Program Specification
(2025)

ProgramTitle (according to what is stated in the bylaw):	MD Program Anesthesia and Algesiology
Total number of credit hours/points of the program:	123
Number of academic years/levels (expected program duration):	3
Department (s) Participating (if any) in teaching the program:	1. Anaesthesia, surgical intensive care and Pain Relief 2. Surgical Oncology 3. Radiation Oncology & Nuclear Medicine 4. Clinical pathology 5. Cancer Epidemiology and Biostaistics
Faculty/Institute:	National Cancer Institute
University/Academy:	Cairo University
Program majors/divisions/tracks/specialties in the final year (if any):	
Partnerships with other parties and the nature of each (if any):	
Name of the program coordinator (attach the assignment decision):	
Program Specification Approval Date:	22/09/2024
Council responsible for Program Specification Approval (Attach the Decision / Minutes):	

2. Program Aims (Brief description of the overall purpose the program)

The aims of the Anaesthesia and Algesiology program are to provide the candidate with:
1. Sound knowledge and practice of general and regional anesthetic techniques for different diseases and surgical specialties.
2. Knowledge and skills of accurate diagnosis, prophylaxis and treatment of critical disorders of different organs or systems.
3. Knowledge and skills to be capable of accurate diagnosis and treatment of different cancer and non-cancer pain syndromes
4. Knowledge and skills of proper management of different systems disorders in terminal ill-cancer patients.

3. Program Structure (Curriculum)

- **Program Components**

Requirement Category/Type		Number of Courses	Number of Credit Hours/Points	Percentage from the total number of hours/points
University Requirements				
Faculty/College Requirements (if applicable)				
Program Requirements		11	123	
Requirements of the majors/ divisions/ tracks/ specializations in the final year (if any)				
Other requirements	Field Training	4	45	36.6%
	Graduation Project		40	32.5%
	Mandatory training year			
	Other (to be mentioned)		13	10.7%
Total Compulsory Courses		11	123	100%
Elective Courses		0	0	0%
Total			123	100%

- **Program courses according to the expected study plan**

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الدكتوراه	فصل دراسي اول	G1	Principles of Surgical Oncology	اجباري	كلية	1	1	0	0
الدكتوراه	فصل دراسي اول	G3	Principles of Radiotherapy	اجباري	كلية	1	1	0	0
الدكتوراه	فصل دراسي اول	G5	Descriptive Statistics	اجباري	كلية	1	1	0	0
الدكتوراه	فصل دراسي اول	G6	Research methods	اجباري	كلية	1	1	0	0
الدكتوراه	فصل دراسي اول	G11	General skills	اجباري	كلية	1	1	0	0
الدكتوراه	فصل دراسي ثاني	G Ana/Alg 701	Applied Basics of Anesthesia	اجباري	تخصص	2	2	0	0
الدكتوراه	فصل دراسي ثاني	G Ana/Alg 702	Applied Basics of pain management	اجباري	تخصص	2	2	0	0
الدكتوراه	عامين	Ana/Alg 703	Advanced Anesthesia	اجباري	تخصص	8	4	4	0

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Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الدكتوراه	عامين	Ana/Alg 704	Surgical Intensive Care	اجباري	تخصص	3	1.5	1.5	0
الدكتوراه	عامين	Ana/Alg 705	Pain Management	اجباري	تخصص	4	2	2	0
الدكتوراه	عامين	Ana/Alg 706	Palliative care	اجباري	تخصص	1	1	0	0

* A separate schedule of elective courses can be added if they are not related to a specific level of study, or according to the nature of the program

4. Academic Standards

- **Adopted Academic Standards (NARS/ARS): ARS**
  * When adopting ARS: <u>The matrix of the academic reference standards (ARS) with the national academic reference standards (NARS) must be attached</u>
- **Date of Adoption of Standards in the governing Council: 9/22/2024**
  * Decision/Minutes of the governing Council to be attached

