



Creating Opportunities and Occasions to Promote a European Result-based Action for Training and Education - COOPERATE

Study of the National Situation in Terms of Qualification Frameworks in Greece

Developed by InnovED & University of Thessaly

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1. Regulation and Legislation of the nursing profession and nursing assistant in Greece

1.1 Regulation and Legislation of the nursing profession in Greece

Nursing in Greece is regulated by the Hellenic Regulatory Board of Nurses (HRBN)[1]. This is a self-managed authority for registered nurses established in 2004 under Law 3252/2004. The internal organization of the HRBN is managed through legislative provisions. These are based on legislative authorization by the government, or by the collective body that manages the authority itself, whose decisions are approved and authorized by the Minister of Health. [2]. The aim of HRBN is: to ensure the health of the population through the maintenance of nurses' professional practice, to hold the Professional Register Records responsible for licensing and disciplinary procedures.

The current situation on nurse education in Greece is described below: In the beginning of 2019, the Greek Government is passing a series of legislations as a reform of Higher Education. Most of the technological educational institutions are either upgraded to universities or are being incorporated into existing universities as new faculties. This legislation is currently under implementation, and its consequences will be more visible from 2020 onwards. For nursing, those who previously graduated from technological educational institutions will have the opportunity for top-up programs to be upgraded to university graduates, whereas existing nursing students at technological institutions when they graduate are becoming by default university graduates. Regarding the certification processes, the diplomas provided upon graduation by the Higher Education Nursing Institutions (universities and technological educational institutes) testify to the adequacy of knowledge and nursing skills. All nurses are required to be registered by the HRBN. According to Eurostat data, there were 19.743 practising nursing professionals in Greece in 2015 (down from 19.973 in 2013). [3]

1.2 Regulation and Legislation of the nursing assistant in Greece.

To become a nursing assistant in Greece, one must study in one of the nursing schools that belong to Secondary Education [Vocational Training Institute (IEK) or Technical Vocational High School (T.E.E) A' and B' cycles of the Nursing Assistant specialty, in Vocational School and Vocational High School (EPA.S and EPA.L)"Nursing Assistants" and in the Vocational

School of the Public Service Employment (EPA.S DYPA) of the "General Nursing Assistants" specialty].

More specifically in order to obtain a license to practice as a nursing assistant, the following are required:

- a) Level 2 degree (Technical Vocational High School A'cycle of studies) in the specialty Nursing Assistants and twelve (12) months of practical training or
- b) Level 3 degree (Technical Vocational High School B '/ study cycle) of the Nursing Assistant specialty and six (6) months of practical training or
- c) Level 3 or 4 degree (Vocational High School) of the Nursing Assistants and six (6) months of practical training or
- d) Level 3 degree (Vocational School of the Public Service Employment) in the specialty General Nursing Assistant and six (6) months of internship
- e) Level 5 Degree (Diploma of Vocational Training Institute) in the specialty Nursing Assistant General Hospital of Law 4186/2013 which has been obtained after successful participation in the certification exams of the National Organization for the Certification of Qualifications and Professional Guidance (E.O.P.E.P.E.P.) or
- g) Level 5 Degree (Diploma of Vocational Training Institute) in the specialty "Nursing and Midwifery Assistant" of Law 4186/2013 for those who hold a Certificate of Professional Training until December 2021 and have passed the certification exams of the National Organization for the Certification of Qualifications and Professional Guidance (E.O.P.E.P.E.P).

2. National situation in terms of Qualification Frameworks in Greece

2.1 Pre - registration nursing education and training

Nursing education in Greece is regulated by the Ministry of Health. Regulations are based on those established by the International Council of Nurses and on World Health Organization guidelines. In addition, committees within the nursing departments in provider institutions define the process and the criteria for developing specialist approaches related to practice and to specialization based on the specific requirements of each department.

