

Pharmacy

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Pharmacy	Central lab	HPLC	200uv/v/s	2000	1	
		GC_MS	DSQ II GC/MS	2010	1	تحليل الكروماتوجرافي الغازي _ مطياف الكتلة
		FT-IR	Is10	2000	1	تحليل الطيف بالأشعة تحت الحمراء
		UV	Uv-1603	1992	1	
		GC/MS	DSQ2-FOCUS GC	2009	1	قياس نسبة التلوث وتركيز الملوثات المتطايرة في الهواء والغذاء
		nano drop	nano drop	2017	1	nanodrop
		Freeze dry system	LYPH LOCK 4.5	2000	1	Freeze Drying
		FTIR(A.T.R)	NICOLET IS10	2009	1	يستخدم لقياس جميع انواع العينات (صلبه-سائله) بالأشعة تحت الحمراء
		HPLC الجهاز	AZURA	2016	1	تحليل الملوثات الغذائية وملوثات الماء والهواء ورصد المواد السامة البيئية التي قد تهدد السلامة المهنية أو الصحة كما أو كيفا
		CENTRIFUGE	2-16P	2009	2	الطرد المركزي لترسيب المركبات أو الملوثات المختلفة قبل إجراء التجارب عليها
	Biological lab	Microbiological Safety Cabinat Laminar air flow	Aura 2000- M.A.C4	0	1	جهاز يعمل علي تعقيم المكان و تهيئته لاجتبات البيولوجي و البكتريولوجي
		Inverted microscope	GX	0	1	ميكروسكوب مقلوب كامل لرؤية الخلايا الحية و تصويرها و مزود بكمبيوتر و طابعة الوان
		ICE MAKER	VS-625NS	0	1	لاستخراج الثلج للعمل في الابحاث البيولوجية
		Centrifuge	IEC Centra-4R	0	1	جهاز طرد مركزي لفصل السوائل البيولوجية
		Digital visible spectrometer	V-1600	0	1	جهاز لقياس نسبة الضوء الممتصة و المنبعثة من السوائل الملونة
		ROTARY EVAPORATOR	RE 100-Pro LCD	0	1	تبخير المذيبات العضوية
		BINOCULAR MICROSCOPE	Academic stereo zoom microscope	0	1	ميكروسكوب ابحاث لرؤية الاشياء الدقيقة
		Carbon dioxide cylinder		0	1	للتوصيل بالحضانة لمد الخلايا بالغاز
		ELISA	ELx800	0	1	Measure the optical density of solutions in 96-well microplates
		Shaker	G 33	2009	1	None
		Shaker with incubator	G – 25 R	2009	1	None
		laminar flow	TL2448	2009	1	None
		laminar flow hood	AURA 2000 MAC4	2007	1	None
		co2 incubator	5015-2	2007	1	None
	Real time PCR Machine	Rotor-Gene Q 2plex HRM Platform	2009	1	Gene detection and quantification	
	PCR thermocycler	Thermocycler 2001	2001	1	Gene detection	

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Pharmacy		Western blot machine		2012	1	Protein detection
		Refrigerated Centrifuge	Refrigerated Centrifuge(ACM-4100d)	2008	1	Centrifugation of specimens at cold temperatures
		DNA Gel electrophoresis submarine	SUBHT High throughput Submarine Unit	2009	1	DNA separation
		Protein gel electrophoresis	Electro-pour dual vertical system	2010	1	Protein separation
		Autoclave	Direct industry	2008	1	Sterilization of media
		Hot air sterilizing oven	Laboratory electric oven universal type	2005	1	Sterilization of glass wares
		Shaker incubator	Shel lab mini shaking incubator	2007	1	Incubation of microorganisms
		Incubator	Compact forced air incubator	1970	3	Incubation of microorganisms
		Water bath	Digital display water bath	2003	1	Warming of samples
		Vortex	Whirlimixer brand	1970	1	Liquid mixing
		PCR thermal cycler	TC96K	2016	1	It is used to amplify segments of DNA via the polymerase chain reaction
		Cooling Centrifuge	PRO-RESEARCH.K2015R	2018	2	Centrifugation of samples at consistent range of temperature
		Colorimeter	WPA CO7500 B 80-3000-44	2017	1	Test the concentration of a solution by measuring its absorbance of a specific wavelength of light.
		Microbiological Safety Cabinet Laminar Air flow	Topsafe 1.2	2007	1	Laminar airflow Cabinet
		T-Shaker thermo mixer	EMS-100	2017	1	Eppendorf shaker and incubator
		Laboratory ultra low freezer – 86c professional	CVF 330/86	2011	1	Freezing at -80
		Gel electrophoresis	MSMINI	0	1	Separation of DNA fragments
		Gel documentation system	GELDOC 1.4	0	1	Imaging and documentation of DNA separated within agarose gels
		Microarray spotter	SPA3 XP	2013	1	Microarray slides printing
		Multiplate Microarray hybridization station	MMBS220	2013	1	Microarray reaction
	Microarray Colorimetric scanner	SPW220	2015	1	Microarray slides detection	

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		PCR thermocycler	Thermocycler 2001	2001	1	Gene detection
		Western blot machine		2012	1	Protein detection
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	Prof Shehta Said Research Laboratory (Pharmacology and Toxicology Department)	Step-One Plus RT-PCR System	Step-One Plus Real Time Polymerase Chain Reaction (RT-PCR) System- REF: 4376592	2016	1	Quantitation experiments- Quantitative RT-PCR (One-step or Two-steps)- Singleplex or Multiplex PCR TaqMan gene expression assays- SYBR Green gene expression assays- Genotyping experiments-TaqMan SNP genotyping assay- TaqMan Drug metabolism genotyping assay- Presence/absence experiments- TaqMan gene expression assays
		Physiograph	Thermoregulator: FTE10AD Force transducer: Type 372 Data acquisition (DAQ) device): PowerLab/400	2013	1	An invitro device used for pharmacological assessment of sensitivity of isolated organs towards chemical agents.
		UV-Vis double beam Spectrophotometer	UVD-2950	0	1	Spectrophotometer Model UVD-2950 can be used extensively for qualitative and quantitative analysis in such fields as pharmaceutical inspection, clinical analysis, petro-chemistry laboratories, chemistry and biochemistry laboratories, DNA/RNA analysis as well as in quality control departments.
		Single Beam Spectrophotometer	S-1200	0	1	UNICO 1200 Series are reliable and expandable. UNICO Model 1200 has Absorbance, Transmittance and Concentration modes with automatic zeroing and blanking in a single button push.
		Daihan Multifunction Vortex Mixer Model VM-10	Model VM-10	0	1	Mixing of almost all common tubes- Speed rang 0-3.300 rpm Dimensions (wxdxh) (mm) 162x128x145 Body Aluminum Die-casting with power coating 3-position power Switch Operation Aluminum Die-casting with power coting
		Compact Centrifuge	model Z 206 A	2008	2	centrifugation of epinodorffs only.
		Thermo fisher- lab freezer -80°C	EXF24086V	2015	1	Revco EXF Series Ultra-Low Freezer, 240-Box Capacity, 230V, 50Hz Temperature Range -50°C to -86°C
	NMR unit	Bruker FT-NMR Spectrometer	Ascend 400 MHZ with Avance III HD console	2017	1	Used in quality control and research, for determining the content and purity of a sample as well as its molecular structure.