5. Matrix of Academic Standards (Program Outcomes POs) with Courses

Compulsory Courses (Name and code)	Academic Standards (Mention code only)																																								
	I-1	I-2	I-3	I-4	I-5	I-6	I-7	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-8	III-1	III-2	III-3	III-4	III-5	III-6	III-7	III-8	III-9	III-10	III-11	III-12	III-13	III-14	IV-1	IV-2	IV-3	IV-4	IV-5	IV-6	IV-7	IV-8	IV-9	IV-10	IV-11	IV-12
Principles of Surgical Oncology (G1)	X	X	X		X	X		X		X		X				X		X		X		X								X	X										
Principles of Radiotherapy (G3)	X				X			X	X			X				X	X	X		X	X	X		X			X		X	X	X				X	X		X			X
Descriptive Statistics (G5)	X	X				X	X		X	X	X																														
Research methods (G6)	X	X				X			X			X																													
General skills (G11)		X	X	X	X	X	X	X				X				X	X	X				X			X					X	X	X			X			X	X		
Applied Basics of Anesthesia (G Ana/Alg 701)		X			X	X	X	X					X						X		X								X				X		X						
Applied Basics of pain management (G Ana/Alg 702)		X			X			X				X							X		X								X				X		X						

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Compulsory Courses (Name and code)	Academic Standards (Mention code only)																																								
	I-1	I-2	I-3	I-4	I-5	I-6	I-7	II-1	II-2	II-3	II-4	II-5	II-6	II-7	II-8	III-1	III-2	III-3	III-4	III-5	III-6	III-7	III-8	III-9	III-10	III-11	III-12	III-13	III-14	IV-1	IV-2	IV-3	IV-4	IV-5	IV-6	IV-7	IV-8	IV-9	IV-10	IV-11	IV-12
Advanced Anesthesia (Ana/Alg 703)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Surgical Intensive Care (Ana/Alg 704)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pain Management (Ana/Alg 705)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Palliative care (Ana/Alg 706)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

- Identification is done for each major/division/track/specialty in the final year (if any)
- Attach a separate matrix of elective courses (if any)

6. Teaching and Learning strategies/methods to achieve Program Outcomes:

1. Lectures : Used to deliver core theoretical knowledge and up-to-date evidence-based concepts.

2. Case-Based Learning (CBL): Encourages the application of theoretical knowledge to real clinical scenarios, promoting analytic and problem-solving skills.

3. Clinical Rotations : Allow students to gain hands-on experience in different clinical settings under supervision, enhancing skills in diagnosis, procedures, patient communication, and team collaboration.

4. Self-Directed Learning: Promotes autonomy in seeking updated resources, guidelines, and literature to support continuous professional development.

5. Supervised Research Activities: Students are guided through the stages of developing, conducting, and presenting a research project or thesis, with emphasis on ethical and methodological standards.

6. Logbook-Based Learning: Provides structured documentation of acquired skills and competencies across the duration of the program.

7. Student Assessment strategies/methods to verify and ensure students' acquisition of Program Outcomes:

1. Written Exams: Assess cognitive skills, theoretical understanding, and evidence-based knowledge in anesthesia, pain management, and critical care.
2. Oral Exams: Evaluate critical thinking, clinical reasoning, and the ability to articulate concepts and decisions clearly under questioning.
3. Practical Exams: Measure psychomotor skills and the ability to perform essential procedures in real or simulated clinical settings.
4. Thesis: Assesses the student's ability to conduct scientific research, interpret findings, and contribute to academic and clinical knowledge.
5. Logbook: Continuous assessment of clinical skills, professional behavior, and the fulfillment of training objectives across different rotations.

8. Program Key Performance Indicators (if any)

No.	Performance Indicator	Target Level	Method	Measurement
1.	Graduation Rate	≥ 85%	Tracking student records	% of students graduating within the standard program duration
2.	Thesis Completion Rate	≥ 80%	Follow-up via thesis committee reports	% of students submitting and defending thesis within 5 years
3.	Student Satisfaction Rate	≥ 80% satisfaction	Structured student surveys	Average rating across key areas (teaching, training, supervision)
4.	Skills Acquisition (Logbook Completion Rate)	100%	Logbook review	% of students completing all required practical skills
5.	Research Output per Student	publication/presentation	Thesis evaluation and follow-up	Number of students publishing in peer-reviewed journals
6.	External Academic Review Participation	At least once every 5 years	accredited external reviewer	Documented review and feedback report from external reviewers
7.	Availability of Program Specifications and Course Descriptions	100% available and updated	Review of published documents	% of courses with updated and approved specs and descriptions
8.	Faculty Participation in Quality Assurance Activities	≥ 80%	QA unit records	% of staff involved in QA workshops, meetings, and evaluations
9.	Compliance with Ethical Research Standards	100%	IRB documentation	% of research protocols with IRB approval

Name & Signature
Program Coordinator

Prof.Dr. Emad Gerges

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