

Akkreditierungsagentur
im Bereich Gesundheit und Soziales
Accreditation Agency in Health and Social Sciences



Assessment Report

**for the Application of
University of Sharjah,
College of Health Sciences
for the Accreditation of the Bachelor Study Program
“Medical Laboratory Sciences” (Bachelor of Science)
and the Master Study Program
“Medical Laboratory Sciences” (Master of Science)**

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1 Introduction

The Accreditation Agency in Health and Social Sciences (AHPGS) is an interdisciplinary and multi-professional organization. Its mission is to evaluate Bachelor and Master' programs in the fields of health and social sciences, as well as in related domains such as law or economics. By conducting accreditation and recommendation procedures, the AHPGS contributes to the improvement of the overall quality of teaching and learning. However, the higher education institutions remain responsible for implementing the quality assurance recommendations made by the AHPGS. Since 2004, the AHPGS has been a member of the European Consortium for Accreditation (ECA). In 2006, the AHPGS also joined the ENQA and became a member of the International Network for Quality Assurance Agencies in Higher Education (INQAAHE) in 2009. Since 2012, the AHPGS has been a member of the Network of Central and Eastern European Quality Assurance Agencies in Higher Education (CEENQA). Furthermore, the AHPGS has been listed in the European Quality Assurance Register (EQAR) since 2009.

In carrying out accreditation procedures, the AHPGS follows the requirements of the Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG). In the present case, the decision regarding the accreditation of the study program is carried out by the AHPGS Accreditation Commission based on the following accreditation criteria¹:

1. Program aims and learning outcomes
2. Curriculum design
3. Personnel
4. Facilities and learning resources
5. Study process and student assessment
6. Program and quality management

¹ Approved by the AHPGS Accreditation Commission

I. The University's application

The AHPGS verifies the sufficiency of the documents submitted by the University, namely the Self-Evaluation Report and its corresponding annexes. These are to fulfil the assessment spheres as well as the AHPGS standards. With these information, the AHPGS produces a summary (see Sections 2-5), which is to be approved by the University and subsequently made available for the expert group, together with all other documentation.

II. Written review

The main documents are reviewed by the expert group assigned by the accreditation commission of AHPGS. This is done in order to verify the compliance of the study program with the above-mentioned criteria. Consequently, the experts comprise a short summary regarding the study programs.

III. On-site visit (peer-review)

The experts carry out an on-site visit at the University. During this visit, discussions are held with members of the University, which include University and department administration, degree program management, teachers, and students. These discussions provide the expert group with details about the study program beyond the written documents. The task of the experts during the on-site visit is to verify and evaluate the objectives of the program, its projected study results, its structure, staff, material resources, course of studies, methods of assessment (selection of students, assessment of achievements, students' support), as well as the program management (program administration, external assurance of study quality).

Following the on-site visit, the expert group writes the Expert Report. This report is based on the results of the visit, the written review of the study programs, and the documents submitted by the University. Finally, the report is made available to the University for the opportunity to issue a response opinion.

The Expert Report as well as the University's response opinion – together with the provided documents – is submitted to the accreditation commission of the AHPGS.

IV. The AHPGS accreditation decision

The accreditation commission of the AHPGS examines the documentation made available in the process of application, namely the University's self-evaluation report, its annexes, the summary comprised by the AHPGS, the Expert Report, as well as the University's response opinion. These documents represent the foundation for the commission's decision regarding the recommendation for accreditation of the study program.

2 Information about the University

The University of Sharjah (UOS) was established in 1997 with the aim and vision to offer comprehensive and multi-disciplinary study programs. Currently, UOS offers 123 study programs at 14 different colleges across multiple academic disciplines. The University has two main campuses in Sharjah as well as campuses in Kourfakkan, Aldhaid and Kalba. There are currently over 18.000 students studying at UOS. Furthermore, UOS has 39.000 alumni.

Since its establishment in 1997, the University has put research at the top of its list of priorities. One part of the University's strategy is to promote research among all faculty members in all colleges, with the aim of attracting staff with research accomplishments. This stems from the University's understanding of scientific research as the basis of economic, social, humanitarian and medical developments. Many active research institutes, centers and groups have been established over the years and engage in a wide spectrum of interdisciplinary research geared to advance development in the region and beyond.

University of Sharjah has three research institutes, which namely are "Research Institute of Medical and Health Sciences", "Research Institute of Sciences and Engineering" and "Research Institute of Humanities and Social Sciences".

The College of Health Sciences, where the Bachelor and Master study programs Medical Laboratory Sciences are located, was founded in 1998. It has become the third largest College at the University of Sharjah with nearly 2.000 students. It was established to educate highly skilled health workers in different specializations to fulfill the needs of the healthcare market in the United Arab Emirates and the neighboring regions. The College currently offers seven Bachelor and four Master study programs, which are all part of the international accreditation procedure by AHPGS. The future plans of the College include the expansion of Master study programs by adding the Master programs "Medical Diagnostic Imaging", "Applied Nutrition" and "Public Health". The College is also planning to launch its first PhD program within the next three years.

The department of Medical Laboratory Sciences, was established in 1998. There are currently no other study programs at this department besides the Bachelor and Master study programs "Medical Laboratory Sciences". The Bachelor was established in 1999, while the Master was implemented 20 years later in 2019.

3 Overview

3.1 Procedure-related documents

The University of Sharjah delegated the accreditation of its Bachelor study programs "Clinical Nutrition & Dietetics", "Nursing", "Health Services Administration", "Medical Diagnostic Imaging", "Physiotherapy", "Environmental Health Sciences", "Medical Laboratory Sciences" as well as the Master study programs "Physiotherapy", "Medical Laboratory Sciences", "Adult Critical Care Nursing" and "Environmental Health Sciences".

The Self-Evaluation Report for accreditation (without the awarding of the official seal of the Accreditation Council of the Foundation for the Accreditation of Study Programs in Germany) of the above-mentioned study programs (hereinafter the Self-Evaluation Report) of the University of Sharjah (hereinafter the University) was submitted to the Accreditation Agency in Health and Social Science (AHPGS) in electronic format on April, 28, 2022. The decision regarding the accreditation of a study program is carried out by the Accreditation Commission of AHPGS. The contract between the University of Sharjah and the AHPGS was signed on January, 26, 2022.

On September, 15, 2022 the AHPGS forwarded the open questions and explanatory notes (hereinafter OQ) concerning the study programs accreditation to the University. On September, 29, 2022 the University submitted the answers to the open questions and explanatory notes (hereinafter AOQ) to the AHPGS in electronic format.

The application documentation submitted by the University of Sharjah follows the outline recommended by the AHPGS. Along with the application request for the accreditation of the Bachelor and Master study programs "Medical Laboratory Sciences", the following additional documents can be found in the application package (the documents submitted by the University are numbered in the following order for easier referencing):

Specific documents for the Bachelor and Master study programs "Medical Laboratory Sciences"

Annex	Description
01	Course Syllabi BA
02	Course Syllabi MA
03	CV for Instructors
04	Teaching Matrix
05	Student Projects BA
06	Student Projects MA

Alongside the study-program-specific documents, the following documents pertain to all study program submitted for external evaluation:

Annex	Description
A	Cooperation Agreement Mediclinic
B	Memorandum of Understanding UOS & FUH
C	Memorandum of Understanding UOS & Hospital
D	Memorandum of Understanding UOS & Aster
E	Disability Services and Facilities
F	Diversity Equity and Inclusion
G	Institutional Effectiveness Manual 2021 - 2022

The application, the open questions (OQ) and the answer to the open questions (AOQ) as well as the additional documents build the basis for the present summary. The layout bears no significance, as it solely reflects the agreed standard within the University.