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Pharmacy	the unit of drug analysis	HPLC	UFLC/ 20LC- Pump	2015	1	Quantitative and Qualitative Analysis- UV & Fluorescence detector
		Capillary Electrophoresis	G7100 CE	2015	1	Stability studies, Quantitative & Qualitative analysis
		UV-visible double beam spectrophotometer	Dynamica HALO DB-20	2015	1	High performance double beam spectrophotometer suitable for analytical applications where a higher level of accuracy
		Lyophilizer (Freeze Dryer)	SIM FD8-8T	2009	1	Lyophilization: executes a water removal process typically used to preserve perishable materials, to extend shelf life or make the material more convenient for transport.
Veterinary	Central Lab Vet	High speed cooling centrifuge	3-16PK	0	1	Separating sample components at temperature range -10 to 40 C
		Semi-automated spectrophotometer	6715	0	1	Detection of concentration of chemicals in samples of blood and tissue
		High speed microcentrifuge	C2015	0	1	Separation of sample components in Eppendorf tubes
		Ultra deep freezing -80 0C	Ilshin Lab	0	1	Samples preservation
		Vertical electrophorises	MF-10WdSys	0	1	Protein fractionation
		Atomic absorption	PG990	0	1	Trace elements assay
		VICAM Series-4EX Fluorometer	Series-4EX	0	1	Mycotoxins determination
		Paraffin dispenser	28151-220	0	1	Tissue processing for histopathology
		Cryostate	Leica-CM1100-1	0	1	tissue processing under freezing for histopathology
		De-ionizer (Water purification system)	NEW HUMAN up 900 (version 1.0)	0	1	Removing ions from water and purification for analytical usage
		Hybridization Oven	UNI THERM 6/12	0	1	Preservation of samples under the exact temperature for the right period to use them in Northern and Southern blots and molecular biology assays
		ELISA	SKU/Item Number: 8.600	0	1	qualitative or quantitative assays for analytics detection
		Trans-Blot SD	Trans-Blot SD Cell	2014	1	Blotting of protein bands from gel to blot paper.
		Slide dryer	TEC2602	0	1	Designed for heat and dry tissue slides; fully microprocessor controlled.

Veterinary

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		Gel dryer	MG-2131	0	1	controls temperature from ambient +5°C to 90°C with a timer from 0 to 9999 minutes to heat gels from the base plate while connected to a vacuum pump to remove the moisture and dry gels homogeneously.
		UV gel documentation system with printer	UVDI-254/312	0	1	Detection of DNA bands in the gel by UV rays
		Horizontal gel electrophoresis	MSMINI	0	1	Cleaver Scientific provides a comprehensive range of multi sub-horizontal systems for all your nucleic acid gel electrophoresis needs.
	معمل الخلايا الجذعية	Laminar flow II		0	1	Tissue culture
		Co2 incubator		0	1	Tissue culture
		Flourescent microscope		0	1	Immunohistochemistry evaluation
		Transjector		0	1	Gene injector
		Microtome		0	1	Tissue processing for histopathology
	قسم الميكروبيولوجيا والفطريات والمناعة	Biohazard safety cabinet class 2	PURI CUBE	0	1	provides the highest level of protection for the environment, product and user
		Horizontal Gel electrophoresis	2720 thermal cycler	0	1	separating mixtures containing DNA and RNA molecules
		Vertical autoclave	PURI STER	0	1	sterilization under working steam pressure upto 15 PSI
		Incubator	2002	0	3	grow and maintain microbiological cultures or cell cultures.
		ThermoCycler	2720 thermal cycler	0	1	For Amplification of Nucleic Acids
	قسم الادويه	Spectrophotometer	Pristest TOUCH	0	1	It is a stand alone system for routine chemistry, enzymes, hormones and drug levels.
	قسم الصحة والامراض المشتركة	Incubator	Memmert	0	1	grow and maintain microbiological cultures or cell cultures.
		HOT AIR OVEN	YCO-010	0	1	use dry heat to sterilize.
	قسم الفيروسات	Laminar flow	JSCB-1200SB	0	1	Biological safety cabinet class 2
		Fluorescent microscope	DIAPLAN	0	1	See how to scan a 96-well plate in 3 fluorescence channels in less than 5 minutes
		Gel electrophoresis	LKB	0	1	In the separation of DNA fragments for DNA fingerprinting,in the molecular biology and biochemistry labs
	قسم الكيمياء الحيوي	Gel electrophoresis	Consort, SCIE PLAS	0	1	
		Thermal cycler	Sprint	0	1	
		UV transilluminator	SYNGENE	0	1	

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Veterinary	معمل التغذية	Visible Spectrophotometer	721G	0	1	
		multi-parameter photometer	HI 83200	0	1	
	قسم الجراحة التخدير والاشعه	PORTABLE X-RAY UNIT	SY-31-100P	0	1	designed for use in confined spaces as well as in the field, making it ideal for modern veterinarians. In combination with a portable Amadeo P-AX generator you have a superb solution for mobile X-ray imaging, especially for horse doctors and mixed veterinary practices.
		Digital ultrasonic diagnostic imaging system	DP-2200 VET	0	1	It provides superb value and quality across the entire range of applications with enhanced support of PW imaging to meet the higher diagnostic requirements
	الباطنه والامراض المعدية والاسماك	THERMAL CYCLER	PIKO24	0	1	used to amplify DNA and RNA samples by the polymerase chain reaction. The thermocycler raises and lowers the temperature of the samples in a holding block in discrete, pre-programmed steps, allowing for denaturation and reannealing of samples with various reagents
		Dry block heaters	DB-006			used to uniformly and simultaneously heat or cool an entire block of test tubes or reaction vials.
		Autoclave	MC-DP	0	1	carries out that exact function of sterilizing materials. It is a machine that uses pressure and steam to reach and maintain a temperature that is too high for any microorganisms or their spores to live.
		Incubator	BD-23	0	1	designed for long-term and stable continuous operation. Ideal for gentle incubation of organisms, such as on agar plates, and also for conditioning of heat sensitive media.
		microspin12	BIOSAN	0	1	used for extracting RNA/DNA samples, sedimentation of biological components, biochemical and chemical analysis of microsamples
	uv safety cabinet	BIOSAN	0	1	The primary purpose of a BSC is to serve as a means to protect the laboratory worker and the surrounding environment from pathogens. All exhaust air is HEPA-filtered as it exits the biosafety cabinet, removing harmful bacteria and viruses.	

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Veterinary	قسم الرقابه الصحيه على الاغذيه	Incubator	JSGI-100T	0	1	device used to grow and maintain microbiological cultures or cell cultures. The incubator maintains optimal temperature, humidity and other conditions such as the CO (CO ₂) and oxygen content of the atmosphere inside.
		Lactoscan mccw milk analyzer	EN ISO 9001	2008	1	calibrated for measuring buffalo, whey, skimmed milk (0.01% FAT), concentrated milk (up to 1160 kg/m ³), recovered
		Lactoscan scc	EN ISO 9001	2008	1	is designed to be used only for analysis of milk in milk collecting centers, laboratories, etc. It is not manufactured for testing human milk or animal but with therapeutic or diagnostic usage
		Autoclave	JSGI-100T	0	1	used to sterilize surgical equipment, laboratory instruments, pharmaceutical items, and other materials. It can sterilize solids, liquids, hollows, and instruments of various shapes and sizes.
	قسم الأسماك	horizontal gel electrophoresis	2720 thermal cycler	0	1	designed to run agarose or polyacrylamide gels submerged in running buffer. Samples are introduced to an electric field and will migrate to the anode or cathode depending on their intrinsic charge
		Thermal cycler	prime3	0	1	
		microscope	B-293	0	1	producing brilliant images for the examination of living cells, organisms and several other specimens in large flasks, combining brightfield, darkfield and phase contrast techniques for the most demanding users.
		cooling centrifuge	Hermlez216	0	1	works on the concept of sedimentation principle by holding up the sample tubes with a capacity of 2ml, 10ml and 50ml in rotation around a fixed axis. ... It additionally provides the cooling mechanism to maintain the uniform temperature throughout the operation of the sample
	Biohazard safety cabinet class 2	PURI CUBE			protects the user and lab environment from the biohazard factor and prevents cross contamination of various samples used in experiments. 70% recirculated air is filtered with the HEPA filter, ensuring product safety is assured.	