Training of nurses in Greece conforms to EU standards for mutual recognition of qualifications according to European Community directive-regulating the free movement of European health professionals. For undergraduate studies, a student may pursue either a four-year undergraduate degree in a university or four-year undergraduate studies at a higher technological education institute (ATEI).[4] Both programmes require 240 ECTS credits for graduation. The academic degrees provide students with a professional degree. ATEI nursing schools and university nursing schools differ in the delivery of in-hospital training sessions. ATEIs provide training for a full year as trainee hospital employees, whilst university nurses receive training sessions during visits to university hospitals alongside their undergraduate studies.

The basic nursing course takes four years (approximately eight semesters), of which the eighth semester is dedicated to clinical practice. Clinical training is provided in nearby university and public hospitals, within their clinics and units.

2.2 Pre- registration nursing assistant education and training

The training program of the nursing assistant specialty from a public or private professional training institute is shown in the table.

	SEMESTER		Α			В			С			D	-
SN	COURSES	THEORY	LAB	TOTAL									
1	NURSING I,II	4	4	8	4	4	8						
2	FIRST AID	1	2	3									
3	ANATOMY	2		2									
4	PHYSIOLOGY	2		2									
5	PHARMACOLOGY	1		1									
6	HYGIENE- MICROBIOLOGY	1		1									
7	PRACTICAL APPLICATION IN THE SPECIALTY		3	3									
8	SURGERY I,II				2		2	2		2			
9	PATHOLOGY				2		2						
10	GYNECOLOGY- PEDIATRICS				2		2						
11	ELEMENTS OF PSYCHIATRY - NEUROLOGY				1		1						
12	NURSING (PRACTICING IN THE HOSPITAL) I,II,III					5	5		14	14		16	16
13	STERILIZATION- DISINFECTION							1	1	2			
14	BLOOD DONATION							2		2			
15	DEALING WITH EMERGENCIES										2		2
16	ORTHOPEDIC										2		2
	TOTAL	11	9	20	11	9	20	5	15	20	4	16	20

Studying at Vocational Training Institute is a total of five semesters, divided into four semesters of theoretical and laboratory training with a total duration of up to 1,200 specialty teaching hours, according to the approved study programs and one semester of internship ($\pi\rho\alpha\kappa\tau\iota\kappa\dot{\eta}$ άσκηση) or apprenticeship($\mu\alpha\theta\eta\tau\epsilon\dot{\iota}\alpha$), with a total duration of 960 hours[5].

By completing his/her studies, the trainee has obtained all the knowledge that enables him/her to work in the entire range of care structures, such as: public or private hospitals, public or private clinics, community centers, nursing homes, chronic disease clinics, health centers, social welfare structures (day care center, home help program, etc.), psychiatric structures.

3. Post-registration nursing education and training in Greece

3.1 Obtaining a nursing specialty

The acquisition of a nursing specialty promotes the theoretical and practical training of professional nurses in order to offer quality, documented, specialized and effective nursing care, in the entire spectrum of health care (primary, secondary and tertiary health care). In addition, it contributes to the production of new knowledge in the field of health by actively participating in research.

3.2 Conditions for obtaining a nursing specialty

The conditions for obtaining a nursing specialty include:

- a) Degree of tertiary nursing education (University or ATEI) or equivalent school of the country or abroad, officially recognized by the Interdisciplinary Organization for the Recognition of Academic Titles and Information (DOATAP).
- b) Member ID of the Hellenic Nurses Union , which must be valid or Certificate of Renewal of Registration in the Hellenic Nurses Union of the current year or Certificate of Registration in the Hellenic Nurses Union, for those registering for the first time, which is valid until the end February of the following year from its publication, in accordance with the provisions of par. 5 of article 4 of Law 3252/2004 (A').
- c) License to practice the profession of Nurse.
- d) Responsible declaration that they have not resigned from a permanent or of private law of a certain time position as a nurse of the National Health System, in the last year.

