disease
- Community Renal Nursing, Clinical Standards and Nursing Goals, Evidence based nursing, caring for diversity

Written exams

CRISIS MANAGEMENT IN NURSING (code 278-190509) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire basic knowledge and issues of Crisis management in order to be able to provide the appropriate nursing care plan for the safety of the people in the community. Upon competition of the course the students could be capable to implement the appropriate nursing care plan in emergency situations, to understand basic principles of crisis management and to identify crisis situation.

Module outline

- Basic definitions, types of crisis, preparation for management, stages of crisis management
- Organizing an education program for crisis management in the community
- Basic elements in crisis management
- Natural and Environmental disasters
- Transcultural care in global and national disasters
- Media and mass disasters
- Mental Health Management in Mass Disasters
- Child and mass disasters
- Resource management in mass disasters

- Hygiene and safety in working places
- Crisis management in the developing world
- Healthcare professionals Mental health management

Written exams

QUALITY ASSURANCE IN NURSING PRACTICE (code 278-190510) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on modern principles of organizing and promoting quality of delivered services, high quality of working conditions and the health-care services' role as protectors of environment and public health.

Module outline

- Quality in health-care services, historical evolution and usage
- Introduction in Total Quality Management and use of quality tools
- Total Quality Management in nursing
- Standardisation and healthcare products
- Nursing wards and facilities certification
- Quality in health-care settings
- Quality assurance system in healthcare setting
- Quality hygiene and safety management in workplace
- Environmental management
- Quality awards and assessment of healthcare systems
- Methods, techniques and quality tools in nursing
- Quality measurement from the customer point of view
- Patient satisfaction

Written exams

6th SEMESTER

MENTAL HEALTH NURSING (code 278-190601) (Specialised, Mandatory)

Module aims (THEORY) (4 hours, 4 ECTS)

Students will acquire knowledge in order to provide holistic individualized nursing care to people with mental problems according to the principles of mental health nursing. Students will acquire knowledge and skills regarding the therapeutic relationship between people with mental health problems and healthcare professionals. In addition, they will be able to participate in effective approach and support of the patient and his/her family. Finally, students will be able to provide a nursing care plan for people with mental health issues.

In the clinical lab students, in small groups, visit various mental health settings. During their placement they observe and participate in an everyday routine of the wards and/or community mental health settings.

Module outline

- Basic principles of mental health nursing: mental health, mental illness, normal vs pathological, theoretical frame of mental health nursing
- Psychiatric Reform in Greece: historical background, facilities, new approach and rules
- The role of Mental Health Nurse in primary care and clinical settings
- Prevention of mental disorders (primary, secondary, tertiary)
- Nursing communication with the patient and hiw/her family(techniques of therapeutic communication, barriers in communication, clinical interview)
- Stress disorders and crisis nursing care plan
- Nursing care for patients with schizophrenia
- Nursing care for patients with emotional disorders (mania, depression)
- Nursing care for personality disorders
- Nursing care for elderly people with organic mental disorders
- Nursing care for children with mental health problems
- Ethics in mental health nursing

Theory: written exams

Lab: clinical case study (4 hours, 4 ECTS)

NURSING ADMINISTRATION – HEALTH CARE MANAGEMENT (code 278-190602) (General Background, Mandatory) (3 hours, 3 ECTS)

Module aims

Students will acquire basic knowledge of nursing management and effective leadership in nursing administration through programming, organizing, leadership and evaluation. Emphasis

will be given in human resources management, while with in class practice students will be able to understand the demands of constant change in healthcare system in Greece. Finally, they will be able to implement those knowledge acquired.