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Veterinary		ph meter	yk-2001ph	0	1	pH 7 is considered neutral, with lower pH values being acidic and higher values being alkaline or caustic. pH is the most common of all analytical measurements in industrial processing and since it is a direct measure of acid content [H+], it clearly plays an important role in food processing.
	التوليد والتناسل والتلقيح الاصطناعي	Spectrophotometer	1510	0	1	method to measure how much a chemical substance absorbs light by measuring the intensity of light as a beam of light passes through sample solution
		color doppler ultrasonography	8100	0	1	It uses ultrasonic sound waves in the frequency range of 1.5–15 megahertz (MHz) to create images of body structures based on the pattern of echoes reflected from the tissues and organs being imaged.
		zoom stereo microscope	KL 1500 Compact	0	1	designed for low magnification observation of a sample, typically using light reflected from the surface of an object rather than transmitted through it.
		Water Bath	WB-10D	0	1	a device used in the laboratories to incubate samples in water maintained at a constant temperature. Temperature may be controlled digitally or by a dial and once set, the water bath cycles on and off to ensure constancy of the temperature.
Education	معمل الكيمياء	مذيب المحاليل المغناطيسي	sp200	2002	1	اذابة المحاليل بالتأثير المغناطيسي
		مجسات متنوعة	topic	2004	15	قياس الرطوبة والحرارة والضوء والمغناطيسية والتعكر والقوة والحركة الحمضية والقلوية الضغط المطلق محلل الأطياف التدفق الحراري الرطوبة المغناطيسية التحلل
		مسعر لتجربة جول الكهربائية	topic	2005	3	تعيين المكافئ الميكانيكي الحراري
		مذيب المحاليل المغناطيسي	topic	2005	2	حساب حجم المذيب المستخدم في تحضير المحلول المغناطيسي
	معمل تكنولوجيا التعليم	السيورة الذكية	smart board	2005	1	تستخدم في التعلم الإلكتروني والتعاوني والتشاركي
	معمل الجغرافيا	جهاز استريوسكوب جيب	topcon	2004	1	يستخدم في قراءة الصور الجوية المتداخلة
		جهاز استريوسكوب ذات المرايا	topcon	2005	1	يستخدم لتجسيم الصور الجوية
		ترمومتر متعدد الأغراض	caution	2002	2	لقياس درجات الحرارة العظمي والصغري
	جهاز تسجيل سطوع الشمس	Campdell Stokes	2003	1	يستخدم في تسجيل مدة سطوع الشمس	
	ميزان القامة	topcon	2005	2	يستخدم لقراءة القامة متر لتحديد ارتفاعات النقط عن سطح البحر	
	جهاز GPS	Japan	2014	1	يستخدم لتحديد المواقع علي سطح الأرض ويمكن ان يحدد مكان أي شخص أو موقع عن طريق تقاطع خط الطول والعرض علي الشخص أو الموقع	
	جهاز تيودليت بصري	topic	2002	1	يستخدم في مسح الأرض وقياس الزوايا في الصغيره في الفضاء	

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Education		ميزان هندسي بال	topic	2002	2	معالجة القامات لتعيين قراءة القامة
		دوارة رياح	topic	2002	1	قياس سرعة الرياح
		دوارة رياح	topic	2002	1	يستخدم في العرض
		جهاز ريكورد	topic	2002	1	التقاط صوتا واضحا منمسجلا الصوت
		بوصلة	topic	2002	1	تحديد الاتجاهات بالنسبة إلي قطبي الأرض
		جهاز ابن ليفل	topic	2003	2	قياس الارتفاع والانحدار
		جهاز بلاميتير	topic	2003	1	قياس التيار الكهربى
		عجلة قياس المسافة علي الخريطة	topic	2003	1	قياس المسافات علي الخرائط
	معمل الفيزياء	ميكروسكوب ضوئي	Topcon	2000	2	يستخدم الضوء المرئي ونظام العدسات لتكبير الصور من عينات صغيرة
		مجسات التدفق والضغط و الحرارة (مجري الأنهار)	topic	2006	7	قياس الضغط والحرارة والحركة الزائدة الإشعاع تحليل الأطياف قياس الحرارة من نوع K قياس التيار والفولت
		جهاز قياس الذبذبات	CRO	2002	1	يستخدم في رسم جهد الإشارة بشكل مخطط ثنائي الأبعاد للجهد الكهربى (علي المحور العمودي) مقابل الزمن (علي المحور الأفقي)
		مجس الرطوبة	topic	2000	1	يستخدم في قياس محتوى الرطوبة في بيئة رطبه أو هوائية
		مجس الضوء	light sensor	2000	1	هو مكشاف حساس للضوء أو الإشعاع الكهرومغناطيسى يستخدم في المجسات الضوئية المختلفة
	مذيب المحاليل المغناطيسى	topic	2005	2	حساب حجم المذيب المستخدم في تحضير المحلول المغناطيسى	
Medicine	Children Hospital Main Lab	Cobas e 411	Roche	0	1	Chemiluminescence for viral and hormonal assays
		Microscan Walk Away		0	1	Antibiotic microbial sensitivity
		Bactec 9050		0	1	Blood culture
		Bact/Alert 3D		0	1	Blood and TB culture
		RT PCR	Rotor - Gene Q	0	1	Quantitative determination of any RNA or DNA organism
		Ultracentrifuge	Rc-M120 GX	0	1	TO centrifuge blood at high speed up to 120000 RPM
	Clinical chemistry of clinical pathology	Hitachi	902	2009	1	Automated chemistry analyzer
		Elecsys 2010	2010	2008	1	Automated analyzer for hormones &tumour markers
		Cobas E411	E411	2015	1	Endocrine and tumour markers,serology automated analyzer
		Cobas C311	C311	2015	1	Automated chemistry analyzer
		Immulite automated analyzer	Immulite I	2000	1	Hormones,tumour markers, serology,drugs analyzer
		Protein electrophoresis insturement	Helena	2005	1	Protein electrophoresis
	Ultracentrifuge	Beckman	2004	1	Lipid ultrcentrifugation	

Medicine

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		Thermacycler-Biometra	T Personal thermacycler	2010	1	PCR for DNA,RNA amplification
		Statefax ELISA reader	Statfax 303	2005	1	ELISA assay for hormones,tumour markers,serology
		Teco ELISA READER	TECO	2012	1	
		PH meter	PH 210-Bench	2012	1	PH measurement
		AVL Electrolyte analyzer	AVL 9180	2010	1	ELECTROLYTE Na,K,Cl measurements
		COBAS -221	221	2014	1	Blood gases & electrolytes
		Rapid Lab for blood gases	RL 348	2013	1	Blood gases & electrolytes
		Rapid lab 500	RL 500	2014	1	BLOOD GASES &ELECTROLYTES
Clinical Microbiology Lab		TECHNE Thermal cycler	Genius FGENO2TD	0	1	Nucleic acid amplification
		Concept plus Anaerobic work station	plus	0	1	Creation of anaerobic condition for isolation of anaerobic organisms
		Leica Flouresent microscope		0	1	Examination of flourescently stained smears
		Co2 unitherm 50 incubator	Tc2123-2E	0	1	Creation of incubation condition with Co2
		Gel electrophoresis system	SCIE plas	0	1	Electrophretic separation of DNA
		UV Transilluminator	JENCONS	0	1	
Clinical Immunology unit-clinical pathology department		Floresent microscope		0	2	Dirct and indirect immunoflorecent techniques
		Flowcytometer	BD accuri	2012	1	Cell identification in liquid phase
		Thermal Cycler		0	3	amplify segments of DNA via the polymerase chain reaction (PCR) process
		Automated ELISA and Immunoflorencence blotter	MAGO 4	0	1	For protein any protein assay in liquid phase
		Real time PCR		0	1	Amplification and detection of nucleic acid
		Cooling Centrifuge (3 Rotors)		0	1	A device in which solid or liquid particles of different densities are separated by rotating them in a tube in a horizontal circle

Medicine

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Medicine		ELISA Reader		0	1	used mainly in immunology to detect the presence of an antibody or an antigen in a sample
		Nephelometer	Turbox	0	1	Measure protein by nephelometry
		Elisa washer		0	1	used to remove reagents from sample wells on microplates, and to prepare them for the next step in an assay or procedure
		Laminar Airflow (class I)		0	1	provide the ideal particle-free, bacteria-free, clean-air environment needed for lab procedures
		Electrophoresis SYSTEM		0	2	motion of dispersed particles relative to a fluid under the influence of a spatially uniform electric field.
		Immunocap		0	1	Detection of specific Ig E for allergy
		UV Sterilization Cabinet		0	2	Sterilization of utensils -Make sterile area for DNA & RNA preparation
		Liquid nitrogen vessel		0	1	cryopreservation of blood, reproductive cells (sperm and egg), stem cells, and other biological samples
		Centrifuge		0	3	A device in which solid or liquid particles of different densities are separated
		Vortex Mixer		0	1	Provides smooth instant vortexing of even the largest sample sizes
		Immuno electrophoresis system		0	1	Immunochemistry techniques
		light Trinocular Microscope		0	4	see objects that are too small for the naked eye
		Oven		0	1	Disinfection
		Shaking water bath		0	1	Water bath for pathological slides- temp. reach to 100c°.
		Microwave		0	1	Gel preparation
		Nucleic acid spectrophotometer		0	1	Measure DNA, RNA concentration check purity
		Inverted microscope		0	1	observing living cells or organisms at the bottom of large containers
		Water bath		0	1	
		Co2 Incubator		0	1	Used in incubation of cultured cells.
		incubator		0	1	
	Freezer -80		0	2		
	Clinical Toxicology Lab	High Performance Liquid Chromatography "HPLC"	HPLC 1260	2011	1	Quantitative and qualitative measurement of different drugs and toxin levels determination of amino acids determination of antibiotic residues- no maintenance contract exists the HPLC needs periodic maintenance