The training program has a duration of eighteen (18) months. Candidates can be trained in one of the following specialties [7]:

- Mental Health Nursing
- Palliative and Supportive Nursing Care
- Gerontological Nursing
- Nursing Cardiovascular Diseases
- Oncology Nursing
- Pathological Nursing
- Children's Nursing
- Surgical Nursing

3.3 Specialist's Training booklet

The specialist's training booklet records the content of the training, the performance and progress, as well as the corresponding activity of the trainers. A detailed record is made of the nursing procedures and interventions that correspond to specific nursing roles, which the specialists performed during their training, in accordance with what is provided by law [8].

4. Definition of Learning Outcomes

4.1 Palliative and Supportive Nursing Care

The main purpose of the specialization is to acquire the necessary knowledge, skills and attitudes of qualified nurses, so that they are able to advocate for the importance of Palliative and Supportive Nursing Care in patients with serious, chronic and life-threatening diseases and their families regardless of age, stage of disease, place of care, as well as to provide competently and compassionately quality, documented, specialized effective care. The table 1 describes the educational modules and the allocation of time of the specialty

Specialty	Educational Modules	Allocation of time
	1. The right of equal patient access	Pathology department three (3)
	to palliative care	months,
	2. Communication in palliative	Neurological / nephrology
	care	Department two (2) months,
	3. Ensuring the physical comfort of	Cardiology / Pulmonology Department
	patients in the palliative care	two (2) months,
	4. Basic principles of patient	Pathological oncology department
	symptom assessment and	three (3) months,
	management - Symptom	Surgical oncology department three
	complexes	(3) months,
Palliative and Supportive	5. Psychosocial and mental	Inpatient palliative care services two
Nursing Care	support of the patient / family	(2) months,
	in the palliative care	Outpatient palliative care services
	6. Care plan and clinical decision-	three (3) months.
	making in the palliative care	
	7. Palliative care of special and	
	vulnerable populations	
	8. Loss and mourning in palliative	
	care	
	9. End of life care	
	10. Basic principles of organization	
	and service quality	
	improvement of palliative care	
	11. Nursing leadership in palliative	
	care	

4.2 Gerontological Nursing

The purpose of the specialty is to provide an educational framework that will encourage the development of analysis, critical thinking and problem solving skills as well as positive attitudes and behaviors by nurses so that they actively participate in healthy aging of older people, provide care to older people and their families, contribute to the creation of age-friendly communities and respond to the constantly changing needs of Gerontological Nursing. The table 2 describes the educational modules and the allocation of time of the specialty.

Table 2. Gerontological Nursing. Educational Modules and Allocation of time

Specialty	Educational Modules	Allocation of time
	1. Aging. Conceptual	Pathology Department
	definitions. Biopsychosocial	one (1) month
	extensions	Neurology Department
	2. Documented	one (1) month
	gerontological nursing	Cardiology department
	3. Communication and	one (1) month
	Counseling in elderly	Pulmonology Department
	4. Active and Healthy Aging	one (1) month
Gerontological Nursing	5. Disorders relating to aging	Orthopedic department
	6. Common diseases in the	one (1) month
	elderly	Surgical department one
	7. Common geriatric	(1) month
	syndromes	Outpatient clinics of
	8. Aging and Psychosocial	various specialties one (1)
	consequences	month
	9. Homecare of the elderly	Adult ICU one (1) month
	and caregivers	Emergency Department
	10. Pharmaceutical care of	for adults one (1) month
	elderly people	Primary Health Care (PHC)
	11.Nursing care of the	unit four (4) months
	elderly in emergency	• Structures / Services
	situations	providing home care five
	12.Palliative care of the	(5) months

elderly	
13.Long- term care and	
rehabilitation of the elderly	

4.3 Nursing Cardiovascular Diseases

The purpose of the specialty is to acquire theoretical knowledge and clinical experience, as well as to cultivate and develop skills and abilities. Nurses will be able to provide individualized and holistic care to adult patients with acute or chronic cardiac diseases. Upon successful completion of the residency, nurses will be able to know and apply the principles of providing evidence-based nursing care to patients with cardiac disease. The table 3 describes the educational modules and the allocation of time of the specialty.