3.2 Structural data of the study program

University	University of Sharjah
Faculty/Department	College of Health Sciences Department of Medical Laboratory Sciences
Cooperation partner	<ul style="list-style-type: none"> - Emirates Health Services (formerly Ministry of Health and Prevention) - Zuleikha Hospital - Al Jalila Children's Specialty Hospital - Esther Health Group - Al Mousa College

	<ul style="list-style-type: none"> - Mediclinic Middle East - University Hospital Sharjah - American Hospital
Title of the study program	BA: "Medical Laboratory Sciences" MA: "Medical Laboratory Sciences"
Degree awarded	BA: Bachelor of Science in MLS MA: Master of Science in MLS
Form of studies	BA: Full-time, on-campus MA: Full-time/part-time, on-campus
Organisational structure	Monday to Thursday from 07:30 am to 05:30 pm
Language of Studies	English (except Arabic language courses and Islamic studies)
Period of education	BA: 8 Semesters MA: 4 Semesters (full-time) 6 Semesters (part-time)
Credit Hours (CH) according to the internal Credit Hour System	BA: 134 CH (equals 227 ECTS Credit Points) MA: 36 CH (equals 61 ECTS Credit Points)
Hours/CP	1 Theory Credit hour = 1 Hour 1 Lab/Practical Hours = 3 Hour
Workload	<p>Bachelor MLS</p> <p>Total: 4,565 hours</p> <p>Theory hours: 1,365 hours</p> <p>Practical hours 1,035 hours</p> <p>Individual work: 1,405 hours</p> <p>Practice: 760 hours</p> <p>Master MLS</p> <p>Total: 1,420 hours</p> <p>Theory hours: 330 hours</p> <p>Practical hours 410 hours</p> <p>Individual work: 680 hours</p>
CP for the graduation project	BA: 3 CH MA: 6 CH

Launch of the study program	BA: 1998 MA: 2019
Time of admission	BA: fall semester and spring semester MA: fall semester
Number of available places on the program	BA: 50 places per fall semester 15 places per spring semester MA: 12 places per fall semester
Number of enrolled students	BA: 306 MA: 20
Particular enrollment conditions	BA: <ul style="list-style-type: none"> - High school certificate - TOEFL score of more than 500 - IELTS score more than 5.5 MA: <ul style="list-style-type: none"> - Bachelor's degree with a cGPA of 3 - TOEFL score of more than 550 - IELTS score more than 6
Tuition fees	BA: 28,346 AED per semester MA: 3,045 AED per credit hour

Chart 1: Structural data of the study program

4 Expert Report

The on-site visit was carried out on January 23-25, 2023, according to the previously agreed schedule. Representatives from the head office of AHPGS accompanied the Expert Group.

The Expert Group met on January 22, 2023 for preliminary talks prior to the on-site visit. They discussed the submitted application documents and the results of the written evaluation as well as questions that had been raised prior. Furthermore, they prepared the plan of the on-site visit at the University.

During the on-site visit, experts held discussions with the University management, representatives of the College of Health Sciences, the Chair, Vice Chair and the teaching staff of the program "Medical Laboratory Sciences" as well as with students currently studying in the program and alumni. Furthermore, they

inspected the learning premises, such as lecture halls, seminar classrooms, library, and computer classes. Moreover, experts had the opportunity to examine the equipment and the capacity of the laboratories.

During the on-site visit, the University submitted the following additional documents at the request of the Experts:

- Workload overview of all study programs of the College of Health Sciences

The Expert Report is structured in compliance with the “Standards and Guidelines for Quality Assurance in the European Higher Education Area” (ESG), established by the European Association for Quality Assurance in Higher Education (ENQA). The Study Program will be described and analyzed in a comprehensive manner below. The documents submitted by the University, the Experts’ feedback on the documents, the observations made during the on-site visit, the results of discussions with the representatives of the University, College of Health Sciences and the department of Medical Laboratory Sciences serve as the foundation for the statements made in the expert report.

4.1 Program aims and their implementation

Summary

The department of Medical Laboratory Sciences (MLS) is committed to provide students with challenging and empowering clinical laboratory science education and training. Owing to great advances in biomedicine and technology, the role of medical laboratory specialists in patient care and management has gained great momentum in recent years. The wide array of diagnostic lab tests performed by the diagnostic lab in any health care facility is a cornerstone upon which physicians and practitioners base their professional decisions as to how to treat and manage patients. Hence, there is a growing need for highly qualified senior lab practitioners who could oversee the work of specialist and ensure the highest level of quality. Hospitals and other health care facilities as well as accrediting entities consider it a pre-requisite for any medical diagnosis lab to be supervised by competent and well-trained individuals

According to the University, the employment opportunities for graduates of both study programs are excellent especially during and after the COVID-19 pandemic because of the need for lab personnel to cope with the increasing demands of COVID-19 tests, vaccination and patient management. Out of all the graduates, more than 50 % usually get employed whether in the private sector or the public sector. As the University states, most of the graduates are employed by general or specialized hospitals. About 10 % pursued their postgraduate or PhD studies. Some of them also get a job in the teaching-, pharma- or related sectors. The Master study program graduates have good employment opportunities in academics or the industry. According to the University, some of the Master students are already working (on study leave or part time) and will get promoted after their graduation.

However, although the department of Medical Laboratory Sciences as well as the alumni office are trying to keep track of the graduates, many of them are not accounted because they either left the county (many expats), severed relations with the alumni association or have left the job market because of marriage and family duties. Tables with information about the graduates are given in SER 1.4.2.

Bachelor Study Program Medical Laboratory Sciences

The program aims at being recognized at national and international levels as well as to provide students with a high quality comprehensive educational program in MLS.

According to the University, the goal of the “Medical Laboratory Sciences” Bachelor program is furthermore to graduate professionally competent medical laboratory scientists prepared to meet the workforce needs of Sharjah, the Emirates and the region. Furthermore, the students shall be prepared to be internationally competitive. Therefore, the students should be equipped with learning tools that will help them to improve life-long knowledge and skills such as self-learning, critical-thinking and evidence-based clinical learning.

The program objectives and learning outcomes are based on the National Qualification Framework (NQF) Emirates that provides the five learning skills ‘Knowledge’, ‘Skill’, ‘Autonomy and Responsibility’, ‘Role in Context’ and ‘Self-development’.

The students acquire a broad foundation of knowledge and technical skills in medical laboratory sciences and how laboratory relates to clinical medicine and patient care. Therefore, the students learn to utilize administrative skills and knowledge consistent with the principles and standards of quality assurance, continuous quality improvement and laboratory continuing education as well as advocate for safe laboratory practice including maintenance of working environment adherence to safety rules and regulations and appropriate handling and processing of test samples.

Master Study Program Medical Laboratory Sciences

As junior professionals, it takes the bachelor graduates many years of practice to gain the experience and knowledge necessary to work as senior lab managers. Additionally, there are batteries of advanced and technically-challenging biochemical and molecular tests that need special training and can only be conducted by senior specialists. The Master study program “Medical Laboratory Sciences” is designed to help prospective students to develop the theoretical background and technical skills as well as the technical experience in lab quality control and quality assurance by enrolling in compulsory courses to help them achieve this goal. As the University states, gaining enough proficiency to be an effective liaison of the profession, be it with medical team at their facility, government agencies, public and private health care sectors, or quality control/assurance entities requires much deeper knowledge and experience than

what a regular undergraduate training program in medical laboratory would usually provide.