Medicine

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions	
Medicine		Autoanalyzer	MGC-240-Analyzer	2011	1	1. Preliminary screening of drugs of abuse (DAT) e.g. morphine, tramadol, cannabis and alcohol. 2. Measuring levels of Therapeutic drugs e.g. Digoxin, theophylline, acetaminophen, salicylates and antiepileptic drugs.	
		Refrigerator	SECOP-NL11MF	2011	1	Keeping samples and chemichals	
		Deep Freeze	SECOP-TLES5.7FT.3	2011	1	Keeping samples and chemichals	
		Centrifuge	Unican & Sigma 2-15-15D-Herolab	2002	2	Separation of content of samples	
		Centrifuge	Unicen-15D-Herolab	0	1	Sample centrifugation	
		Incubator	Shell-Lab-1500 E	0	1		
		pH meter	YK-2001PH	0	1		
		Shaker	Thermolyne M65820-33	0	1		
		Thermohygrometer	N.HYT-15.1	0	1	Temperature and moisture measurement	
		Ultrasonic	SONOMATIC 60375	0	1		
		Vacuum Pressure Pump	AP-01P	2007	1		
		Vortex	Shelton VSM-3	0	1		
		Water distillator system	DESA-0041	0	1	Water distillation	
		Clinical Pharmacology Research lab.	UV/Vis Spectrophotometer	Jenway 6405	0	1	
			ELISA Plate reader	Metertech sigma 690	0	1	
			Automatic titrator	Titroline 96	0	1	
			CO2 Incubator	Revco Habitat	0	1	
			Muti-label counter	Hidex Triathler	0	1	
			Muti-label counter	Hidex Triathler	0	1	
		Mansoura Gastro-entriology center lab	Cobas Integra 400 plus	400 plus	2013	1	Clinical and immunochemistry tests
			architct	I 1000 sr	0	1	Hormones, virological markers ,tumor markers and drugs
			Trima accel	1T02307	0	1	Automatic apharesis
			Applied biosystem step one		0	1	RT-PCR
			Diamed cd-c	cd-x haemostasis	0	1	Blodd coagulation profile
			Grifolis DG spin		2008	1	Digital centrifuge for manual processing of blood group and blood compatibility cards
			Sorvall rc 12bp +		2013	1	Perform high throughout blood banking and bioprocessing application
		Cobas taqman 48	48	0	1	RT-PCR	

Medicine

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Medicine	Histology and Cell Biology research lab	Cryostat	MEV	0	1	Preparing and sectioning of frozen specimens for histological examination.
		Paraffin dispenser	1120	0	1	Embedding samples in paraffin to form paraffin blocks.
		Microtome		0	2025	Sectioning paraffin blocks to produce thin sections
		Knife maker	7800	0	1	Perparing knives for ultrathin sectioning.
		Ultratome	2208	0	1	Preparing ultrathin sections for electron microscopic studies
		Imaging microscope	Cx31	0	2	Taking pictures of sections seen under the microscope
	Liver lab - Medical Biochemistry Department	DNA - RNA Extractor	L6	0	1	Automatic extraction of DNA and RNA
		Real time PCR	7500	0	1	
		Thermal cycler (PCR)	Tc-312	0	1	
		Gel documentation system	Bio doc analyze digital	0	1	
		UV Transilluminator	TUV-20	0	1	
		Electrophoresis	S-Va RI-GEL	0	3	
		HPLC	LC1110	0	1	
		CASA	WV- CP300/G	0	1	
		ELISA Reader	Human reader single 315	0	1	
		ELISA Reader	Magellan clinical v 4.5	0	1	
		Autoimmuno assay	360	0	1	
		Automatic chemistry analyzer	20 X Ti	0	1	
		Spechol II Spectrophotometer	10015	0	1	
		Emperor Spectrophotometer	EMP 168	0	1	
		Jenway Spectrophotometer	Genova	0	1	
		Jenway Spectrophotometer	6 400	0	1	
		Jenway Spectrophotometer	6 105	0	1	
	Medical Experimental Research Center	NanoDrop	2000	0	1	Measures DNA, RNA (A260) and Protein (A280) concentrations and sample purity (260/280 ratio)

Medicine

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
		Thermal Cycler	GS 482	0	1	amplify segments of DNA via the polymerase chain reaction (PCR) process
		Spectrophotometer	Slim +/-Jenway / Mindray BA-88A	0	3	measure the intensity as a function of the light source wavelength . Measure chemicals, enzymes, electrolytes
		Dry bath Incubator	K3 series	0	1	used in a variety of applications, which include: restriction digestion, BUN, melting agar, coagulation studies, hybridisation, Hot Start PCR® reactions and DNA denaturation
		Cooling Centrifuge (3 Rotors)	k3	0	1	A device in which solid or liquid particles of different densities are separated by rotating them in a tube in a horizontal circle
		ELIZA Reader	serial no.1271	0	1	used mainly in immunology to detect the presence of an antibody or an antigen in a sample
		ELIZA Shaker&Incubator	0	0	1	used for any 96 well microplate-based assay requiring optimal incubation conditions up to 40° C.
		ELIZA Washer	0	0	1	used to remove reagents from sample wells on microplates, and to prepare them for the next step in an assay or procedure
		Laminar Airflow (class I)	nu-201-300E	2011	2	provides a HEPA filtered clean work area for laboratory appliances, microscopes, pipetting, compounding sterile drug preparations or IV admixture, or any applications requiring a clean air environment.- Does not provide any protection to personnel or environment.
		Electrophoresis SYSTEM	0	0	1	Used in Electrophoresis technique by the motion of dispersed particles relative to a fluid under the influence of a spatially uniform electric field.
		Homogenizer	HS-30E	0	1	Homogenization of various types of materials
		UV Sterilization Cabinet	csl-uvcab	0	1	Make sterile area for DNA & RNA preparation
		Liquid nitrogen vessel	Liquid nitrogen vessel	0	1	cryopreservation of blood, reproductive cells (sperm and egg), stem cells,and other biological samples
		Centrifuge	k2015	2011	1	A device in which solid or liquid particles of different densities are separated
		Vortex Mixer	VM-300	0	1	Provides smooth instant vortexing of even the largest sample sizes
		Rotary Microtome	CUT 4050	0	1	cutting 0.5-60 micron ability with retraction technique, counter, Autotrim, installing fixed & disposable blade holder.