Table 3. Nursing Cardiovascular Diseases. Educational Modules and Allocation of time.

Specialty		Educational Modules	Allocation of time
		1. Anatomy and Physiology	• Eight (8) months in
		of heart and blood vessels.	Cardiology Clinic
		2.Diagnostic approach to a	• Two (2) months in a
		patient with cardiovascular	Cardiac Surgery
Nursing	Cardiovascular	disease.	Clinic or Clinic, in
Diseases		3. Nursing care of patients	which patients who
		with cardiovascular disease.	have undergone
		4. Interventional procedures	cardiac surgery are
		in the treatment of	treated
		cardiovascular disease.	• Three (3) months in
		5. The cardiology nurse in	a Coronary Unit
		health care structures.	• Two (2) months in

6.	Prevention	of		Cardiac	Surgery U	nit
cardio	vascular disease.		•	One (1) month	in
7. Card	diac rehabilitation	n.		heart su	rgery	
8. Spe	cial issues in the	e care	•	One (1) month	in
of	patients	with		cardiolo	gy	
cardio	vascular disease.			Emerge	ncy	
				Departr	nent	
			•	One (1)	month i	n a
				Hemody	namic/	
				Laborat	ory	

4.4. Mental Health Nursing

The main purpose of the specialty is the advanced theoretical and applied clinical training of nurses in the specialized treatment of people with acute and chronic mental health problems and their caregivers, in order to provide quality and then mental health care, prevention and treatment across the spectrum of individual, family and community life. The table 4 describes the educational modules and the allocation time of the specialty.

Table 4. Mental Health. Educational Modules and Allocation of time

Specialty	Educational Modules	Allocation of time
	1. Evidenced based	Twelve (12) months in a
	mental health nursing	Hospital Psychiatric
	care	Department, of which at
	2. Therapeutic	least two (2) months in a
	environment -	Child Psychiatry and six (6)
	therapeutic	months in Community
Mental Health Nursing	relationship –	Mental Health Facilities and
	therapeutic	Mental Health Rehabilitation
	communication	Facilities
	3. Advanced mental	
	Health Nursing I :	
	Crisis Intervention –	

Emergencies

- 4. Advanced Mental Health Nursing II: Anxiety Disorders-Somatoform and dissocial personality disorders
- 5. Advanced Mental Health Nursing III: Psychotic Disorders
- 6. Advanced Mental Nursing IV: Emotional Disorders
- 7. Special Therapeutic Interventions and Advanced Psychopharmacology
- 8. Mental Health

 Nursing in Obstetrics

 and Gynecology
- 9. Advanced Child and Adolescent Mental Health Nursing
- 10. PsychogeriatricNursing
- 11. InterdisciplinaryPsychiatrric Nursing
- 12. Community- Social-Intercultural Mental Health Nursing
- **13.** Advanced Mental Nursing in Substance Addiction

4.5 Oncology Nursing

The purpose of the specialty is the theoretical and applied clinical training of nurses, so that on the one hand they support cancer prevention and early diagnosis programs, and on the other hand they provide specialized and quality nursing care to oncology patients, both in hospital and outpatient settings. The table 5 describes the educational modules and the allocation of time of the specialty.

