

**مقارنة ما يقدمه البرنامج من نتائج تعليمية مستهدفة مع المعايير المرجعية لبرنامج  
الدكتوراة في الجراحة العامة**

**أ – المعرفة والفهم:**

المقررات التي تحقق المعايير الأكاديمية للبرامج	ILOs مخرجات التعلم المستهدفة	(ARS) Benchmark المعايير الأكاديمية	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا (درجة الدكتوراة في الجراحة العامة)
Advanced laparoscopic surgery (sur 620 ALS)	A7	Recent advances in the field of surgery including laparoscopy	1- Recent advances and areas under research in the field of .....
Statistics and research methodology (sur 620 SRM)	A6	Application of basic statistical analyses and research methodology.	2- Scientific research ethics, research methodology & research design. Curriculum must advance knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care.
Statistics and research methodology (sur 620 SRM)	A6	Medicolegal aspects of medical practice	3- Legal aspects in practice of ..... as well as medical ethics.
			4- Principles and basic concepts of quality in professional practise including planning, improvement of performance and control of practising outcomes.
General surgery (sur 620)	A7	Patients' safety in the operative room and in the surgical ward	5- Knowledge related to environmental development, patient safety, safe occupational practise, serving communities and research results in improving public health outcomes.

**ب – القدرات الذهنية :**

المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark	المعايير القومية الأكاديمية القياسية العامة (NARS) لبرامج قطاع الدراسات العليا (درجة الدكتوراه في الجراحة العامة)
General surgery (sur 620)	B3, B4	Interpretation and Integration of the data of investigations and choosing the suitable medications for the patients	6- Medical data analysis, interpretation and proper therapy choice.
General surgery (sur 620)	B6	Management of each condition according to evidence based medicine	7- Medical problem solving and Evidence-based medicine.
General surgery (sur 620)	B7	Undertaking biomedical research studies to find solutions to existing medical problems.	8- Participation in research development and innovation.

General surgery (sur 620)	B7	Critical reading of medical articles using scanning and skimming techniques	9- Scientific paper reviewing.
General surgery (sur 620) Surgical pathology (sur 605)	B5	Assessment of the predisposing factors for surgical diseases	10- Risk assessment in Environmental practice.
General surgery (sur 620)	B10	Critical self-assessment in terms of knowledge and skill acquiring with plans to develop more skills and boost the learning curve with systematic analysis of the practice.	11- Planning for improvement of professional performance in the field of..... Residents are expected to develop skills and habits to be able to meet the following goals. (1) identify strengths, deficiencies, and limits in one's knowledge and expertise; (2) set learning and improvement goals; (3) identify and perform appropriate learning activities; (4) systematically analyze practice using quality improvement methods, and implement changes with the goal of practice improvement; (5) Incorporate formative evaluation feedback into daily practice; (6) locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems; (7) use information technology to optimize learning; and participate in the education of patients, families, students, residents and other health professionals.
General surgery (sur 620)	B11	Application of decision making strategy based on clinical evidence	12- Decision making skill.
			13- Development, innovation and medical breakthrough.
General surgery (sur 620)	B12	Apply the principles of safe surgery in dealing with patients	14- Safety culture of medical practice.

### ج - المهارات العملية:

المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark	(NARS) المعايير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات العليا (درجة الدكتوراه في الجراحة العامة)
General surgery (sur 620)	C5	Respecting the patient, keeping confidentiality, showing respect to other coworkers, conducting the required tasks in	15- Professionalism and up to date practice. Providing patient care that is compassionate, appropriate, & effective for the treatment of health problems and the promotion of health. In this context; Residents must demonstrate a commitment to carrying out professional responsibilities & an adherence to ethical

		timely fashion.	principles. Residents are expected to demonstrate: (1) compassion, integrity, and respect for others; (2) responsiveness to patient needs that supersedes self-interest; (3) respect for patient privacy and autonomy; (4) accountability to patients, society and the profession; and,(5) sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.
General surgery (sur 620)	<b>C6</b>	Ability to formulate medical reports that are clear and honest	16- Medical report writing and evaluation/appropriateness of workers' medical report.
			17- Ability to investigate and evaluate the Health of workers and workplace environment, to appraise and assimilate scientific evidence, and to continuously improve worker 's health based on constant self-evaluation and life-long learning.
General surgery (sur 620)	C3	Using IT and electronic databases in recording the medical information of the patients and patient education	18- Effective use of IT and healthcare information system in medical practise and patient medical records to optimize learning; and participate in the education of patients, families, students, residents and other health professionals
General surgery (sur 620)	<b>C5, B10</b>	Respecting the patient, keeping confidentiality, showing respect to other coworkers, conducting the required tasks in timely fashion.	19- Planning for improvement of professional performance in the field of Occupational and Environmental Medicine. Residents are expected to develop skills and habits to be able to meet the following goals: (1) identify strengths, deficiencies, and limits in one's knowledge and expertise; (2) set learning and improvement goals; (3) identify and perform appropriate learning activities; (4) systematically analyze practice using quality improvement methods, and implement changes with the goal of practice improvement; (5) incorporate formative evaluation feedback into daily practice; (6) locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems; (7) use information technology to optimize learning; and participate in the education of patients, families, students, residents and other health professionals

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General surgery (sur 620)	D2, D3, D4	Communicating with colleagues, patients and others	20- Interpersonal and communication skills that result in the effective exchange of information and collaboration with workers, their families, and other health professionals
General surgery (sur 620)	D7	Self -evaluation and evaluation of others using feedback	21- Teaching and evaluation skills as senior staff.
General surgery (sur 620)	D7	Self -evaluation	22- Self-appraisal and life-long learning.
General surgery (sur 620)	D1	Review the scientific literature on a research topic.	23- Accessibility to specialty-specific and other appropriate reference material in print or electronic format. Electronic medical literature databases with search capabilities.
General surgery (sur 620)	D2	Working in multidisciplinary care team	24- Teamwork/leadership.
General surgery (sur 620)	D8	Organizing morbidity and mortality meetings	25- Time management and meeting organization