Module outline

- Introduction to Healthcare Management, types of healthcare settings
- Nursing role in the modern healthcare system
- Basic management theories and Nursing Administration
- Systems of Nursing Care Provision
- Management, coordination and skills of the Transformational leadership
- Ethics in nursing administration
- Planning, programming, decision making and problems solving
- Staffing and programming in healthcare
- Human resources management, staff evaluation
- Motives, empowerment and nursing personnel development
- Time management, duties assignment, team working
- Communication in working environment, conflict management
- Financial management in nursing administration
- Change management in healthcare settings

Written exams

EMERGENCY NURSING/INTENSIVE CARE NURSING (code 278-190603) (Specialised, Mandatory)

Module aims (THEORY) (4 hours, 4 ECTS)

Students will acquire theoretical knowledge and will develop critical thinking in order to be able to assess and manage people coming to the Accidents and Emergency Department (A & E) and in Intensive Care Unit (ICU). Furthermore, they will be able to provide quality nursing care for people hospitalized in A & E and ICU. Students will be able to plan and implement an individualized nursing care plan and interventions for people hospitalized in A & E and ICU.

Module outline

- Introduction to emergency nursing, philosophy and definitions
- Ethics in emergency and intensive care nursing
- Fluid, electrolytes, acid-base balance
- Diabetes Mellitus and endocrinological problems
- Shock and resuscitation, Monitoring

• Respiratory tract problems – pulmonary embolism
• Cardiovascular problems
• Central Nervous System problems
• Cerebral injuries – multi-trauma patient management
• Gastrointestinal disorders, peptic hemorrhage, pancreatitis
• Burns
• Pain and its management
• Drug poisoning

Written exams.

Lab outline (6 hours, 6 ECTS)

• Airway management (mouth-pharyngial, nose-pharynx, laryngeal mask, tracheal tubes)
• Central Venous Pressure, Invasive arterial blood pressure
• Blood gases and acid-base balance, oxymetry
• Tracheotomy management
• Bronchial aspiration (suction)
• Aseptic technique, surgical hand washing, scrub nurse preparation
• Monitoring and mechanical ventilation

Oral exams/practice.

CLINICAL NURSING I (CLINICAL INTERNSHIP I) (code 278-190604) (Specialised, Mandatory) (7 hours, 7 ECTS)

Module aims

Students will implement the theoretical knowledge and skills acquired during previous semesters in patient-centered care and health promotion. Students assess patients' needs, implement appropriate nursing interventions and evaluate outcomes. In addition, they can make clinical decisions, work in a multiprofessional environment, and coordinate the team within the healthcare facility and/or in the community, or work autonomously in the community. Finally, the can provide care in hospital, at home, at school and in the working place.

Module outline

Clinical internship in secondary and tertiary healthcare facilities.

Written nursing care plan

GENETICS (code 278-190605) (General Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire the appropriate knowledge in order to understand basic principles of genetics, heredity, chromosome structure and genetic syndromes.

Module outline

- Basic principles of genetics
- Patient Chromosome study
- Chromosome functions
- Patient DNA study
- Patient DNA Mutations
- Hereditary abnormalities
- Genes that affect metabolism, reaction to medication
- Genetic diseases: tests, counseling, treatments (genetics, cell and stem cell)

Written exams.

DIABETES MELLITUS (code 278-190606) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire theoretical knowledge about epidemiology, diagnosis, pathogenesis, management and complications of Diabetes Mellitus (DM). Students will be able to identify main DM symptoms, to learn the long-term complications, to identify education process for people with DM, to learn the dietary advices regarding DM and to learn about orally administered medications and insulin. Finally, students will be able to provide the appropriate care for people with DM>

Module outline

- Epidemiology of Diabetes Mellitus (DM)
- Classification and Diagnosis of DM
- Pathogenesis of DM
- Nutrition and DM
- Obesity
- Microvascular complications of DM
- Macrovascular complications of DM
- Cardiovascular complications of DM
- Therapeutic approach with oral medication
- Insulin therapy – medication pumps
- Panceatic transplantation

Written exams.

HISTORY OF NURSING SCIENCE (code 278-190607) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on the history of nursing in Greece and internationally and milestone events of the past and today. Students will acquire knowledge on development of nursing from the ancient times to today, to approach the philosophy and principles of nursing at specific time periods and to describe elements that contributed to nursing development.