Table 5. Oncology Nursing. Educational Modules and Allocation of time

Specialty	Educati	onal Modules	Allocation of time
	1.	Evidence- Based	• six (6) months in
		Nursing Clinical	Pathological
		Practice – Resource	Oncology
		and Personnel	Departments [one
Oncology Nursing		Management	(1) month in a Pain
	2.	The context of	and Palliative Care
		Oncology care	Clinic]
	3.	Pathophysiology of	• six (6) months in
		cancer and principles	Surgical Oncology
		of therapeutic	Departments [one
		decision - making	(1) month Surgery]
	4.	Health Promotion,	• two (2) months in
		prevention and early	Day Care Units
		identification of	• two (2) months in
		cancer	Intensive Care Units
	5.	Main types of cancer	(ICU) and Emergency
	6.	Treatment and care	Departments (ED)
		of cancer patients –	• one (1) month in
		Patient safety	Home care
	7.	The management of	structures and/or in
		the main oncological	Preventive Control
		problems	Departments
	8.	The management of	• one (1 month) in
		psychosocial	Radiotherapy
		problems of	Departments.
		oncological patients	

9. Basic principles of
outpatient care of
oncology patients
10. Basic principles of
Palliative Care for
Oncology Patients
11. Special topics in
Oncology Nursing

4.6 Pathological Nursing

The purpose of the Pathological Nursing Specialty is to acquire theoretical knowledge and clinical skills in the care of patients with pathological diseases in the hospital environment. This purpose will be achieved through the nursing process, nursing diagnoses, nursing interventions and the evaluation of results in the context of the care of patients of the Pathology Department. The table 6 describes the educational modules and the allocation of time of the specialty.

Table 6. Pathological Nursing . Educational Modules and Allocation of time

Specialty	Educational Modules	Allocation of time
	1.Purpose and context of	Pathology Clinic
	Pathological Nursing	Eight (8) months
	Specialty	 Emergency
	2. Fluids and Electrolytes –	Department of
Pathological Nursing	Acid –Base Balance	Pathology Three (3)
	3. Diseases of the Endocrine	months
	System	Regular Outpatient
	4. Diseases of the	Pathological Clinics
	Cardiovascular system	One (1) month
	5. Diseases of the	• Cardiology Clinic
	Hematopoietic System	and Heart Attack
	6. Diseases of the Nervous	Unit One (1) month

System	Pulmonology Clinic
7. Diseases of the	One (1) month
Respiratory System	Hematology Clinic
8. Diseases of the Digestive	One (1) month
System	Neurological Clinic
9. Diseases of the Urinary	One (1) month
System	Endocrinology Clinic
10. Rheumatic and Collagen	One (1) month
Diseases	• Diabetes -
11.Diseases of the Head,	Endocrinology Clinic
Neck and Sensory Organs	One (1) month
12. Communicable Diseases	
13. Special Situations in	
Pathological Nursing	
14. Special Topics in	
Pathological Nursing	
·	

4.7 .Children's Nursing

The purpose of the Children's Nursing Specialty is to acquire specialized knowledge of nursing care for children that aims to develop critical thinking, so that the nurse can plan nursing care in a clear and methodical manner, using the modern scientific data of pediatric nursing. The table 7 describes the educational modules and the allocation of time of the specialty.

Table 7. Children's Nursing. Educational Modules and Allocation of Time

Specialty	Educational Modules	Allocation of time
	1. Developments in Pediatric	- Ten months (10) in
	Nursing Care	Pathology / Pediatric
Children's Nursing	2. Assessment and	Department
	documentation of vital signs	- Two months (2) in Surgical
	3. Principles of drug	Department and Surgery
	administration. Fluid and	- One (1) month in Oncology

electrolyte balance in	- Hematology Department
children.	- Two (2) months in the
4. Pediatric pain	Intensive Care Unit (ICU)
management	Children's
5. Nursing assessment and	- One (1) month in a
documentation of disorders	Neonatal Intensive Care Unit
by system	(NICU)
6. Pediatric Emergency	- Two (2) months in the
Department	Emergency Department
7. Peculiarities in newborn	
care	
8. The child in the operating	
room	
9. The child as a critically ill	
patient in the ICU	
10. Special topics in Pediatric	
Nursing	

4.8 Surgical Nursing

The aim and objectives of the Surgical Nursing specialty are the acquisition and understanding by the trainees of theoretical and clinical knowledge in accordance with the modern concepts of combined therapy regarding: nursing and signimeiological assessment of patients with surgical problems. The table 8 describes the educational modules and the allocation time of the specialty.