The program objectives and learning outcomes are based on the National Qualification Framework (NQF) Emirates that provides the five learning skills 'Knowledge', 'Skill', 'Autonomy and Responsibility', 'Role in Context' and 'Self-development'.

The students acquire specialized factual and theoretical knowledge, conduct independent scientific research, perform sophisticated and technically advanced medical diagnostic tests that can't be done in a routine diagnostic lab setting and implement all applicable ethical standards whether in clinical practice or research work.

Judgement

The experts inquire about the development of the SPIRIT strategic plan, which is scheduled from 2019-2024. The experts are impressed by the strategic documents of the university, which are also available on the website. The university reports that in terms of internationalization many collaborations could have been implemented. The College of Health Sciences, where the Bachelor and Master study programs "Medical Laboratory Sciences" are located, is currently planning cooperations with several hospitals in Germany and would like to send students e.g. to Germany for elective modules in the summer. Currently, it is not possible to award credits for these elective modules outside of the UAE, but the University plans to implement regulations for transferring credits outside of the UAE. The experts appreciate this. Nevertheless, they recommend that the exchange between teachers and students should be further supported. The students also confirm their interest in mobility options.

In terms of research volume at the College of Health Sciences, it is reported that of today, 67 research groups have been implemented at various colleges, which also are involving graduate students who should at least publish one Q1 or Q2 papers. With an average of eight publications per person per year, the University has one of the highest publication rates in the region. The University also reports plans to intensify cooperation with industry in terms of research activities in order to serve the country. Not only has the University grown by 43% in the last three years, but UAE students now make up about one-third of the student body. The University of Sharjah is also now for the first time the health sciences training partner of the Ministry of Defense and is building a good connection with the local

community, for example through a center for healthy aging. The experts positively acknowledge that. According to the experts, the Master's degree fulfills everything needed to prepare students for professional practice at the Master's level. In order to further accommodate research efforts and also international competition, the experts recommend strengthening the research component in the Master's program, by, for example, crediting the graduation project with more CH.

From the experts' point of view, as described above, the Bachelor as well as the Master study program "Medical Laboratory Sciences" focus on specific qualification objectives. These objectives cover professional and interdisciplinary aspects and particularly refer to the domain of academic competences, competences necessary for a qualified employment, skills of social commitment and personal development.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

4.2 Structure of the study program

Summary

The module description/course syllabi cover the following aspects: class timing, venue, faculty, course description, prerequisite, credit hours, course learning outcomes, teaching strategies, course activities and assignments, team-based learning sessions, course work policy, class attendance policy, evaluation method, grading, recommended text, other recommended references. Furthermore, a table of academic weeks and assignments due dates is offered (Annex 01).

The College of Health Sciences has established a clinical training unit that assists and oversees the clinical placement of students across all departments. Those involved in training, like course instructors and clinical tutors attend conferences and workshops that are accredited with continuous professional development and continuous medical education. There are regular meetings held between the program clinical training coordinator and the faculty clinical tutors involved in the training courses.

The University of Sharjah emphasizes the use of modern teaching strategies that focus on the involvement of students in the learning process. The courses are delivered comprehensively through diverse teaching strategies in classroom,

laboratory and clinical practice sessions. The faculty employs a combination of teaching and learning methods to facilitate the learning process in an effective manner. In addition to the conventional method of delivering lectures, emphasis is laid upon participatory approach through group discussion, individual or team-based activities and project work or case studies. Some teaching methods include lectures, team-based learning, group discussions, projects, laboratory experiments, audiovisuals and guest speakers (SER 1.2.4). All faculty members of the Medical Laboratory Sciences department are using black board as the main platform through which they deliver their lectures and teaching materials. In addition, Zoom and Microsoft Teams are used to give live lectures (1.2.5).

Research is integrated into teaching at the University of Sharjah by sharing new research and knowledge as well as constantly updating courses to include the up-to-date findings in the field of study. This includes recent published clinical cases, discussion of new information/research/updates posted on a professional website, discussion of new technologies like mRNA vaccines, CRISPR, etc. Assignments are based upon recent research data, as the University states.

Regarding incoming or outgoing students, the program adopts the policy for admission of transfer students from other Universities, colleges or departments of University of Sharjah (SER 1.2.9).

Bachelor Study Program Medical Laboratory Sciences

The program comprises 43 modules, out of which six modules are university requirements, seven modules are college requirements and 28 courses are program requirements. Furthermore, there are two elective modules on the university level. The university and college requirements are common to all departments at the College of Health Sciences.

There are between five and six modules in total provided for each semester. All modules have to be completed within one semester. The Bachelor study program “Medical Laboratory Sciences” offers between 15 and 18 credit hours (CH) per semester. According to the University bylaws and regulations, the study load per student per semester ranges between a minimum of 12 credit hours, a maximum of 18 credit hours and an absolute maximum of 21 credit hours.

The list of modules offered in the Bachelor study program “Medical Laboratory Sciences”:

Nr.	Title	Sem.	CH
0201102	Arabic Languages	1	3
0202121	English for Medical Sciences	1	3
0500150	Biology	1	4
0500161	Introduction to Health Sciences	1	2
1426155	General Chemistry for Health Sciences	1	4
			16
0104100	Islamic Culture	2	3
0500160	Human Anatomy and Physiology	2	4
1411100	Introduction to Information Technology (English)	2	3
1430107	General Physics for Health Sciences	2	4
	University Elective (1)	2	3
			17
1440163	Calculus for HS	3	3
0501258	Molecular Genetics	3	4
0501253	Medical Microbiology	3	4
1426217	Organic Chemistry for Health Sciences	3	4
0501254	Histology	3	3
			18
0501260	Biochemistry	4	3
0501262	Immunology and Serology	4	4
0501265	Diagnostic Microbiology	4	4
0507262	Histopathological Techniques	4	3
0302200	Fundamentals of Innovation & Entrepreneurship	4	3
			17
0501372	Clinical Parasitology	5	3
0501359	Clinical Chemistry (1)	5	4
0501370	Hematology (1)	5	4
0501371	Phlebotomy Lab	5	1

0504252	Biostatistics	5	3
	University Elective (2)	5	3
			18
0501362	Hematology (2) and Coagulation	6	4
0501363	Pathology	6	3
0501364	Clinical Chemistry (2)	6	4
0501365	Blood Banking	6	3
0501366	Urinalysis and Body Fluids	6	2
			16
0500450	Introduction to Research	7	3
0501454	Practicum in Hematology	7	3
0501451	Practicum in Microbiology	7	3
0501452	Practicum in Serology	7	2
0501453	Lab Management and Quality Assurance	7	3
0204102	UAE Society	7	3
			17
0501460	Practicum in Clinical Chemistry	8	3
0501461	Practicum in Histopathology	8	2
0501463	Practicum in Blood Banking	8	3
0501463	Medical Virology	8	2
051464	Medical Mycology	8	2
0501465	Student Project	8	3
			15
	Total:		134

Tabelle 2: Modulübersicht Bachelor

There are two groups of elective courses for the Bachelor students to choose one course from each group.

