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 Elsadat City Elmeher Elmarkazy - 2 Cairo Alexandria Desert RD K92



# FACULTY OF Applied Health Sciences Technology (AHST)

# Vision & Mission of Faculty Applied Health Sciences Technology (AHST)

## Vision

Leadership and excellence at the local and international levels in delivering high-quality educational and research programs in applied health sciences, within a sustainable and innovative framework that supports education, scientific research, and community service.

## Mission

To provide advanced and continuous educational and research programs, alongside distinguished community services, in alignment with Egypt's vision for innovation and creativity at the local and global levels. The faculty is committed to preparing graduates with the knowledge and skills required to compete effectively in the labor market, while upholding ethical values to achieve sustainable development and contribute to Egypt's future vision.

# Why Studying in the Faculty of Applied Health Sciences at Al Ryada University?

At the Faculty of Applied Health Sciences Technology, we are committed to providing an exceptional educational experience that prepares you for a successful and impactful career. Here's why you should choose us:

- **Cutting-Edge Curriculum:** Our programs provide advanced knowledge and skills in basic, applied, engineering, and medical sciences, ensuring students stay at the forefront of health technology."
- **Career-Ready Graduates:** We meticulously align graduates's skills and attributes with the dynamic demands of the labor market, making our graduates highly competitive and sought-after.
- **Expert Faculty & Mentorship:** Benefit from the expertise of our dedicated faculty members and teaching assistants, who continuously enhance their instructional methods through professional development programs.
- **Digital Learning Excellence:** Embrace the future of education with our modern e-learning approaches and digital transformation initiatives, designed to enhance the quality of your learning experience.
- **Innovation & Lifelong Learning:** Develop strong analytical reasoning, creativity, innovation, and self-directed learning skills that personal and professional growth.
- **Pioneering Research Opportunities:** Engage in high-quality scientific research that fosters innovation and creativity, contributing to sustainable development and advancement of health technology.
- **Quality Assurance & Accreditation:** Our commitment to institutional and programmatic accreditation ensures that you receive an education that meets the highest national and international quality standards.
- **Strong Industry Partnerships:** Benefit from robust partnerships agreements with leading institutions and companies, providing invaluable support and diverse opportunities across our programs.





# Faculty of Applied Health Sciences Technology

## BSc Degrees

Discover our diverse range of Bachelor of Science programs, meticulously designed to equip you with specialized knowledge and practical skills for the dynamic healthcare industry. Our seven distinct programs offer pathways to impactful careers in various fields of applied health sciences technology:

- Technology of Medical Laboratories (ML)
- Technology of Radiology and Medical Imaging (RM)
- Technology of Biomedical Equipment (BE)
- Technology of Nutrition and Food Safety (NS)
- Technology of Dental Prosthesis (DP)
- Technology of Critical Care and Anesthesia (OP)
- Technology of Optics



# Program Technology of Medical Laboratory

## Program Mission

To prepare distinguished competencies academically and technically in the field of medical laboratory technology, with the aim of contributing to the provision of high-quality healthcare services, supporting scientific research, and adhering to quality assurance standards and professional ethics, in order to develop society

## Graduate Specifications

Upon graduation, students will be able to:

- **Demonstrate comprehensive knowledge, practical skills, and professional conduct in medical laboratory practice.**
- **Apply occupational safety and infection control procedures in all workflows.**
- **Assume personal and professional responsibility and adhere to professional ethics.**
- **Proficiently operate modern analyzers and perform diverse medical tests.**
- **Accurately read and interpret laboratory results.**

## CAREER OPPORTUNITIES

**Graduates of the Medical Laboratory Technology Program are prepared for diverse roles in healthcare settings, including Medical Laboratories (hospitals, private labs), Research Institutions, Pharmaceutical Companies & Public Health Organizations**



## Program Technology of Radiology & Medical Imaging

### Program Mission

To prepare highly competent graduates in radiology & medical imaging technology, capable of operating advanced imaging equipment, performing diagnostic procedures accurately, and contributing to patient care and medical advancements.

### Graduate Specifications

- Position patients accurately and perform diagnostic X-ray studies with precision.
- Assist in CT/MRI basic protocols and patient safety screening.
- Prepare and support contrast procedures according to guidelines.
- Manage studies on PACS/RIS with correct DICOM labeling.
- Practice radiation protection and basic equipment quality checks.