Module outline

- Early nursing, ancient people
- Nursing in ancient eastern cultures (Chinese, Persian, Indian, Siamese, Mesopotamia, Judea, Egypt)
- Nursing in ancient Greece (Crete, Homeric Era, Asklepeion, Hippocrates)
- Nursing in Byzantine Era
- Nursing in Arab culture
- Nursing in the West (Medieval, Renaissance, Enlightment)
- Nursing in the New World
- Nursing during the 19th and 20th century, nursing personalities (F. Nightngale)
- Theories in nursing science, International Council of Nurses
- Nursing during war, Erick Dynan, International Red Cross
- New Greek Nursing Era: from the Fall of Constantinople to Greek Revolution of 1821, revolutionary years
- New Greek Nursing Era: from New Greek State to the Balkan Wars, 1st World War and 2nd World War
- From Greek Gorilla War to nowadays, Greek National Nurses Association, personalities of Greek Nursing, Greek Red Cross

Written exams.

7th SEMESTER

ETHICS AND DEONTOLOGY IN NURSING SCIENCE (code 278-190701) (General Background, Mandatory) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge regarding ethics, deontology and law. They will acquire basic knowledge on civil, criminal and disciplinary law (liability, criminal liability, disciplinary action) in public and private sector. In addition, they will acquire knowledge on Nursing Code of Ethics, basic principle of bioethics, and the implementation of bioethics in clinical research.

Module outline

- Ethics and bioethics
- Basic principle of bioethics
- Bioethics and nursing
- Nurses Code of Ethics in national and international level
- Nurses professional rights
- Elements of Civil Service Code
- Liability, introduction to liability law, legal transaction, trot, legal responsibility & liability for damages
- Liability, conditions for liability, illegal behavior, medical and nursing negligence, patient consent, fault, discrimination
- Patient Rights and Nurses' Rights
- Ethical dilemmas in nursing
- Decision making in nursing practice
- Nursing confidentiality
- Dilemmas regarding genetics, transplantation, euthanasia

Written exams.

WRITING AN ACADEMIC ESSAY (code 278-190702) (General Background, mandatory) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on literature search in Greek and International Databases in order to be able to conduct and present his/her final thesis, as well as scientific essays/papers. Upon completion students will be able to show analytic and synthetic skills in writing a scientific essay, to be able to present in a small group of other students with the use of technology.

Module outline

- Plan and evelopment of an academic essay
- Greek and International Scientific Journals for Healthcare
- Writing a literature review paper
- Writing a research study paper
- Literature review in electronic databases
- Writing references with Harvard system
- Writing references with Vancouver system
- Guidelines regarding final thesis
- Presentation of a nursing topic in a group of students – Discussion, evaluation

Written essay (individual or group)

TEACHING METHODS IN NURSING (code 278-190703) (General Background, Mandatory) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge of teaching principles and methods, as well as skills of planning and programming teaching in nursing. Students upon completion of the course students will be able to be an educator and mentor in order to approach and educate patients, nurses and students within the academic environment.

Module outline

- Meaning, definition and nature of teaching and learning. Factors affecting the teaching/learning process
- Teaching, development, learning. Psycho-paedagogical principles (cognitive, human-centered)
- Learning types
- Teaching models & models of teaching in nursing
- Teaching methods: lecture, demonstration, small groups, discussion
- Feedback in nursing education
- Clinical mentor: clinical practice in nursing education
- Teaching process evaluation, evaluation criteria and methods.