Group A

0203100 Islamic Civilization

0602246 Human Rights in Islam & International Declarations
0201140 Intro. to Arabic Literature
0202130 French Language
0203102 History of the Arabian Gulf
0900107 History of Medical and Health Sciences
0710109 Arts and Medicine
0203200 History of Sciences among Muslims
0206102 Fundamentals of Islamic Education
0206103 Introduction to Psychology
0308150 Introduction to Economics (Non-B)
0308131 Personal Finance
0800107 Media in Modern Societies
0104130 Analytical Biography of the Prophet
0103103 Islamic System
0302150 Introduction to Business Administration for Non-Bus
0700310 Intro. to Islamic Art & Design

Group B

1430101 Astro & Space Sciences
0401142 Man and The Environment
1450100 Biology and Society
0505101 Fitness and Wellness
0507101 Health Awareness and Nutrition
0503101 Health and Safety
1502233 Artificial Intelligence

The following modules are invariably shared among all College of Health Sciences programs:

- Biology
- Human Anatomy and Physiology
- Introduction to Health Sciences

- Introduction to Research
- Biostatistics
- General Chemistry for HS
- Physics for Health Sciences.

Modules in the first year are common between the departments at the College of Health Sciences. The first year comprises essentials of health sciences including chemistry, biology, physics, human anatomy and physiology as well as Arabic, Islamic culture, English for medical sciences and IT. The goal of the first common year is to provide students with basic communication, critical thinking and problems solving skills, to foster the students' ethical values in research and presentation of materials as well as to enhance the students' ability to work independently or in teams.

These fundamental knowledge skills are assigned for additional specialized training in each discipline the following years. For example, histopathology techniques, molecular genetics, immunology and serology are taught in the second year. Meanwhile, parasitology, hematology and clinical chemistry are taught in the third year. In each of these domains, there is a stepwise transition in the curriculum from the basic courses to the most applied clinical courses. Therefore, general chemistry in the first year is followed by organic chemistry and biochemistry in the second year, finalized by two courses in clinical chemistry in the third year as well as hospital laboratory training in clinical chemistry in the final year.

Clinical training courses are an integral part of the curriculum. It spans over two semesters. In each semester, the students receive clinical training based on scheduled rotations in each of the following practicums: Serology, Histopathology, Blood Banking, Clinical Chemistry, Microbiology and Hematology in hospitals and healthcare settings. These rotations provide the students with substantive opportunities to reinforce and further develop the technical and behavioral skills needed in clinical laboratory settings under the supervision of both, the laboratory supervisors as well as the clinical faculty members. The clinical training manual can be found in Annex 02.

Furthermore, the training coordinator in the department is responsible for managing students' internships in terms of placement and agreement with training agencies. The coordinator also follows up on the technical issues with regards to

the quality of the experience and fulfillment of the training requirements. Once a student is registered in the internship program, he/she will have access to the students' internship e-portfolio. The MLS students submit a training portfolio in each of the practicum courses, which is a part of their clinical assessment. The effectiveness of the practical training program is evaluated in detail for each student via a series of visits, evaluation and verification reports submitted by the students, their practical training managers and evaluated by the practical training academic supervisor.

In the fourth year, two research-related courses are offered: "Introduction to Research" and "Student Project". While the introductory courses prepare the students to plan and develop the research proposal, the "Student Project" course includes refining the proposal, implementing the study and research report writing. An example of some recent student research projects can be found in SER 1.2.7. Students are divided into groups, where each group perform actual experimental research work in one of the major domains of MLS. The research is performed in one of the research labs at the research center (SIMR) and/or the central laboratories under close mentorship of the supervisor and senior researchers.

Master Study Program Medical Laboratory Sciences

The program comprises 12 modules, out of which two are elective ones (out of five).

There are between two and four modules in total provided for each semester. All modules have to be completed within one semester. The Master study program "Medical Laboratory Sciences" offers nine credit hours (CH) per semester. According to the University bylaws and regulations, the study load per student per semester ranges between a minimum of six credit hours, a maximum of 12 credit hours for full-time students and between three and six credit hours for part-time students. Full-time and part-time students study together in the same courses. Out of the 18 currently registered students, 17 of them study in full-time and 1 of them studies in part-time.

The list of modules offered in the Master study program "Medical Laboratory Sciences":

Nr.	Title	Sem.	CH
0501-611	Advanced Clinical Chemistry	1	3
0501-612	Microbial Pathogenesis	1	3
0501-613	Cytology and cytogenetics	1	3
			9
0501-614	Hematopathology	2	3
0501-615	Advanced Clinical Immunology	2	3
0501-617	Research Methods	2	2
0501-618	Graduate Seminar	2	1
			9
0501-621	Advanced Lab Techniques	3	3
0501-622	Sp. Topics in Lab Management§	3	3
	Elective Course	3	3
			9
0501-623	Research Project	4	6
	Elective Course	4	3
			9
	Total:		36

Tabelle 3: Modulübersicht Master

The following modules are offered as electives. They are offered as compulsory courses in the Master study program "Molecular Medicine".

- Biology and Genetics of Cancer Cells (3 Credit Hours)

- Biomedical Genomics (3 Credit Hours)
- Selected Topics in Cell Biology (3 Credit Hours)
- Bioinformatics (3 Credit Hours)
- Advanced Topics in Human Molecular Genetics (3 Credit Hours)

The first year of the Master study program “Medical Laboratory Sciences” is focused in giving advanced topics and cutting-edge knowledge in the major MLS specialties together with an introduction to research methods. In the second year, the students choose their elective courses, get advanced laboratory training and perform their graduation research project.

In the Master study program, no further clinical practice is offered as it is stated as an academic research program.

Within the Master study program “Medical Laboratory Sciences”, students must register for a “Research project” in the final semester. The project should exhibit competence in the research process by applying an existing body of knowledge in designing a proposal that requires laboratory experimental work in one of the major MLS subspecialties. Students are prepared for this in the courses “Research Methods” and “Graduation Seminars” in the second semesters followed by “Advanced lab techniques” in the third semester.

The “Research project” consists of 6 Credit Hours in which the students are expected to conduct independent scientific research under supervision of faculty members. Students are required to undertake an oral defense and submit a report of their project. The college of graduate studies provide workshops and webinars to students and supervisors on thesis supervision and guidelines related to academic work and integrity.

Judgement

The Bachelor study program as well as the Master study program “Medical Laboratory Sciences” have a course-based structure and a course-related examination system. Descriptions of the modules are embedded within the course syllabi for each program. The course syllabus contains information on the course code, the credit hours, pre-requisite(s), the semester and year, the instructors name as well as his or her phone number, office location, mail address and office hours, and the lecture times. Furthermore, the course description, the learning outcomes, the alignment of course student learning outcomes to program student learning outcomes and the weekly distribution of course topics/contents are

presented. Regarding the assessments, the assessment tools, the course outcome assessment plan, the teaching and learning resources and the attendance policy are described. Finally, a note on plagiarism and cheating is placed at the end. The experts value the detailed syllabus, which enables students to prepare adequately for the individual lectures as well as the scheduled examinations.

The combination and succession of the courses of the study program are consistent with the specified qualification objectives (described earlier). It is assured that students receive the support and guidance they need for the organization and accomplishment of assignments and the learning process in general. During the round of talks, the experts inquire about interdisciplinary taught modules, as the programs at the College of Health Sciences offer good opportunities for this in their estimations. The University reports that in the area of elective modules, students are sometimes taught together and partly complete the practical courses together using a mobile clinic. On the Master's level, interprofessional research education projects are implemented. Nevertheless, the experts see room for improvement related to interdisciplinary teaching and learning at the College of Health Sciences. The University agrees. The experts recommend that the curricula of the various study programs be reviewed in this regard.