Medicine

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
		High Research Trinocular Microscope		0	1	see objects that are too small for the naked eye
		Paraffin wax dispenser		0	1	Paraffin blocks freezing
		Laminar Airflow (class II)	NU 425-600E	1997	1	Primarily designed to protect against exposure to particulates and aerosols from biological agents.- Provides product, personnel and environmental protection.
		Inverted microscope –connected with two camera & laptop	1X70-s8f2	0	1	observing living cells or organisms at the bottom of large containers- connected with camera
		Light microscope	Cx21fs2	0	1	used to see objects that are too small for the naked eye
		Co2 Incubator	c 150 E2	2016	2	provide optimum, reproducible growth conditions for cell cultures
		PH Meter	HT211 Microprocessor	0	1	measuring the pH (acidity or alkalinity) of a liquid-malfunction
		Shaking water bath	BS-11	0	1	maintain a very stable temperature with shaking
		Filtration system	Mini MAC	0	1	cells purification by labeling cells with magnetic beads
		Tissue processor		0	1	Processing of tissues
		Water purification system	NHM1150706	0	1	Provides ultra purified water for chemical and biological researches with: •Auto calibration for water sensors •Auto regular recycling every hour •Standby function : Auto recycling lower than setting value. •Programmable by 2 steps for the filter exchanges to maintain water quality.
		Digital Balance	serial no. 107782	0	1	Balance which shows the weight of a substance digitally and is used to weigh chemicals in labs weighs a substance to the level of almost 0.0001 gm accuracy.
		Deep Freezer (-80)	LDF-9010U	0	1	Used to preserve Nucleic acid samples like RNA and DNA of micro organism and blood product storage, and other applications in the field of research, development, production and quality control.
		Deep Freezer (-20)	MDF-U333	0	1	Used to preserve plasma, vaccines, micro organism and blood product storage, and other applications in the field of research, development, production and quality control.
Oncology center		Therma cycler	310 (432742)	0	1	PCR
		genetic analyser		0	1	Fragment analysis and sequencing
		Real time	Step one	0	1	Rt PCR
		Floarecent imiging microscope	Px61	0	1	FISH and Karyotyping

Medicine

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Medicine		centaur	Advia	0	1	Hormons and tumor markers
		Canto II flowcytometer	BD FACS canto tm II	0	1	Cell identification by CD screen
		Epics XL coulter flowcytometer	EPICS XL	0	1	Immunophenotyping techniques
		Hellabioelectrophoresis	DM-2A	0	1	Protein electrophoresis and immunofixation
		Co2 incubator	056AL	0	1	Cell culture
		Laminar airflow	Bioactive 90 plus	0	1	In PCR and tissue culture preparation
		Colling centerfuge	17 TR	0	2	Fluid centrifugation with cooling
	Gastro-entrolgy surgery centre Lab	Arhitect	1100 SR	2012	1	Tumor markers AND VIROLOGY
		Hitachi Cobas 311	C 311	2015	1	Chemical analysis
		Sysmex	Xp 300	2013	1	Hematology (CBC)
		real time PCR	Step one	2012	1	for PCR analysis
	molecular biology lab medical biochemsitry departement	pH meter	C16	1980	1	p.H measurement
		vertical electrophoresis	SE 260-10A-75	2000	1	separation of proteins and DNA
		automated enzyme immunoassay TOSOH	AIA-360	2014	1	measurement of hormone levels
		PCR theraml cycler	2720	2014	1	Restriction fragment length polymorphism and study of gene expression
		PCR theraml cycler	FTc3102D	2010	1	Restriction fragment length polymorphism and study of gene expression
		Tissue tearor	485370	1985	1	tissue homogenization
		water bath	3193	1980	1	incubate samples in water at a constant temperature over a long period of time.
		U.V transilluminator	TUV-20	1980	1	visualization of DNA samples after separation by gel electrophoresis
		p.H meter	440	1984	1	p.H measurement
		PCR theraml cycler	PTC-150	1984	1	study of gene expression- Not working
		U.V transilluminator	lms-20E	1984	1	visualization of DNA samples after separation by gel electrophoresis
		electrophoresis power supply	consort-E865	1984	1	power supply for electrophoresis system
	horizontal electrophoresis	HE 33	1984	1	separation of proteins and DNA samples	

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Medicine		vertical double gel electrophoresis	45-1010-i	2004	1	separation of proteins and DNA samples
		cleaver LFD electrophoresis	VS10	2004	1	separation of proteins and DNA samples
		gel dryer	SD10	2010	1	preparation of gel for electrophoresis
		sensitive balance	EL-2005	2005	1	preparation of gel for electrophoresis
		sensitive balance	EL-2005	2005	1	determine the weight of chemical compounds
	Medical Microbiology and Immunology Department Lab	Programmable Thermal Controller	PTC-100	2007	1	Polymerase Chain Reaction Thermal Cyler
		Vertical Laminar Flow Hood	MaXtream V12	2011	1	Cell culture passage and viral isolation
		UV transilluminator	M-15E	2003	1	Visualization of PCR products after gel electrophoresis
		Cooling Micro-centrifuge	Zentrifugen	1998	1	Centrifugation during DNA and RNA extraction steps.
		Elisa Plate Analyzer	ReadWell Touch	2011	1	Elisa Plate Reader
		Inverted Microscope	Labovert	1986	1	Examination of cell culture and CPE of cultured viruses.
		Dc power supply	PS3000	1995	1	DC Power supply for gel electrophoresis.
		Immunoflourescence Microscope	Standared 20	2005	1	Examination of florescence stained films for virus examination and auto-antibody detection
	Center of Excellence for Genome and Cancer Research	stem cell seprator	MACS miltenyl biotec	0	1	seprate stem cells
		Inverted microscope	DM IL LED FLUO	0	1	examining cell culture
	CO2 incubator	NU-4750E	0	2	suitable environment for cell culture	
Agriculture	Electron Microsopy Unit	Transmission electron micrcscope	JEM-2100	0	1	Used to investigate the ultrastructure of biological cells as well as non-biological materials and nano particles
		Scanning electron microscope	JSM-6510LV	0	1	Used to examine biological and material samples topography and composition
		Zeta analyzer	Nano- ZS90	0	1	Determine the average size of particles in different solutions as well as determining zeta potential
		Ultramicrotome	PT-XL powertome	0	1	For preparing ultrathin sections to be examined using TEM
		Critical point dryer	Autosamdri-815	0	1	For critical dehydration of biological samples without shrinkage to be examined using SEM

Agriculture

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Agriculture		Sputter coating evaporator	SPI-module-sputter coater	0	1	For coating specimens with a conductive material as carbon or gold in order to be examined using SEM
		Glass knife maker	GKM	0	1	For making glass knives to be used for the ultramicrotome
	Food Safety and Microbial Physiology	Real-time PCR	StepOne	2012	1	Detection of genetic sequences to characterize different cells, quantitative assessment of gene expression, and detection of different genotypes
		Multiple Temperature Zones PCR Thermal Cycler	9902	2013	1	DNA amplification and defining the optimal temperatures for the annealing step in PCR reactions
		End Point PCR	Primus 25 Advanced	2007	1	PCR reactions for DNA amplification
		Gel Documentation System	BioDocAnalyze	2010	1	Capture and analysis of electrophoresis gels of nucleic acids and proteins
		Fluorescence Microscope	BX43	2012	1	screening, picturing, and analyzing fluorescence cells and tissues
		Light Microscope	B3	2007	1	Microscopic examinations of biological samples
		Gel Electrophoresis for Nucleic Acids	PS301 for the power supply unit	2005	1	Separation and detection of nucleic acids
		Spectrophotometer	6305	2000	1	Assessment of Light Absorption by Different Samples
		Dry Bath	TCDB-01	2010	1	Dry Heating of Samples
		(-86) Degree Deep Freezer	ULUF125	2014	1	Preservation of Biological Samples and Microbial Strains
		PCR	MULTIGENIC GRADIENT	0	1	amplify and simultaneously detect or quantify a targeted DNA molecule & quantitative measurements of gene transcription
		Real time PCR	RG-6000	0	1	quantitative measurements of gene transcription at real time
		Growth chamber	KK350TOP+	0	1	يستخدم في تنمية النباتات وكذلك المزارع الميكروبية في ظروف متحكم فيها (حرارة ورطوبة وإضاءة)
		ULTRA DEEPFREEZER (-85C)	K60PL	0	1	Preservation of samples which need very low temperatures (-85c)
		(-20)C Deep Freezer	MUFF21VLMS	0	1	Preservation of samples which need low temperatures (-20C)
		REFRIGERATOR	White Whale	0	1	حفظ المزارع الميكروبية والعينات النباتية والبذور
		UV/Vis SPECTROPHOTOMETER	T80	0	1	يستخدم في التقدير اللوني للصبغات النباتية والمركبات ذات الأطياف