Presentation of teaching in classroom

WOMEN'S HEALTH/MATERNITY NURSING (code 278-190704) (Specialised, Mandatory) (3 hours, 3 ECTS)

Module aims

Students will acquire knowledge in order to understand the physiology and problems of the woman's reproductive system and problems that could affect women's health. In addition, they will be able to know the factors that lead to a healthy pregnancy, to understand the physiology and pathology of pregnancy and labor and to provide specific interventions to ensure healthy labor, newborn and post-partum period. Upon completion students will be able to analyse women's health problems and provide appropriate interventions, to report and analyse preventive measures for controlling life-threatening situations. In addition, they could understand basic principles of anatomy-physiology of women's reproductive system, fetus development and physiology of pregnancy and labor. They could promote women's health and analyse the nurses' role, preventive measures in adolescence, pregnancy, labor, post-partum, and menopause. Finally, they could identify pathological situation that could be experienced by women and fetus during pregnancy, labor and post-partum period.

Module outline

- Anatomy-physiology of women reproductive system
- Women's health, preventive measures, gynaecological history
- Contraception methods
- Infections of genitals, prevention
- Gynaecological problems and nursing care
- Dangers in reproductive age, infertility
- Benign and malignant diseases of gynaecological system, nursing care
- Breast cancer – nursing care
- Menopause and nursing care
- Pregnancy physiology, nursing care
- Labor – nursing care
- Labor pathology – nursing interventions
- Post-partum period, problems, nursing care
- Diseases of the women reproductive system, adolescent gynaecology, menopause

Written exams.

CLINICAL NURSING II (CLINICAL INTERNSHIP II) (code 278-190705) (Specialised, Mandatory) (14 hours, 14 ECTS)

Module aims

Students will implement the theoretical knowledge and skills acquired during previous semesters in patient-centered care and health promotion. Students assess patients' needs, implement appropriate nursing interventions and evaluate outcomes. In addition, they can make clinical decisions, work in a multiprofessional environment, and coordinate the team within the healthcare facility and/or in the community, or work autonomously in the community. Finally, the can provide care in hospital, at home, at school and in the working place.

Module outline

Clinical internship in secondary and tertiary healthcare facilities.

Written nursing care plan

CARDIOLOGY NURSING (code 278-190706) (Specialised, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on anatomy and functions of the cardiovascular system, on basic principles of assessment and management of cardiovascular diseases. In addition, they will learn methods of preventing and changing aggravating factors, nursing role during diagnostic tests and therapeutic interventions during pre-and post-surgical period. Finally, the will acquire knowledge on ways to cope with problems in the clinical area using new research and scientific data.

Module outline

- Anatomy and physiology of heart and cardiovascular system
- Estimation of needs of people with heart problems (health history, clinical examination, ECG, imagine tests, haemodynamic monitoring)
- Nursing care for people with arterial blood pressure
- Nursing care for people with coronary heart disease (chronic coronary disease, acute coronary syndromes)
- Nursing care for people with arrhythmias
- Nursing care for people with heart infections (pericarditis, endocarditis, myocarditis)
- Nursing care for people with valve diseases
- Nursing care for people with aorta and peripheral artery diseases (aorta aneurysm, peripheral arteriopathy, artiritis)
- Heart failure: types and pathophysiology, compensatory mechanisms, nursing care plan
- Heart attack: etiology, pathophysiology, clinical manifestations, therapeutical approach and nursing interventions
- Nursing role for people undergoing invasive interventions and surgeries
- Nursing care for people with cognitive heart diseases
- ECG: basic elements, normal ECG, ECG disorders
- Sudden death, heart attack, CPR
- Nursing care plan, basic groups of medications

Written exams.

COUNSELING IN NURSING (code 278-190707) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on theory, methods and implementation of counseling nursing. Students will develop basic counseling skills. Upon completion of the course students will apply theoretical knowledge in practice, could understand counseling process and therapeutic relationship between counselor and patient taking in mind ethical and deontological problems. Students can incorporate counseling in everyday clinical practice and nursing care, can apply skills and techniques in supporting and educating patients, families, and healthcare professionals. They could discuss strategies for safe management of attitude disorders in hospital and in the community. In addition, they could create a safe environment to promote health despite cultural and religious background, and gender. Students will be able to work individually and as a part of multiprofessional team.