The experts further inquire about the graduation project process. The teachers report that the graduation project is written in group work. A maximum of four students work together and present their scientific work in the form of a poster at the end. The experts recommend that the University considers examining the students individually in the form of a thesis to make it more internationally comparable. The experts also recommend that the University translate its internal credit hour system into the European Credit Transfer System and attach it as an appendix to the diploma to ensure international compatibility.

The arrangement of internships in the study programs allows acquisition of credits. During the interviews, the experts learned that the training coordinator in the department is responsible for managing students' internships in terms of placement and agreement with training agencies. The coordinator also follows up on the technical issues with regards to the quality of the experience and fulfillment of the training requirements. Once a student is registered in the internship program, he/she will have access to the students' internship e-portfolio. The students submit a training portfolio in each of the practicum courses, which is a

part of their clinical assessment. The effectiveness of the practical training program is evaluated in detail for each student via a series of visits, evaluation and verification reports submitted by the students, their practical training managers and evaluated by the practical training academic supervisor. The experts appreciate that supervisors from both the University and the clinic are assigned to oversee students during their clinical placements. The students confirm the support and good supervision during the internships.

The experts acknowledge the very detailed course files with its contents and aims, which allows a high level of transparency. In the experts' opinion, the structure of the curriculum seems to make the workload manageable- Nevertheless, the curriculum appears very detailed, consisting of many isolated courses and, therefore, a lot of examinations- Thus, the experts recommend revising the module manual and suggest combining some modules to reduce the number of examinations.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

4.3 Admission and Feasibility

Summary

The full admission requirements and any conditions for provisional admission for the undergraduate and postgraduate programs are published at the University's website.

Upon admission to University of Sharjah and prior to course registration, all admitted students must demonstrate a level of English proficiency consistent with the requirements of the College of Health Sciences. Students can choose one of the following exams for proof of proficiency:

- Paper-based TOEFL (minimum score 500)
- International TOEFL (minimum score 61)
- IELTS (minimum score 5.0)
- EmSAT (minimum score of 1225)
- PTE (minimum score of 42)

If the required score of English language skills is not met, students are assigned to the “Intensive English Language Program” (IEP). The program offers 20-25 hours per week of intensive English practice.

The programs apply the University’s internal credit hour system. Thus, students’ performance is evaluated based on the results of a Grade Point Average (GPA) and the Cumulative Grade Point Average (CGPA). GPA is calculated by dividing the sum of the grade points (with 4 being the best achievable grade and 0 being the worst) received in all courses registered during one semester by the total credit hours of the same courses. CGPA is calculated by dividing the total credits received from all courses a student has completed since joining the program by the sum of the credit hours of these courses. According to the University regulations, students with a GPA score of at least 2.00 are considered to have successfully completed the respective course. To successfully complete the whole program, students have to pass all obligatory examinations with the minimum grade of 2.00 CGPA score.

Bachelor Study Program Medical Laboratory Sciences

To be admitted to the “Medical Laboratory Sciences” Bachelor program, the following requirements must be fulfilled:

- Completion of secondary education or an equivalent level with the required average no earlier than three years prior to joining the University
- The applicant should not have been expelled from the UoS or any other institution for academic or disciplinary reasons.
- The applicant should be medically, physically and mentally fit to be admitted to the University with the desired major.

Master Study Program Medical Laboratory Sciences

To be admitted to the “Medical Laboratory Sciences” Master program, the following requirements must be fulfilled:

- The student must hold a bachelor’s degree from a recognized university with a minimum grade of good and a cGPA of 3.0. Students with a cGPA of 2.0 to 2.99 may be admitted conditionally provided that they register up to 6-9 credit hours in the first semester of their study and obtain a “B” average.
- The degree must be in a major that enables the student to study the master’s program and students from majors different from the master’s

program may be admitted upon the recommendation of the department and the college as well as the approval of the council and after studying the prerequisite courses assigned by the department.

- Attendance in the bachelor's degree must be not less than 75 % of the total hours required for graduation
- The student must obtain 550 points on the TOEFL test or 6 on the IELTS. A student may be admitted conditionally if he/she obtains 530 points or better on the TOEFL provided that the student enrolls in an English language course and receive a TOEFL score of 550 at the end of his/her first semester of study. The student will be expelled from the program if these two conditions are not met.
- The students must submit a letter of approval by his/her employer if he/she is employed.

Additionally, the department runs an interview of all applicants to ensure that they satisfy these criteria.

Judgement

The admission policies and procedures along with the requirements are properly documented and made publicly available. As the first year of study comprises medical foundations as well as basic communication, critical thinking and problems solving skills, the experts determine the admission procedure and requirements to be appropriate, as they correspond to the standards of the study programs.

The experts draw attention to the relatively high number of exams to be passed during both of the study programs. The University states that the system of midterm and final exams is determined by the government. In order to prepare students for the level of difficulty and volume of exams, the type as well as the time of the different examinations is defined and communicated to the students transparently through the course syllabus at the beginning of each course. The experts confirm that the University takes good measures to guarantee the feasibility of the study programs despite the high workload. The organization of the education process ensures the successful implementation of the study programs. The experts appreciate the fact that students with disabilities or chronic illness are offered compensatory measures when writing exams, such as extra time or writing the exam in another room.

On site, it became obvious that the teaching staff follows an "open-door-policy". In the first week of each year, students undergo an orientation which familiarizes

them with available support services and where the colleges and departments are introduced.

As another support mechanism, an academic advisor is responsible for a small number of students from the beginning of each semester. Students are supported through advisors, course coordinators or personal tutors with their registration process, selecting a study program, financial and personal issues and their performance during the semester. If the students have problems besides academic issue, a social support unit is installed at the University. The experts find the support services at the University to be exemplary and conducive to the health and success of the student body.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

4.4 Examination system and transparency

Summary

Most of the modules in the Bachelor and Master study program "Medical Laboratory Sciences" require two exams: The midterm and the final exam along with quizzes, assignments and class presentations as a part of continuous assessment.

All assessments and exams are directly linked to the course learning outcomes as well as the program learning outcomes. The following tools and methods are used for assessing the specific outcomes of the courses offered:

- Examinations (theoretical, laboratory, clinical),
- professional skills in laboratories,
- assignments and course work (group discussion/participation, quizzes, presentations),
- student projects,
- student graduation projects,
- clinical practice evaluations
- course evaluation by faculty
- course evaluation by student

The course syllabus must state the number and dates of exams to be given during the semester. The instructor is responsible for preparing clearly written and

properly weighted exam questions in the line with the course content, language of instruction, learning outcomes and allotted exam time stipulated in the course syllabus.

If a student misses the exam due to exigent circumstances beyond the student's control, the student may submit a petition to the dean of the concerned college. The dean will then inform the registration department to record an incomplete grade 'I' to the course. The student can take a make-up exam to replace the 'I' before the end of the add/drop period of the following semester.

The grading scheme is as follows:

%	Letters	Grade Point
90-100	A	4
85-89	B+	3.5
80-84	B	3
75-79	C+	2.5
70-74	C	2
65-69	D+	1.5
60-64	D	1
Below 60	F	0

The disability resource center sends departments and academic advisors' recommendations and also advises students with disability. These recommendations include duration of exams, translation services and extension of the due dates and times during exams, peer mentoring, use of adaptive technology, use of hearing aids and translation services as needed.

All information relevant to the programs offered at the department of Medical Laboratory Sciences are transparently published on the website of University of Sharjah.