Agriculture

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Agriculture		AUTOCLAVE	SX-700	0	1	Sterilization
		AUTOCLAVE	LDZX-40SC	0	1	يستخدم في اعدام المزارع الملوثة أو بعد الانتهاء من أخذ اقياسات المطلوبة منها وكذلك العينات الغير صالحة للاستخدام
		MICROPLATE READER (ELIZA Reader)	STATE FAX2100	0	1	Used in immune &virus assay in plants
		MICROPLATE WASHER (ELIZA Washer)	STATE FAX 2600	0	1	يستخدم في غسيل الميكوبليت بعد استخدامها
		LAMINAR FLOW	AURA HZ 48	0	2	can maintain a working area devoid of contaminants
		INCUBATOR	BD-115	0	1	Grow and maintain microbiological cultures
		COOLING INCUBATOR	STS+	0	1	Grow and maintain microbiological cultures under cooling
		OVEN	ED-115	0	1	Sterilization & DRYING samples
		pH/Mv&tempreture meter	AD1030	0	1	PH/Mv&tempreture mesurment
		REFRIGRATED CENTRIFUGE	1-14K	0	1	Laboratory separations under cooling
		WATER DEIONIZATION SYSTEM	NEW HUMAN POWER 1	0	1	Deionization of water
		WATER DISTILLATION SYSTEM	DESA 0040	0	1	DISTILLATION OF WATER
		STEREO-MICROSCOPE WITH CAMERA SYSTEM	OLYMPUS SZ61	0	1	فحص السطح الخارجي للعينات النباتية المصابة أو المزارع الفطرية للمساعدة في تشخيص المرض أو تعريف الفطريات مع أخذ صور لها
		MICROSCOPE WITH CAMERA SYSTEM	OLYMPUS CX41 RF	0	1	Samples assay with taking photo
		HPLC	SHOMADZU	0	1	Used for separation of the components in a mixture
	Soil Fertily and Fertilizer Control	CNS analyzer	Flash 2000	2014	1	Analysis of carbon, nitrogen and sulfur.
		Atomic absorption	PG Company	2008	1	Analysis of Micronutrients and heavy metals.
		Flame Photometer	PFP 7 Flame	2010	1	Determination of metal ions including sodium, potassium, lithium, and calcium.
	Mill	MF 10 B	2014	1	Sample Grinding	

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Engineering	Highway and Airport Engineering Lab	Universal Testing Machine	UTM-25	2014	1	Dynamic Testing of Pavement Materials
		Brookfield	DV III Ultra	0	1	Viscosity Mesaurment of Bitumen
	Sanitary Engineering Lab	Atomic Absorption Measurments	AA240FS	0	1	Measurment some of metals for example (Mn, Ca, Mg, Hg, Ni, Cd, As, Al, Cu, B, Cr, Bi, Sn, Sb, Te...)
		Total Organic Carbon&Total Nitrogen Analyzer	HT1300	0	1	HT1300 Measurment of carbon and nitrogen for liquids and solids
		Ionic Chromatography System (ICS)	ICS-1000FS	0	1	Measurment (Bromide, Fluoride, Chloride, Nitrate, Phosphate, Sulfate, Carbonate)
		HPLC		0	1	Biological Analysis
	Soil Mechanics and Foundation	Static and Cyclic Triaxial Testing System(APC)	Wille APC System	2013	1	Soil and Rock testing
		Automatic Consolidimeter	HM-2470A.3F	2010	1	Consolidation Test
		Geotechnical Centrifuge	Geotechnical Modeling Centrifuges – C67 Series	2004	1	Geotechnical Centrfuge testing
	Mansoura U. Nanotech Center	Atomic Force Microscope AFM	Flex AFM C3000	0	1	Characterization tools
		Reflection Microscope	3B Scientific Magnification 1600X	0	1	Characterization tools
		Probe Station	CM210	0	1	Characterization tools
		Precisiion LCR meter	E4980A	0	1	Characterization tools
		UV - Visible spectrometer		0	1	Characterization tools
		ميكروسكوب عاكس	3B Scientific Magnification 1600X	2019	1	
		Probe Station	CM210	2019	1	
		Storage oscilloscope		2019	1	
		Tubular Fumace		2019	1	
		Rotary Evaporatot		2019	1	
		Water Purifier	Barnstead Smart2Pure 50129688	2019	1	
		Fume hood(Materials lab)		2019	1	
		Sonicator		2019	1	
	Spin Coater		2019	1		

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Engineering		Fume hood(Devices lab)		2019	1	
		Vacuum oven		2019	1	
		Vacuume Pump		2019	1	
	معمل الاختبارات الميكانيكية للمواد	جهاز الصدم		2019	1	
		جهاز قياس التآكل والاحتكاك		2019	1	
	معمل القياسات الدقيقة	جهاز قياس خشونة السطح		2019	1	
		جهاز قياس الاستدارة للاسطح		2019	1	
	معمل التشغيل الغير تقليدي	ماكينة القطع بالسلك عن طريق التفريغ الكهربى		2019	1	
	معمل الالات المبرمجة	فريزه افقية ذات ثلاث محاور cnc		2019	1	
	معمل الرى والهيدروليكا	حوض توليد الامواج		2019	1	
		قناه معمليه من الصاج المجلفن		2019	1	
		جهاز قياس سرعة السريان		2019	1	
		pressure transduces		2019	1	
		جهاز قياس سرعة المياه فى ثلاثة اتجاهات		2008	1	
		قناه معمليه (حوض أمواج)		2019	1	
		جهاز قياس الامواج وحساب الضغوط على الارصفة البحريه		2016	1	
		قناه مكتشفه مصنوعه من الخشب السويد ومبطنه من الصاج المجلفن		2008	1	
	معمل الشبكات	cisco switch		2019	1	
		pall server		2019	1	
		حاسب آلى dell exsou		2019	1	
	smart board		2019	1		
	3 com basecine switch 2024		2019	1		
	core biulder		2019	1		
Nursing	Pediatric Nursing lab	Sim baby cpriharap		0	1	
		Infant indetring relaty		0	1	
		Keriptany care doll		0	1	
		Neonatal resast atars		0	1	

Nursing

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Nursing		Pediatric care sim		0	1	
	معامل النساء	novelle birthing delivery simulator	Noelle s.575	0	1	
		ماتريكان يوضح امكانيه الولادات كهربائيا	Noelle s.560	0	1	
		Pregnancy simulator		0	1	
		Episiotomy care		0	3	
		Gynecological model study		0	1	
		Femal catherterization		0	2	
		نموذج طفل حديث الولادة بالمفاصل		0	4	
		enema adminstration simulator	2018	0	2	
		ماتريكان العناية بلكلوستومي	1070	0	1	
		types of pelvic bone	2015	2016	2	percussion and vibration for chest secretion
		family palnning IUD	2015	2016	2	intra uterine device
		labour stage	2015	2016	2	labour process
	الحالات الحرجة والطوارئ	ماتريكان ادخال القسطره		0	2	Laderal
		ماتريكان جروح واصابات متقدم		0	1	تقييم الجروح البسيطة والعميقة ونوع الاصابات البسيطة والمتعددة
		ماتريكان نصفي لتدليك عضله القلب والصدر وبه جهاز لبيان الصواب والخطأ		0	4	يستخدم فى الانعاش القلبي الرئوى للتنفس الصناعى
		ماتريكان نصفي للتدريب علي تدليك عضلة القلب وعمل التنفس الصناعي وبه جهاز للتدريب علي الصدمات الكهربائيه		0	1	يستخدم فى الانعاش القلبي الرئوى اعطاء الصدمات الكهربائيه باستخدام جهاز الصدمات
		sim man classic	2012	0	2	يستخدم فى الانعاش القلبي الرئوى وموصل بجهاز لقياس النبض والضغط ونسبة الاكسجين
		chocking charlie	2017	0	2	يستخدم فى إعطاء التنفس الصناعى
		جهاز تنفس صناعي		0	1	يستخدم فى إعطاء التنفس الصناعى
	شنة للتدريب على الجروح		0	2	تستخدم فى علاج وتمريض الجروح	
	نموذج للتدريب علي استخدام جهاز الصدمات		0	1	كيفية اعطاء الصدمات الكهربائيه وكيفية تقييم فاعليتها	
	truma patient simulator for first aid	2000	2017	1		