Module outline

- Introduction, definitions, aims of counseling, psychotherapy, counseling and multiprofessional approach, health promotion, primary health care and mental health
- Theories and models of counseling, psychodynamics, cognitive-attitude approach, systemic approach.
- Ethics and deontology in counseling
- Nurse as a counselor
- The process of counseling
- Specialised counselling and communication: multicultural patients, communication with different age groups, management of different age groups, management of "difficult" emotions and patient/family responses, family approach.
- Research and counseling
- Counseling and burnout.

Written exams

PERIOPERATIVE NURSING (code 278-190708) (Specialised, Elective) (2 hours, 2 ECTS)

Module aims

Students will provide specialized theoretical and clinical knowledge regarding perioperative (pre-, intra- and post-operative) nursing care. Upon completion students can evaluate patients' needs and plan individualized nursing care. In addition, they will be familiarized with organizing an operating theatre and anaesthetics department, and they will understand principles of patient safety and quality of care. Finally, they can develop cooperation skills, coordination and participation in multiprofessional therapeutic team.

Module outline

- Basic elements of peri-operative nursing care (ethics, professional and legal practice)
- Basic principles of aseptic techniques

- Interpersonal relationships and communication in operating theatre, anaesthetics and central sterilization
- Basic monitoring, basic airway management
- Nursing care of patient under anaesthesia, post-anaesthetic care, complications, Post-anaesthetic Care Unit
- Nursing care of patient under surgery (pre-, intra- and post-operative care)
- Basic principles of emergency surgeries – Nurses' role
- Perioperative children care
- Care for special group of patients: severe or multisystem problems, people with high contagious disease and/or immunosuppressant patients.

Written exams

SCHOOL NURSING (code 278-190709) (Specialised, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge regarding school nursing aiming at preservation, promotion and rehabilitation of pupils' health. Students will be able to contribute to psychosocial approach and education of pupils as biopsychosocial being. Upon completion students will be able to apply skills on information collection and education of pupils on acute and chronic health problems in school environment. Students will provide a nursing care plan based on nursing process in order to understand the concept of school nursing. In addition they will analyse nursing care in the context of primary, secondary and tertiary preventions. Finally, students will be able to assess the school's safety of natural and social environment and to contribute to interactions with families and community.

Module outline

- History, aims, definition of school nursing
- Role of school nurse
- Pupils' Health File
- Application of nursing process in the school environment
- Health promotion and prevention of diseases in the school environment
- School nurse and child with acute health problem (first aid, nutritional problems, immunization)
- School nurse and child chronic health problem (allergies, psychoemotional disorders, cognitive disorders, children with special skills)
- School nurse and school environment with high risk attitudes (smoking, violence, bulling, pregnancy, culturally diversity)
- School nurse and family

- School nurse and community
- Ethical dilemmas and future trends in school nursing

Written exams

8th semester

COMMUNITY NURSING II (code 278-190801) (Specialised, Mandatory)

Module aims

Students will acquire knowledge on community-families-people health needs, on the effect of social, transcultural, ecological problems, on the environmental health risks, on programming and providing prevention, promotion and maintaining services, on crisis management both in healthy and ill people. Upon completion students will be able to assess health needs of the community, health promotion and providing nursing care in Primary Care Settings. In addition, students will be able to promote health in different age groups and different cultural background groups and in every other special population group. Students will be able to manage a crisis in public health and natural environment, changes in economics and human relations.

Module outline

Theory (4 hours, 4 ECTS)

- Community health promotion
- Organising Primary Health-care Facilities
- Assess and document epidilogical profile of the community with respect to the environment, multicultural elements and life conditions
- Provide health promotion services to the general public and in special groups of people (immigrants, refugees)
- Predict, assess and problems in public health within the community
- Individual, group and multiprofessional services in public health
- Autonomy in nursing interventions in national, european and international level

Written exams

Lab (4 hours, 4 ECTS)

Students will be trained under supervision in Healthcare Services, in Community and Municipality clinics, in elderly care services and in other primary care settings. They can also train in house visits aiming at promoting health and disease promotion.