Judgement

The University uses a continuous assessment process to ensure the quality of education for its students. The study programs have a course-related examination system. Its implementation, including the grading system, course load regulations, repetition of courses and exams is regulated and transparent for the students. The experts positively emphasize that the University has already established a well-functioning system of electronic examinations before the pandemic. From the experts' point of view, the examinations serve to determine whether the envisaged qualification objectives have been achieved. These examinations are focused on students' knowledge and competences. Nevertheless, in the experts' opinion, the

study program includes a very high number of exams which causes a high workload not only for students but also for the teaching staff. The transparent information of examination methods and of the examination schedule at the beginning of each term makes the high number of assessments during and at the end of each semester manageable. An examination can be repeated once. Students who cannot attend the test due to health issues or other unforeseen circumstances are allowed to take the test on another agreed day. If the examination is failed twice, students must redo the course in the following semester. Thus, the experts conclude that the examinations, although numerous, serve to determine whether the envisaged qualification objectives have been achieved or not and are focused on students' knowledge. The requirements to students' performance in examinations are regulated and published in the course syllabus. The frequency of examinations, as well as their organizations, is appropriate.

The University guarantees that students with disabilities or chronic illnesses receive compensation regarding time limits and formal requirements of the study process, as well as all final and course-related performance records.

Information concerning the study program, process of education, admission requirements and the compensation regulations for students with disabilities are documented and published on the website.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

4.5 Teaching staff and material equipment

Summary

Currently, the "Medical Laboratory Sciences" department has twelve faculty members (four professors, two assistant professors and six lecturers), five academic staff (four lab tutors and one clinical tutor) and one administrative assistant. The faculty members are all employed on a full-time basis.

The full teaching load hours of all regular academic staff members per week is 10 hours for professors, 12 hours for associate professors and for assistant professors, 15 hours for lecturers and 15 hours for instructors.

In the academic year 2021/2022, there were 25 students in the MLS Master program. Considering the number of the teaching staff, the faculty-to-student ratio is 1:4. For the Bachelor program, there were 308 students admitted in the MLS program. Therefore, the student-to-faculty ratio is 1:26.

The recruitment procedures and regulations are stated in the faculty handbook. In order to be appointed a professor, a person must:

- have spent at least ten years (or 15 years from someone outside the university) teaching in a recognized university since obtaining his or her PhD or an equivalent qualification,
- have occupied the rank of associate professor for at least five years in a recognized university insider or outside the country,
- have conducted and published as an associate professor research in his field of specialization in refereed journals.

In order to be appointed as an associate professor, a person must:

- hold a PhD or an equivalent qualification from a recognized university and must have held the position of an assistant professor for at least five years (or eight years from someone outside the university),
- have conducted research in his or her specialization

Assistant professors must at least hold a PhD title. Lecturers must at least hold a Master's degree.

The University supports the teaching staff and encourages them to continue seeking development through arranging different activities. The strategic planning office is applying key performance indicators for each faculty requiring each faculty to at least 15 activities until the middle of the year. These activities are considered part of the faculty evaluation during contract renewal. Examples of services and activities organized by the University are:

- workshops in e-teaching through the center for educational leadership,
- IT workshops on how to use blackboard, zoom, and MS teams,
- students' advising workshops for the new faculty,
- encouraging faculty participation in different self-development activities abroad,
- workshops and training sessions in areas of specialization,
- allocating a budget for attending workshops, conferences and training programs.

The central laboratories have been established in 1997 in order to become the core location for practical experiments, training and research related to applied medical sciences. The central labs directorate which belongs to the deanship of academic support services is the administrative unit responsible for operating and managing the central labs. The central labs directorate duties include space management, purchasing new lab equipment, chemicals, tools and consumables, centralized lab utilities, equipment maintenance and asset management, sharing lab equipment between different programs, store services and lab safety management (SER 2.3.1).

The following laboratories are implemented for the “Medical Laboratory Sciences” programs:

Building #	Lab Name	Type (Teaching/Research)	Lab Description
W12-031	Hematology Clinical Chemistry Biochemistry Labs	Teaching	Clinical Chemistry 1 &2 Biochemistry, and Hematology I labs
W12-035	Biology Lab	Teaching	Biology, Blood Banking, Hematology 2 labs
W12-141	Microbiology Lab	Teaching	General Microbiology, Diagnostic Microbiology, and Medical Microbiology labs
W12-145	Histology Parasitology Histopathological Techniques Lab	Teaching	Histology, Histopathological Techniques, Clinical Parasitology, Urinalysis and Body Fluids labs
W12-205	Human Anatomy and Physiology Lab	Teaching	Human Anatomy and Physiology labs
W12-227	Molecular Genetics and Immunology Lab	Teaching and Research	Molecular Genetics, Phlebotomy, Immunology and Serology, and MLS Research Labs

The library homepage acts as a portal to all library resources and research tools. The UOS libraries have access to 136 online databases in various disciplines. The library has developed a dedicated program to keep faculty and students aware of the latest information resources acquired by the library and to enable students to search, find, retrieve, evaluate and make efficient use of resource.

The opening hours are as follows:

Library	Monday - Thursday	Friday	Saturday - Sunday
Men M16	8:00 AM - 12:00 AM	Closed	9:00 AM - 10:00 PM
Medical M26	8:00 AM - 12:00 AM	Closed	9:00 AM - 10:00 PM
Women W16	8:00 AM - 8:00 PM	Closed	9:00 AM - 8:00 PM
Fine Arts M22	7:30 AM - 3:30 PM	Closed	Closed

The information technology center offers two types of support for faculty and students (SER 2.3.3). The department of academic computing services provides support for faculty members on how to effectively use technology in the teaching and learning process. This includes instructional support using the blackboard system as well as support for using classroom technologies.

The research funding department (RFD) is responsible for pre-awards and post awards administration of research projects' funds. The department provides support to faculty, students' research projects and research group as it facilitates the procurement of research funding and publication of research works. The department processes internal and external research funding to ensure compliance with the University bylaws and regulations and manages the processing of approved research projects including purchasing and the reallocation of funds (SER 2.3.4).

Judgement

New teaching staff is thoroughly briefed about the programs and their teaching responsibilities before they start teaching. The institute of leadership in higher education (ILHE) has delivered a series of interactive training and workshops to keep the faculty of the University of Sharjah up to date with current pedagogical and educational teaching methodologies and technology that can help them in enhance the learning experience of students in face-to-face as well as hybrid/hyflex sessions. Students evaluate the performance of all teaching staff periodically.

Overall, the teaching and academic staff of the College of Health Sciences at University of Sharjah shows a very high level of commitment and potential for the execution as well as further development of the study programs they are responsible for. The expert group concludes that there is a strong corporate identity and positive group dynamics among the University and the faculty administration. As motivations to teach at the University of Sharjah, the faculty

cites the university's good reputation, good working atmosphere, safe working environment, and support mechanisms related to research and academic development.

The experts find the amount of human resources allocated to the program to be sufficient to carry out its functions. The teaching staff is highly qualified. The teaching staff within the Bachelor as well as the Master study program "Medical Laboratory Sciences" is in possession of academic and technical credentials and experience adequate to their tasks.

The University informs its employees about opportunities for personal and professional development transparently, and actively encourages their participation in workshops, training courses and conferences intended to improve their abilities, which is confirmed during the talks with the staff on site.