### CAREER OPPORTUNITIES

Graduates of the Radiology and Medical Imaging Technology Program are prepared for roles in Hospitals and Medical Centers (Radiology Departments), Diagnostic Imaging Clinics, Research Institutions, Medical Equipment Companies (sales, application specialists) & Public Health Programs



# Program Technology of Biomedical Equipment

## Program Mission

To equip graduates with the knowledge and practical skills required for the design, development, maintenance, and operation of biomedical devices, contributing to advancements in medical technology and patient care.

## Graduate Specifications

- Install, calibrate, and commission medical devices for clinical use.
- Perform scheduled preventive maintenance and basic troubleshooting.
- Calibrate common devices and document service activities.
- Support compliance with safety standards and facility policies.
- Train clinical staff on correct and safe device operation.

## CAREER OPPORTUNITIES

Graduates of the Biomedical Devices Technology Program can pursue careers in Hospitals and Healthcare Facilities (Biomedical Engineering Departments), Medical Device Manufacturing Companies, Research and Development Institutions, Regulatory Agencies & Sales and Technical Support for Medical Equipment



Discover our  
specialized programs

## Program Technology of Nutrition and Food Safety

### Program Mission

To prepare graduates with comprehensive knowledge and practical skills in nutrition science, food safety, and quality control, enabling them to promote public health, ensure food security, and contribute to the food industry.

### Graduate Specifications

- Conduct comprehensive nutrition assessments and develop personalized care plans.
- Implement and monitor HACCP/food-safety controls in kitchens and facilities.
- Perform hygiene checks and basic food-microbiology sampling.
- Plan therapeutic menus with nutrition analysis and cost awareness.
- Educate staff and clients on allergens, labeling, and safe handling.

### CAREER OPPORTUNITIES

Graduates of the Nutrition and Food Safety Technology Program can find opportunities in Hospitals and Healthcare Facilities (Dietetics and Nutrition Departments), Food Manufacturing and Processing Companies, Government Regulatory Bodies (Food Safety Agencies), Research and Development in Food Science, Catering and Food Service Management & Public Health and Community Nutrition Programs

# Program Technology of Dental Prosthesis



## Program Mission

To train highly skilled professionals in dental prosthetics technology, capable of designing, fabricating, and repairing various dental appliances and prostheses, contributing to oral health and patient well-being.

## Graduate Specifications

- Take precise impressions or scans and design dental restorations using CAD/CAM technology.
- Fabricate removable prostheses and orthodontic appliances to prescription.
- Match shades and finish restorations to high aesthetic standards.
- Operate milling/3D-printing units and complete post-processing.
- Maintain infection control and accurate case documentation.

## CAREER OPPORTUNITIES

Graduates of the Dental Prosthetics Technology Program can pursue careers in Dental Laboratories, Dental Clinics and Hospitals, Dental Material and Equipment Manufacturing Companies, Research and Development in Dental Technology & Academic and Training Institutions



## **Program Technology of Critical Care & Anesthesia**

### **Program Mission**

To prepare highly skilled professionals capable of assisting in critical care and anesthesia procedures, operating life-support equipment, and ensuring patient safety and comfort in intensive care units and operating rooms.

### **Graduate Specifications**

- Prepare operating room (OR) and ICU equipment, and perform thorough checks on anesthesia systems prior to use.
- Assist induction, maintenance, and emergence with accurate recording.
- Operate ventilators and monitors and respond to alarms appropriately.
- Support BLS/ACLS readiness and emergency cart organization.
- Maintain asepsis, infection control, and safe sharps/gas handling..

### **CAREER OPPORTUNITIES**

Graduates of the Critical Care and Anesthesia Technology Program can find opportunities in Hospitals (Intensive Care Units, Operating Rooms, Emergency Departments), Ambulance and Emergency Medical Services, Specialized Clinics, Medical Equipment Sales and Support & Training and Education



# Program Technology of Optics

## Program Mission

To educate and train skilled optometry technologists capable of performing comprehensive eye examinations, assisting ophthalmologists, dispensing corrective lenses, and contributing to vision care and public eye health.