Nursing

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
		ultimate hurt	2000	2017	1	
		airway management trainer	2000	2017	1	
		nursing anne	2000	2017	1	
	معمل البالغين	مانيكان للتدريب علي مهام مجري التنفس والعنايه بالمعده		0	1	
		زراع للتدريب علي الحقن الوريدي مزود بشتملاتة		0	5	
		abnormal breast	2015	0	1	
		شنطة للتدريب علي الحروق		0	8	
		مانيكان الحقن العضلي	444	2018	1	<p>معمل الباطني الجراحي أولا تجهيزات المعمل □ المانيكان □ مانيكان كامل للتدريب علي □ stoma and NGT مانيكان نصفي لفحص الثدي □ مانيكان لاجزاء الجسم المتقطع 2 □ (anatomy مانيكان نصفي خاص بقرح الفراش 2 □ مانيكان نصفي للتدريب ع الخياطه والغيار and suture □ dressing مانيكان نصفي ل □ tracheostomy مانيكان نصفي للبتن □ 2(amputation) مانيكان ل □ enema عدد تسعة ازرع للحقن الوريدي □ عدد أربع مانيكان نصفي ل □ I.M مانيكان نصفي ل مجري التنفس 8 □ شنت الحروق □ Procedure (medical surgical 1): 1- Blood sample 2- Cannula insertion 3- Venous puncture (I.V medication) 4- Blood transfusion 5- I.V infusion 6- Wound dressing 7- Stoma care 8- Chest tube care 9- Paracentesis □ -Procedure (medical surgical 2): 1- Burn care 2 -Hemodialysis 3- Neurological care 4- Orthopedic 5 Nasogastric tube care 6- Catheter insertion</p>

Nursing

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Nursing		pain measurement scale	444	2018	1	<p>معمل الباطني الجراحي أولا تجهيزات المعمل □ المانيكان □ مانيكان كامل للتدريب علي □ stoma and NGT مانيكان نصفي لفحص الثدي □ مانيكان لاعضاء الجسم المتقطع 2 □) (anatomy مانيكان نصفي خاص بقرح الفراش 2 □ مانيكان نصفي للتدريب ع الخياطه والغيار suture and dressing مانيكان نصفي ل □ tracheostomy مانيكان نصفي للبتن □ 2(amputation) مانيكان ل □ enema عدد تسعة ازرع للحقن الوريدي □ عدد أربع مانيكان نصفي ل □ I.M مانيكان نصفي ل مجري التنفس 8 □ شنت الحروق 1- Blood (medical surgical 1): □ sample 2- Cannula insertion 3- Venous puncture (I.V medication) 4- Blood transfusion 5- I.V infusion 6- Wound dressing 7- Stoma care 8- Chest tube care 9- Paracentesis □ -Procedure (medical surgical 2): 1- Burn care 2 -Hemodialysis 3- Neurological care 4- Orthopedic 5 Nasogastric tube care 6- Catheter insertion</p>
		abnormalities of chest sound	444	2018	1	<p>معمل الباطني الجراحي أولا تجهيزات المعمل □ المانيكان □ مانيكان كامل للتدريب علي □ stoma and NGT مانيكان نصفي لفحص الثدي □ مانيكان لاعضاء الجسم المتقطع 2 □) (anatomy مانيكان نصفي خاص بقرح الفراش 2 □ مانيكان نصفي للتدريب ع الخياطه والغيار suture and dressing مانيكان نصفي ل □ tracheostomy مانيكان نصفي للبتن □ 2(amputation) مانيكان ل □ enema عدد تسعة ازرع للحقن الوريدي □ عدد أربع مانيكان نصفي ل □ I.M مانيكان نصفي ل مجري التنفس 8 □ شنت الحروق 1- Blood (medical surgical 1): □ sample 2- Cannula insertion 3- Venous puncture (I.V medication) 4- Blood transfusion 5- I.V infusion 6- Wound dressing 7- Stoma care 8- Chest tube care 9- Paracentesis □ -Procedure (medical surgical 2): 1- Burn care 2 -Hemodialysis 3- Neurological care 4- Orthopedic 5 Nasogastric tube care 6- Catheter insertion</p>

Nursing

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
		nasogastric tube	444	2018	1	<p>معمل الباطني الجراحي أولا تجهيزات المعمل □ المانيكان □ مانيكان كامل للتدريب علي □ stoma and NGT مانيكان نصفي لفحص الثدي □ مانيكان لاعضاء الجسم المتقطع 2 □) (anatomy مانيكان نصفي خاص بقرح الفراش 2 □ مانيكان نصفي للتدريب ع الخياطه والغيار □ suture and dressing مانيكان نصفي ل □ tracheostomy مانيكان نصفي للبتن □ (amputation) 2 □ مانيكان ل □ enema عدد تسعة ازرع للحقن الوريدي □ عدد أربع مانيكان نصفي ل □ I.M مانيكان نصفي ل مجري التنفس 8 □ شنت الحروق 1: 1- Blood □ Procedure (medical surgical 1): sample 2- Cannula insertion 3- Venous puncture (I.V medication) 4- Blood transfusion 5- I.V infusion 6- Wound dressing 7- Stoma care 8- Chest tube care 9- Paracentesis □ -Procedure (medical surgical 2): 1- Burn care 2 -Hemodialysis 3- Neurological care 4- Orthopedic 5 Nasogastric tube care 6- Catheter insertion</p>
		chest tube insertion	444	2018	1	<p>معمل الباطني الجراحي أولا تجهيزات المعمل □ المانيكان □ مانيكان كامل للتدريب علي □ stoma and NGT مانيكان نصفي لفحص الثدي □ مانيكان لاعضاء الجسم المتقطع 2 □) (anatomy مانيكان نصفي خاص بقرح الفراش 2 □ مانيكان نصفي للتدريب ع الخياطه والغيار □ suture and dressing مانيكان نصفي ل □ tracheostomy مانيكان نصفي للبتن □ (amputation) 2 □ مانيكان ل □ enema عدد تسعة ازرع للحقن الوريدي □ عدد أربع مانيكان نصفي ل □ I.M مانيكان نصفي ل مجري التنفس 8 □ شنت الحروق 1: 1- Blood □ Procedure (medical surgical 1): sample 2- Cannula insertion 3- Venous puncture (I.V medication) 4- Blood transfusion 5- I.V infusion 6- Wound dressing 7- Stoma care 8- Chest tube care 9- Paracentesis □ -Procedure (medical surgical 2): 1- Burn care 2 -Hemodialysis 3- Neurological care 4- Orthopedic 5 Nasogastric tube care 6- Catheter insertion</p>
		breast examination	2000	2017	1	
		colostomy care permanent and temporary	2000	2017	1	
		types of wound care	2000	2017	1	
		types of pressure ulcer	2000	2017	1	

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Nursing		gastrointestinal assessment	2000	2017	1	
		physiotherapy simulator	2015	2016	2	percussion and vibration for chest secretion
	معمل الاساسيات	مانيكمان المهارات التمريضيه مع محاكاة العلامات الحيويه	Sima model	0	2	يستخدم للتدريب علي قياس العلامات الحيويه
		heart and lung sounds	2016	0	4	يستخدم للتدريب علي سماع صوت الرئه وقياس التنفس
		intramuscular injection buttock	53538	0	9	يستخدم للتدريب علي كيفية إعطاء الحقن العضلي
		نموذج للتدريب علي الخياطات الجراحيه		0	3	يستخدم للتدريب علي العنايه بالخياطات الجراحيه
		beds for patient positioning	2000	2017	1	
		subcutaneous injection	2000	2017	1	
	susie Simon nursing care	2000	2017	1		
Science	Biotechnology Unit	Bioflo 510 culture system (20 L Fermentor)	Bioflo 510	2010	1	Plant tissue culture for production of Valuable pharmaceutical compounds, flavoring compounds, antioxidants....etc
		High speed Continuous centrifuge	CPEA High speed centrifuge Z41	2010	1	To separate materials
		Bioflo 310 culture system (7.5 L benchtop Fermentor)	Bioflo 310	2010	1	Plant tissue culture for production of Valuable pharmaceutical compounds, flavoring compounds, antioxidants....etc
		(- 80) 0C deep freezer	Innova ultra low temperature freezer (- 80oC)	2010	1	ice-maker
		Vertical Gel Electrophoresis (10 x 10 cm) with power supply.	TV 100 Y standard TWIN plate mini gel	2010	1	
		Horizontal Gel Electrophoresis (10 x 10 cm)	TV 100 Y standard TWIN plate mini gel	2010	1	
		PCR system	ProflexTM Base	2010	1	
		Lyophilizer (medium size)	Heto power dry LL3000	2010	1	