The experts visited the premises of the College of Health Sciences as well as the central laboratory building, where the skills labs of the Bachelor and Master study program "Medical Laboratory Sciences" are located. The skills labs are equipped with all relevant technology devices. From the experts' point of view, the quality of the laboratories and clinical areas used to train students in the programs are sufficient. Additionally, the experts were shown around the Research Institute of Medical & Health Sciences at the University of Sharjah, which was established in 2015. This institute supports more than 170 faculties and young researchers. According to the experts, the institute incorporates state of the art lab facilities with very good research equipment. The research groups focus on transnational biomedical research on areas including cancer, chronic inflammatory diseases, immunological disorders, genetic disorders, diabetes, drug discovery, neuro-pharmacology, and toxicology; in addition to public health and other research areas of local and regional interest.

Furthermore, some of the experts were able to visit the university hospital of Sharjah, which is located on the campus. The experts are convinced that the hospital is well equipped in terms of personnel and, especially, equipment. The hospital operates independently, the students only practice here via internships, just like with other cooperating hospitals. Both the teachers and the students would like to have their "own" teaching hospital. The evaluators also see this as a great opportunity to promote the practical skills and abilities of the students outside of the skills labs and even before the internship. Therefore, they

recommend that the University reviews the extent to which cooperation with the hospital on campus can be intensified.

As a whole, it was ascertained by the experts that the Bachelor as well as the Master study program "Medical Laboratory Sciences" has ample teaching facilities at its disposals. During the round of talks, the experts learned that the financial support for open access publications could be strengthened, as the fees sometimes have to be privately financed. The experts recommend that these costs be paid by the University.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

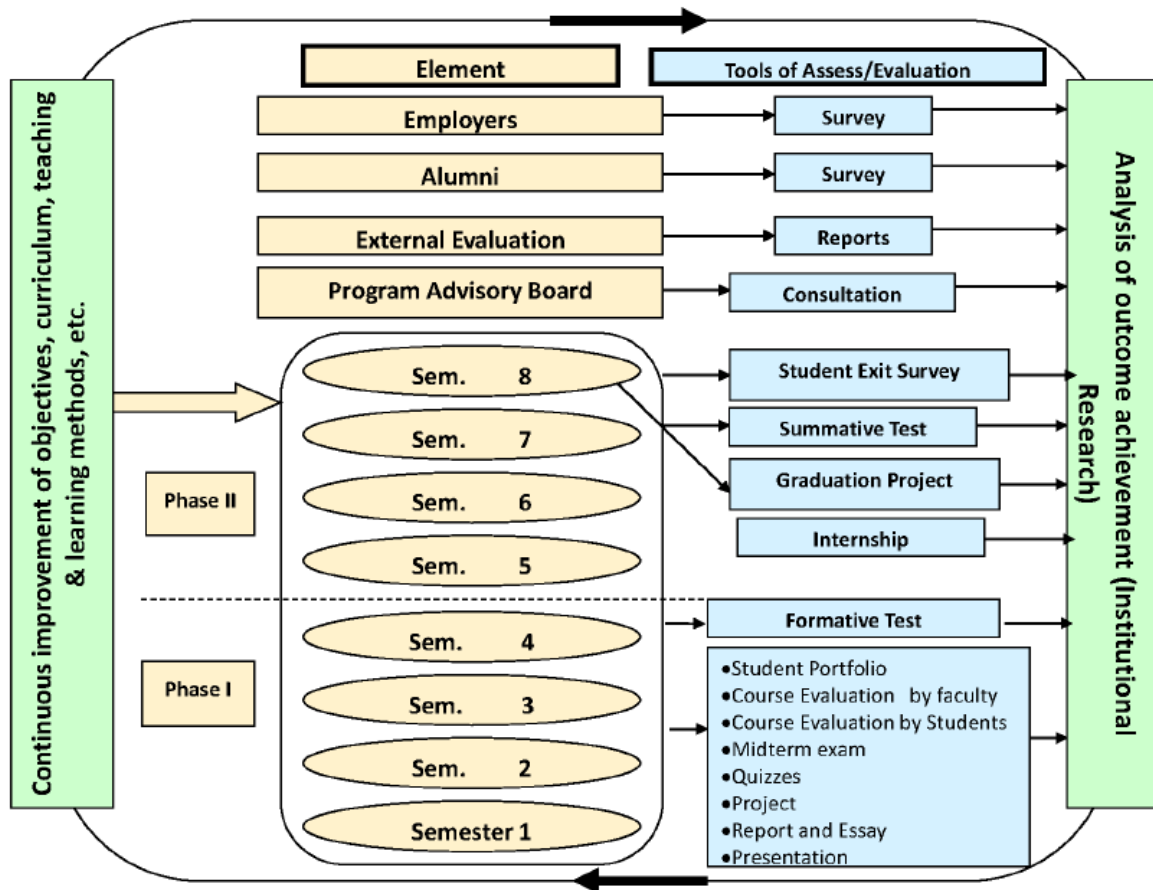
4.6 Quality assurance

Summary

The deanship of quality assurance, institutional effectiveness and accreditation is the central body to coordinate and control all related activities throughout the university. The deanship supervises, assesses and plan issued related to institutional research, institutional effectiveness, accreditation and professional development by dealing, amongst others, with the following responsibilities (SER 1.6.1):

- Coordination and preparation for national and international accreditation,
- design and update evaluation and assessment methods appropriate for each category of programs and verify all development plans,
- ensure that all existing and planned curricula meet the required standards and have well defined outcomes,
- prepare progress reports at all levels and periodically review and evaluate the implementation of the strategic plan and directions.

The following processes are implemented:



The course instructors/coordinator reflect on the course level data, such as grade distribution, student feedback, faculty feedback as well as performance of teaching and learning to make improvement recommendations for the course. The chairperson/program coordinator revises the course e-files, uses the recommendations status report and reflects on the program level data such as cohort analyses, grade distribution, student feedback, faculty feedback, advisory board and external evaluator feedback.

The department of Medical Laboratory Sciences implements routine evaluation of the Bachelor study program and its constituent courses. Therefore, the following surveys are used (SER 1.6.2):

- course experience survey,
- senior exit survey,
- alumni survey,
- student satisfaction survey,
- fresh student's survey,
- faculty satisfaction survey.

For the evaluation of the practical relevance of the study program, the alumni survey and senior exit survey are used.

At the University of Sharjah, different support mechanisms are implemented. The colleges and departments have mechanisms in place to deal with students who have the need to improve academically. New students are provided with an orientation program in which, every student is assigned to an academic advisor. The academic advisor helps with the course selection, academic planning and orientation. The advisors also assist students in making changes to their courses during add/drop periods and may recommend dropping, adding, changing and/or repeating courses. Advisors may discuss special circumstances and personal issues affecting their students and offer guidance. The Department Council also discusses special students' progress issues. Special requests received from students (regarding registration, progress, and special circumstances) are evaluated by the advisor and an appropriate suggestion is made, the requests are then sent through the College to the University's Students Affairs Committee for further evaluation.

In addition, students under probation are assigned academic advisors to follow-up on students' progress during their studies, identify problems they could be facing and advise them of ways to rectify such problems. Besides this, the department assigned one senior faculty member over the last four years to serve as an advisor/mentor for students under academic probation. Furthermore, the deanship of student affairs has the students counseling department with the mission of developing the student's balanced personality at the psychological, social, emotional and mental or skills level (SER 1.6.8).

The enrollment statistics can be seen in SER 1.6.6.