Clinical practice in the lab and healthcare settings.

NURSING CARE FOR THE ELDERDLY/GERIATRIC NURSING (code 278-190802) (Specialised, Mandatory) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on basic elements of nursing care for the elderly and principles of geriatric nursing and theories about aging and changes in body systems. Students

will be able to understand nursing interventions in acute and chronic problems of the aged, accident prevention and their complications. In addition, to understand special pathologic situations of the aged and cultural differences in caring for the elderly. Upon completion students will learn the physiological changes that come with age, to assess the elderly patients' state of health, to organize, manage and endorse guidelines regarding care of the elderly. In addition, students will be able to provide holistic and individualized nursing care to elder people and their families in hospital and in the community. They could indorse new technologies and make decision regarding the best nursing care. Finally, they could plan and manage holistic care for elderlies, work within a multiprofesional team and autonomously.

Module outline

- Greek population health. Demographics.
- Population aging: aging theories, philosophy of geriatric nursing
- Characteristics of aging, changes caused by aging, biological, psychological, functional, social changes and losses
- Health estimation, assess nursing needs for the elderly,
- Nutritional needs, factors affecting nutrition, social and cultural views regarding nutrition, malnourishment in the elderly.
- Activity and exercise in the elderly.
- Communication with the elderly, communication barriers
- Health maintenance and community nursing, cultural diversity.
- Sleep disorders, cognitive changes, violence, stress and its management
- Falls and fractures, accidents, home safety, road accidents
- Medications and the elderly, nursing care, education regarding medication, prevention of medication accidents
- End-of-life care, death management and planning the end-of-lige.
- Research in Geriatric Nursing

Written exams.

CLINICAL NURSING III (CLINICAL INTERNSHIP III) (code 278-190705) (Specialised, Mandatory) (14 hours, 14 ECTS)

Module aims

Students will implement the theoretical knowledge and skills acquired during previous semesters in patient-centered care and health promotion. Students assess patients' needs, implement appropriate nursing interventions and evaluate outcomes. In addition, they can make clinical decisions, work in a multiprofessional environment, and coordinate the team within the healthcare facility and/or in the community, or work autonomously in the community. Finally, the can provide care in hospital, at home, at school and in the working place.

Module outline

Clinical internship in secondary and tertiary healthcare facilities.

Written nursing care plan

HEALTH ECONOMICS (code 278-190804) (General Background, Mandatory) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge in order to provide students with knowledge and skills in order to be able to understand the way the healthcare services work, the way the expenses are formed, the way healthcare is financed as well as the establishment and formation of healthcare systems within the European Union and the United States of America.

Module outline

- Introduction in Health Economics, health as a gift. Definitions and indexes, levels of healthcare, the state's role
- Health-care Systems, special characteristics, types (liberal, Beveridge, Bismark)
- International experiences: Great Britain, France, Germany, USA
- Health costs, health costs in developed and developing world
- Factors affecting health costs, induced demand for healthcare services
- Health market, offer and demand of healthcare services, market mechanisms (decentralized and centralised system)
- Health insurance, insured dangers, benefits, costs, financing, social security system
- Health and insurance in Greece, financing of health-care systems (primary, secondary health-care), public health insurance, private health insurance
- Organizing and management of healthcare services, basic meanings, special needs of health-care services, basic managerial activities
- Programming healthcare services, working positions, cooperation
- Efficiency and quality of health-care services, meanings and factors affecting, practices to improve efficiency

Written exams.

MOLECULAR ANALYSIS TECHNICS (code 278-190805) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge on the Science of Genetic engineering and Biotechnology, their application on various sectors. Students will learn new genetic methodology used today in the genetic analysis, such as DNA extraction, agarose gel electrophoresis, PCR and

sequencing analysis. In addition, they will learn how to use the results of their experiments, as well as bioinformatics tools.