Science

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Science		Atomic absorption spectrophotometer (for heavy metals analysis using flame and cold vapor facility).	Buck scientific Accusys 214	2004	1	Elements available for measurement using flame technique: Lead, Cadmium, Zinc, Nickel, Cobalt, Manganese, Cupper, Iron, Chromium, Elements available for measurement using hydride technique: Mercur and Arsenic.
		Lyophilizer (medium size)	Heto power dry LL3000	2010	1	
	Botany Laboratory	Centrifuge	K3 series	2010	1	
		Fermentor	MS-F1	2008	1	Fermentation
		Gel documentation system	MS-F1	2008	1	Gel documentation
		Flamephotometer	PFP7	2008	1	Determine the concentration of certain metal ions
		Fluorimeter	6270	2009	1	Measure parameters of fluorescence
		UV spectrophotometer	UV-2000	2000	1	It is used in analytical chemistry for the quantitative determination of different analytes
	Geology Lab.	Olympus stereo microscopes	SZ-PT	2010	3	Observe specimens
		Leica Polarized Microscopy	DME	2010	1	Observe and photograph specimens
		Fossils Microscopy	SZ	2010	3	Observe and photograph specimens
		Geometrics seismographs	SZ	2010	1	Record the reflection and refraction seismic signals
		Proton Precession Magnetometer	Scintrex mp3	2010	1	Record the magnetic field of the underground rocks
		Air Compressor	72055	2010	1	Vibration for vertebrate fossils
		Shaker	Shaker bottle 2	2008	1	Shake the samples
		SAS 300	Electric Equipment	2011	1	Record the resistance of the underground rocks
		Regular Microscopy	SAS 300	2008	2	Observe specimens
	NMR Lab	Nuclear Magnetic Resonance 500 MHz	Joel 500 MHz	2015	1	Identification of organic compounds
	Physics Lab	Mechanical Testing machine	(WDW50-300kN)	2015	1	Tensile testing - Creep test
		Atomic absorption spectrophotometer (for heavy metals analysis using flame and cold vapor facility).	Buck scientific Accusys 214	2004	1	Elements available for measurement using flame technique: Lead, Cadmium, Zinc, Nickel, Cobalt, Manganese, Cupper, Iron, Chromium, Elements available for measurement using hydride technique: Mercur and Arsenic

Science

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Science	Spectroscopy Lab. (Chemistry)	GC/MS thermo scientific Focus/DSQII	Focus/DSQII Quadrupole GC/MS	2008	1	Molecular mass determination
		FTIR thermo scientific iS10 spectrometer	Nicolet iS10 spectrometer	2007	1	Functional groups analysis
		Unicam UV/vis- (UV2) spectrometer	Unicam UV2 spectrometer	1994	1	Maximum wavelength determination
		Magnetic Susceptibility balance	MK 1 Magnetic Susceptibility Balance	2004	1	Measurement of magnetic moment
	Zoology Lab	Gel electrophoresis	93000.744	2007	1	يستخدم في فصل البروتينات بجميع أحجامها علي مستوي الخلايا أو بلازما الدم . كما يستخدم في فصل الأحماض الأمينية وجزئيات الأحماض النووية الناتجة من الجينوم أو من PCR
		UV/vis spectrometer	PG Instruments Limited U.K	2002	1	يستخدم في قياس محتوى الإنزيمات والهرمونات وتقدير بعض المركبات الكيميائية معتمدة علي الطول الموجي لها.
		Multigene PCR	Multigene .Gradient	2002	1	يستخدم بشكل واسع لكل الأبحاث الخاصة بالحمض النووي DNA وكذلك تشخيص الأمراض التي تسببها البكتيريا والفيروسات ويستخدم في الإستنساخ وإنتاج خلايا أكثر.
		Autoclave	wAcs- 2045	2002	1	يستخدم في تعقيم الأدوات والكيماويات والمحاليل المستخدمة في علم الأحياء الدقيقة وزراعة الأنسجة.
		High speed centrifuge	IGL- 16C	2007	1	يستخدم لفصل العينات عند سرعات عالية تصل إلي ١٥.٠٠٠ لفة في الدقيقة.
		Optics Inverted Microscope	XD3-3 SN:307235 (Optika-XD3-3)	2007	1	يستخدم لفحص ومراقبة الخلايا الحية في حالة الظروف الطبيعية وزراعة الأنسجة كما يستخدم في فحص شرائح الأنسجة العادية سواء المصبوغة ب Immuno fluoцент& Hematoxylein& Eosin
		Elissa reader	DU 990 BIV6	2000	1	يستخدم في قياس محتوى الأنزيمات والهرمونات وتقدير بعض المركبات معتمدة علي الطول الموجي لها.
	Natural Products Lab.	Preparative HPLC	Agilent 1260 infinity II	2018	1	Quantitative analysis and separation of natural extracts and mixtures of organic compounds
	Microanalysis Unit	GBC Atomic Absorption Spect.- SENSAA Dual	Sensaa Dual	2012	1	Concentration measurement of Periodic table elements
		Thermal Analysis	SHIMADZU	1996	1	Differential Thermal Analysis Thermal Gravimetric Analysis Differential Scanning Colorimetry
		Potential Stat /Galvano Stat (Gamry)PCI4-G750	PCI4-G750	2007	1	Measurement of corrosion of metal
	Spectrophotometer	Derkin Elmer 2380 Spectrophotometer	2010	1	The laboratory performs analyzes to identify the concentration of chemical elements in the periodic table using the atomic absorption device	

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Science		UNICAM-UV/VIS.Spect	MATTSON 5000 FTIR Spect	2011	1	The laboratory was carried out tests on the new compounds to confirm the chemical composition and the crisis for students of scientific research and faculty members inside and outside the university using modern spectroscopy devices.
		Herause C,H	Herause C,H	2012	1	The laboratory carried out tests on the new compounds to verify their chemical composition
	Organic Synthesis and Dyeing	Dyeing Lab machine	Asian Test Equipments	2006	1	Dyeing of Textiles
		Sunset-CPS-Light fastness	Sunset-CPS	2006	1	Measurement of the light fastness for dyed fabrics
	Surfaces Lab.	Surface area detector	SAS 300	1998	1	Determination of the surface areas
	Biochemistry Lab.	PCR instrument	Labcycler 48230V	2010	1	PCR can be used to create copies of DNA for introduction into host organisms such as Escherichia coli in genetic engineering, and to amplify stretches of genetic material for Sanger sequencing – the Human Genome Project used PCR.
		Vertical Protein Electrophoresis	omniPAGE Mini	2013	1	Cleaver Scientific Mini Vertical systems are predominantly used for protein electrophoresis. By combining both functionality and ease of use, the omniPAGE systems set the bench mark for simple, versatile vertical mini gel electrophoresis. Each omniPAGE electrophoresis system can accommodate up to 4 handcast gels (additional plates required) or 2 commercial precast gels to provide complete flexibility for individual research needs, while unique sliding clamp technology within the PAGE insert facilitates fast, intuitive leak-free casting.
		DNA Electrophoresis	omniPAGE Mini	2013	1	Achieve rapid isolation and purification of genomic and plasmid DNA. Buy Now! Extract high-quality DNA w/ excellent reproducibility for molecular biology experiments.
Dentistry	Central research Lab معمل الأبحاث المركزي	Precision cutter	PICO 155	0	1	Cutting
		Lloyd instruments	LS 500	0	1	Mechanical testing machine
		Vacuum mixer	LS 500	0	1	Mixing investment, plaster and stone under vacuum
		Incubator	Ehret TK 3023	0	1	Maintain temperature of the atmosphere inside

Faculty	Lab	Equipment	Model	Manufacturer Year	Available Units	Functions
Dentistry		Electronic Balance	Uni Bloc ATY 224	0	1	Accurately measure small mass in the sub-milligram range
		Surftest	SJ - 210	0	1	Measure surface roughness of materials
		Vickers Microhardness Tester	HV - 1000A Automatic	0	1	Measure surface hardness of materials- Serial No. 268
		Thermocycling	Thermocycling	0	1	Evaluate influence of thermal stresses on properties of materials