Table 8. Surgical Nursing. Educational Modules and Allocation of time

Specialty	Educational Modules	Allocation of time
	1.Evidence-based knowledge	• Six (6) months in Surgical
	at the clinical level	and Surgical oncology
Surgical Nursing	2. Principles of biophysics	departments for adults,
	and biochemistry in clinical	• six (6) months in TEP for
	practical evaluation	adults (the three in the

- 3. Preoperative assessment surgical field), and preparation
- 4. Perioperative care -Organization and management operating room
- 5. Trauma, wound and ulcer healing
- 6. Burn disease
- Laboratory: wound suturing, antisepsis, closed method of application of sterile gloves, the role of the instrument provider and the coordinator, placement of surgical instruments, surgical team by type of surgery
- 8. Surgical pathology by system
- 9. The postoperative care of the patient
- 10. Cardiac Surgery Nursing
- 11. Neoplastic disease, surgical oncology nursing
- 12. Chemical Pharmacology of General principles pharmacology
- 13. Basic knowledge of new imaging methods
- 14. Research methodology

- four (4) months in Surgeries,
- two (2) months in ICU and the ICU for adults, part of the specialty (not to exceed two (2) months in total) may be allocated to structures of pain, vascular access, palliative care and molecular gene therapy.

5. Summary and Suggestions

The covid pandemic in the last two years has highlighted the inadequacy of the health system of most countries. Health professionals faced an unknown pathogen with limited knowledge, personal protective equipment and tools to diagnose and treat COVID-19. The challenges and difficulties during the covid pandemic and post-covid addressed the great gap in training and education especially in this category of health professionals. Future challenges may include natural disasters, wars, emerging diseases and health professionals should be ready to face new challenges.

An educational program that could be of great interest and importance is the one with the general title: **«Communicable Diseases».** Educational modules could include:

- 1. Communicable Diseases
- 2. Epidemiology
- 3. Vaccination
- 4. Contact Tracing
- 5. Crisis and Emergency Risk Communication
- 6. Health Professional Self-Care and Mental Health
- 7. Infection Control in Long-Term Health Care Facilities &
- 8. Personal Protective Equipment.

The modes of training and education can include on line and face to face educational programs for nursing assistants. Training can be achieved through simulation of management of pandemic infection outbreaks in the most realistic manner possible to test or evaluate the capability of more than one function in the context of an emergency event. An in-situ simulation is an effective method that is close to real-life scenario, to measure the readiness and effectiveness of an emergency response plan. Hence, it is a useful tool to assess disaster preparedness against any type of outbreak. The table 9 describes educational modules and modes of training and education in communicable diseases.

Given the central role of nursing for the health of all nations, solutions for post-COVID challenges are essential, not optional, for governments, policymakers, managers and leaders of nursing, locally, nationally and internationally.

Table 9. Nursing Assistant in Communicable Diseases. Educational Modules and Modes of training and education

Nursing Assistants	Educational Modules	Modes of training and
		education

	1. Communicable Diseases	On line and face to
	2. Epidemiology	face nursing
	3. Vaccination	programs
Training and Education in	4. Contact Tracing	 Virtual Reality
Communicable Diseases	5. Crisis and Emergency Risk	(VR) — allowing
	Communication	high-fidelity
	6. Health Professional Self-	simulations from
	Care and Mental Health	remote settings.
	7. Infection Control in Long-	
	Term Health Care Facilities	
	8. Personal Protective	
	Equipment	

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- **2.** Official website of the Hellenic Ministry of Health & Social Solidarity. Available at: http://www.moh.gov.gr/, December 2015.
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