Module outline

- Genetic Engineering-Biotechnology
- Structure and function of nucleic acids
- Central dogma of Molecular Biology
- DNA denaturation- renaturation
- Fine structure of the gene, biological definition of the gene
- Gene regulation in prokaryotes and eukaryotes
- Restriction endonucleases, formation and cloning of recombinant DNA, cloning vectors
- Genetic modification techniques. Genetic modification in plants, genetic modification in fish, genetically modified products and the European Union, Bioethics.
- DNA libraries
- Genetic identification lab equipment
- DNA extraction
- Agarose gel electrophoresis.
- Polymerase Chain Reaction (PCR)
- Restriction Fragment Length Polymorphism (RFLPs) analysis
- Sequencing analysis
- Random Amplified Polymorphic DNA (RAPDs) analysis
- Real Time PCR
- Variable Number of Tandem repeats (VNTRs) analysis
- Allozyme analysis

Written exams

PALLIATIVE CARE IN NURSING (code 278-190806) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will be introduced to the philosophy of palliative car and will acquire knowledge and skills in order to be able to provide holistic nursing care to patients (adults and children) who are at the end-of-life and/or suffer from some type of cancer and/or other life-threatening disease. They will learn to collaborate with all members of the inderdisciplinary team, patients, carers and volunteers in order to meet physical, psychosocial and spiritual patients' needs in all palliative care services, both in hospices and in home care services. Upon completion students will be able to understand the concept of palliative care and to provide palliative care for patients with chronic disease, will implement ethical principles in caring and to provide individualized care.

Module outline

- Basic principles and philosophy of palliative care, historic evolution, palliative care facilities in Greece and abroad, end-of-life hostels and home services
- Nurses' knowledge, attitudes and skills in the provision of palliative care
- Psychosocial and mental needs assessment tools
- Pain and suffering in clinical practice
- Guidelines, protocols and nursing care plans for people with nausea, vomiting, fatigue, dyspnea, stress, depression)
- Therapeutic nursing communication with end-of-life patients
- Acute incidents management
- Taking difficult decisions. Ethical dilemmas
- Paediatric palliative care
- Priorities and nursing care interventions for the end-of-life
- Grief and bereavement in palliative care-support for caregivers

Written or oral exams

NUTRITION/DIETICS (code 278-190807) (Special Background, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge and skills in order to understand basic dietary needs, the relationship between nutrition and development stages, and during pregnancy and various diseases.

Module outline

- General principles of nutrition, vitamins, elements
- Basic needs of the human body, food metabolism, body mass index
- Malnutrition, obesity, Nutrition disorders
- Nutrition in pregnancy, breast feeding, newborn feeding
- Nutrition in childhood and adolescent
- Nutrition of the elderly
- Total parenteral and enteral nutrition
- Nutrition and diabetes mellitus
- Nutrition and cancer
- Nutrition and cardiovascular diseases

• Nutrition and renal problems

• Nutrition and pathology of gastrointestinal system

Written exams.

NEUROLOGICAL/NEUROSURGICAL NURSING (code 278-190808) (Specialised, Elective) (2 hours, 2 ECTS)

Module aims

Students will acquire knowledge in order to recognize the symptoms of neurological and neurosurgical diseases, the changes in physical and psychoemotional level, to assess patient's and families' social needs so that they can successfully implement holistic nursing care both within a hospital and after discharge in the community. Upon completion students will be able to recognize changes in neurological and neurosurgical diseases and to plan appropriate nursing care.

Module outline

- Nervous system: central and peripheral
- Aims of neurological/neurosurgical nursing
- Sensory organs
- Stroke
- Epilepsy, Headaches
- Encephalitis, meningitis, herpes, multineuropathies
- Chronic nervous system disorders: Alzheimer's disease, dementia, Parkinson's disease, Gravis myopathy, Multiple sclerosis
- Acute nervous system disorders: cerebral pressure, cerebral oedema, brain injury, brain tumors, hydrocephalus
- Traumatic Brain Injuries
- Spine injuries, spine tumors
- Patient rehabilitation, Family support
- Preparation for discharge and continuity of care

Written exams