## Graduate Specifications

- Perform both objective and subjective refraction tests and accurately record visual acuity.
- Use lensometry and PD measurements; edge and mount lenses precisely.
- Fit contact lenses and provide patient education and aftercare.
- Operate slit lamp/keratometer/tonometer and recognize red-flag signs.
- Dispense frames and low-vision aids with accurate adjustments and records.

## CAREER OPPORTUNITIES

Graduates of the Optics Technology Program can find opportunities in Ophthalmology Clinics and Hospitals, Optical Shops and Retailers, Vision Care Centers, Research Institutions focused on Ocular Health & Medical Equipment Companies (specializing in optometry devices)





# Study System

At the Faculty of Applied Health Sciences Technology, our study system is designed to provide a flexible, comprehensive, and modern educational experience, preparing students for successful careers in the health sector.

Credit Hour System	The faculty adopts a credit hour system, with all studies conducted in English.
Credit Hour Definition	1 theoretical hour = 1 credit hour; 2 practical/tutorial hours = 1 credit hour; 4 field training/hospital/project hours = 1 credit hour.
Program Duration	The Bachelor's degree program is four years, divided into eight main semesters. Graduation requires 130 credits: University requirements 10 (6 compulsory + 4 elective), Faculty requirements 40 (36 compulsory + 4 elective), and Major requirements 80 (74 compulsory + 6 elective)
Academic Year Structure	The academic year consists of two main semesters (Fall and Spring), each 15 teaching weeks, and an optional 8-week Summer semester.
Academic Load	Students can register for 12 to 18 credit hours per main semester. The summer semester allows a maximum of 9 credit hours, extendable to 12 for graduation purposes.
Study Methods	We employ modern teaching methods such as inquiry-based learning and cooperative learning. A hybrid learning system, combining face-to-face and distance learning, may also be applied.
Academic Progression	The first year provides a strong foundation with general university and faculty-wide courses in basic sciences (e.g., Anatomy, Physiology, Histology, Biochemistry, Biophysics). From the second year, students begin to focus on their chosen specialization, delving into advanced courses specific to their program of study.
Graduation Requirements	To obtain a Bachelor's degree, students must complete 130 credit hours, including university, faculty, and specialization requirements, and successfully pass a mandatory field training of at least 200 hours.
Field Training	Field training is distributed gradually over the four years of study and is a mandatory graduation requirement, evaluated on a Pass/Fail basis.



## How to apply?

- Visit our website at [www.rst.edu.eg](http://www.rst.edu.eg) to review the admission requirements.
- Submit your application online via the admissions portal on our website.
- For further information, please call the RST Hotline at **16504** to speak with a representative from the Student Affairs Department.

## When to apply





- Admission is currently open.
- We encourage applicants to apply early to secure their place in the chosen program.
- Once a program reaches capacity, qualified applicants will be placed on a waiting list.
- For more details, visit the faculty website: [www.rst.edu.eg](http://www.rst.edu.eg)

## What's next?

### Virtual Visit

- Can't get to Al-Ryada in person? Our virtual tour includes videos, 360° photos, and image galleries.
- Begin your tour at: [virtualvisits.rst.edu.eg/undergraduate](http://virtualvisits.rst.edu.eg/undergraduate)

## Get social Click

-  [instagram.com/AIRadaUniversity](https://www.instagram.com/AIRadaUniversity)
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-  [facebook.com/AIRyadaUniversity](https://www.facebook.com/AIRyadaUniversity)
-  [twitter.com/AIRyadaUnversity](https://twitter.com/AIRyadaUnversity)



## Chat online

Have questions about admissions? Chat live with our team to learn more about our programs.

## Contact us

Our Prospective Student Enquiry Team can advise you on admission to specific degrees or assist with general inquiries...

Email: [futurestudents@rst.edu.eg](mailto:futurestudents@rst.edu.eg)

# AL RYADA UNIVERSITY


## FOR SIENCE AND TECHNOLOGY

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 [www.rst.edu.eg](http://www.rst.edu.eg)

[admission@rst.edu.eg](mailto:admission@rst.edu.eg)

[info@rst.sdu.eg](mailto:info@rst.sdu.eg)

 Elsadat City Elmehwer Elmarkazy - 2 Cairo Alexandria Desert RD K92