Judgement

From the experts' point of view, the University has a well-structured system of quality assurance spread across all of its units. The University has developed and documented a concept of quality assurance in the education process, teaching and research, which serves as the basis for the quality-oriented development and implementation of the study programs "Medical Laboratory Sciences".

The experts were granted access to the electronic administration system of the study programs. Here the feedback loops are closed by presenting evaluation results and action plans. The whole system is designed centrally, but all faculties

have access and are obligated to update their own material. The experts are impressed by the wealth and detail of information and reports available there. Nevertheless, the experts recommend checking again where process flows can be streamlined. The staff reports that sometimes the same information has to be made available in different formats for different responsibilities, which costs a lot of time. It might also be helpful to have one administrative employee per department who is responsible for keeping the system up to date.

The results of the internal quality assurance management are applied for the continuous development of the study program. In doing so, the University takes into close consideration the quality evaluation results as well as the analyses of students' workload, their academic accomplishments and feedback from graduates. The experts appreciate that regularly meetings on different levels are held to improve the study programs.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

4.7 Gender equality and equal opportunities

Summary

The University of Sharjah admits academically qualified and morally sound students irrespectively of their national origin, color, gender, religion or disability.

At the University of Sharjah, a Disability Resource Center was established as an independent center concerned with people with disabilities' affairs. The Center is intended to be a source of support for people with disabilities, which assumes the responsibility of inclusion, integration and empowerment. To achieve this goal, the Center employs a comprehensive and integrated work system that takes care of people with disabilities from the time of their environment in the University and continues well beyond their graduation. To create an attractive, inclusive, sustainable and accessible environment that provides full outreach to people with disabilities at the University.

The "Medical Laboratory Sciences" department is inclusive and accepts as well as accommodates all students, unless the disability or chronical illness jeopardizes the clinical practice safety and affects the ability of the student to complete the program requirements.

Judgement

The University demonstrates its commitment to the provision of equal opportunities for all students and shows openness for diversity and social developments.

The experts take positive note of the fact that actual cases of dealing with students with disabilities or chronic illnesses could be named in the discussions. Overall, the experts conclude that the University's actions on the provision of gender equality and promotion of equal opportunities for students with particular living circumstances are implemented in a transparent manner.

Decision

From the experts' point of view, the requirements of this criterion are fulfilled.

5 Conclusion

Overall, the experts were impressed and highlight the strong commitment and engagement demonstrated by all levels of the University of Sharjah. The student-centered philosophy of the University is highly appreciated, as students are treated with care and respect. The structure of the Bachelor and Master programs "Medical Laboratory Sciences" are clear, with a good balance between theoretical, practical, and clinical work. The programs follow both national and international requirements and use modern learning techniques to create a well-rounded curriculum. Although mobility opportunities are available, they are not very frequently used at this time. The University should continue to focus on internationalization and mobility for students and staff. The examination system is well-regulated and fair, with a variety of tools available to assess student progress. The staff is highly qualified and there is a good balance between research and teaching. The quality assurance system in place is robust. Evaluation results are used to make changes, and the monitoring system on the program level is a useful tool. The University should periodically reevaluate the QA system to make it as lean as possible and retain only essential processes. The institution has non-discriminatory practices in place for admission and promotes gender equality.

Based on the information from written documents and the results of the on-site visit, the experts concluded that the Bachelor study program "Medical Laboratory

Sciences” as well as the Master study program “Medical Laboratory Sciences” offered at the University of Sharjah fulfil the above-described criteria. Hence, the experts recommended that the Accreditation Commission of AHPGS make a positive decision regarding the accreditation of the study program.

For the continuous development of the study programs, the experts have outlined the following recommendations:

- The University should continue to focus on internationalization and mobility for student and staff.
- The University should review the curricula of the various study programs at the College of Health Sciences in regard to possibilities for interdisciplinary teaching and learning.
- The University should consider examining the students individually in the form of a thesis in order to make it more internationally comparable.
- The University should translate its internal credit hour system into the European Credit Transfer System and attach it as an appendix to the diploma to ensure international compatibility.
- The experts recommend revising the module manual and suggest combining some modules to reduce the number of examinations.
- The University should check again the electronical quality assurance system regarding to where process flows can be streamlined. It might also be helpful to have one administrative employee per department who is responsible for keeping the system up to date.
- In order to further accommodate research efforts and also international competition, the experts recommend strengthening the research component in the Master's program, by, for example, crediting the graduation project with more CH.
- The University should pay for the Open Access publication fees.

6 Decision of the accreditation commission

Decision of the accreditation commission of May 4th, 2023

Bachelor Study Program Medical Laboratory Sciences

This resolution of the Accreditation Commission of the AHPGS is based on the application, as well as the expert review and the on-site visit covered in the expert report.

The on-site visit of University of Sharjah took place on January 23 and 24, 2023 according to the previously agreed-upon schedule.

The accreditation decision is based on the "Accreditation Criteria for International Program Accreditation" which have been developed in close accordance with the "Standards and Guidelines for Quality Assurance in the European Higher Education Area" (ESG), established by the European Association for Quality Assurance in Higher Education (ENQA).

The Accreditation Commission of the AHPGS discussed the procedural documents and the vote of the expert group as well as the response opinion of the University of Sharjah.

The regulated study period in the Bachelor study program "Medical Laboratory Sciences" is four years / eight semesters. The study program requires the obtainment of 134 credit hours (CH) according to the internal credit hour system. The study program consists of 43 courses out of which six are university requirements, seven are college requirements and 30 are program requirements. The language of instruction is English. The Bachelor study program "Medical Laboratory Sciences" is completed with awarding of the academic degree "Bachelor of Science". Admissions take place every fall and spring semester. The first batch of students was admitted to the study program in the academic year 1998/1999.

The Accreditation Commission of the AHPGS considers that all Accreditation Criteria are fulfilled and adopts the following decision:

The Bachelor study program "Medical Laboratory Sciences" is accredited for the duration of five years, until September 30, 2028.

For further development and enhancement of the study program, as well as of the University as a whole, the Accreditation Commission of the AHPGS supports the recommendation articulated in the expert report.

Master Study Program Medical Laboratory Sciences

This resolution of the Accreditation Commission of the AHPGS is based on the application, as well as the expert review and the on-site visit covered in the expert report.

The on-site visit of University of Sharjah took place on January 23 and 24, 2023 according to the previously agreed-upon schedule.

The accreditation decision is based on the “Accreditation Criteria for International Program Accreditation” which have been developed in close accordance with the “Standards and Guidelines for Quality Assurance in the European Higher Education Area” (ESG), established by the European Association for Quality Assurance in Higher Education (ENQA).

The Accreditation Commission of the AHPGS discussed the procedural documents and the vote of the expert group as well as the response opinion of the University of Sharjah.

The regulated study period in the Master study program “Medical Laboratory Sciences” is four semesters in full-time and six semesters in part-time. The study program requires the obtainment of 36 credit hours (CH) according to the internal credit hour system. The study program consists of 12 courses out of which two out of four are elective ones. The language of instruction is English. The Master study program “Medical Laboratory Sciences” is completed with awarding of the academic degree “Master of Science”. Admissions take place every fall semester. The first batch of students was admitted to the study program in the academic year 2019/2020.

The Accreditation Commission of the AHPGS considers that all Accreditation Criteria are fulfilled and adopts the following decision:

The Master study program “Medical Laboratory Sciences” is accredited for the duration of five years, until September 30, 2028.

For further development and enhancement of the study program, as well as of the University as a whole, the Accreditation Commission of the AHPGS supports the recommendation articulated in the expert report.