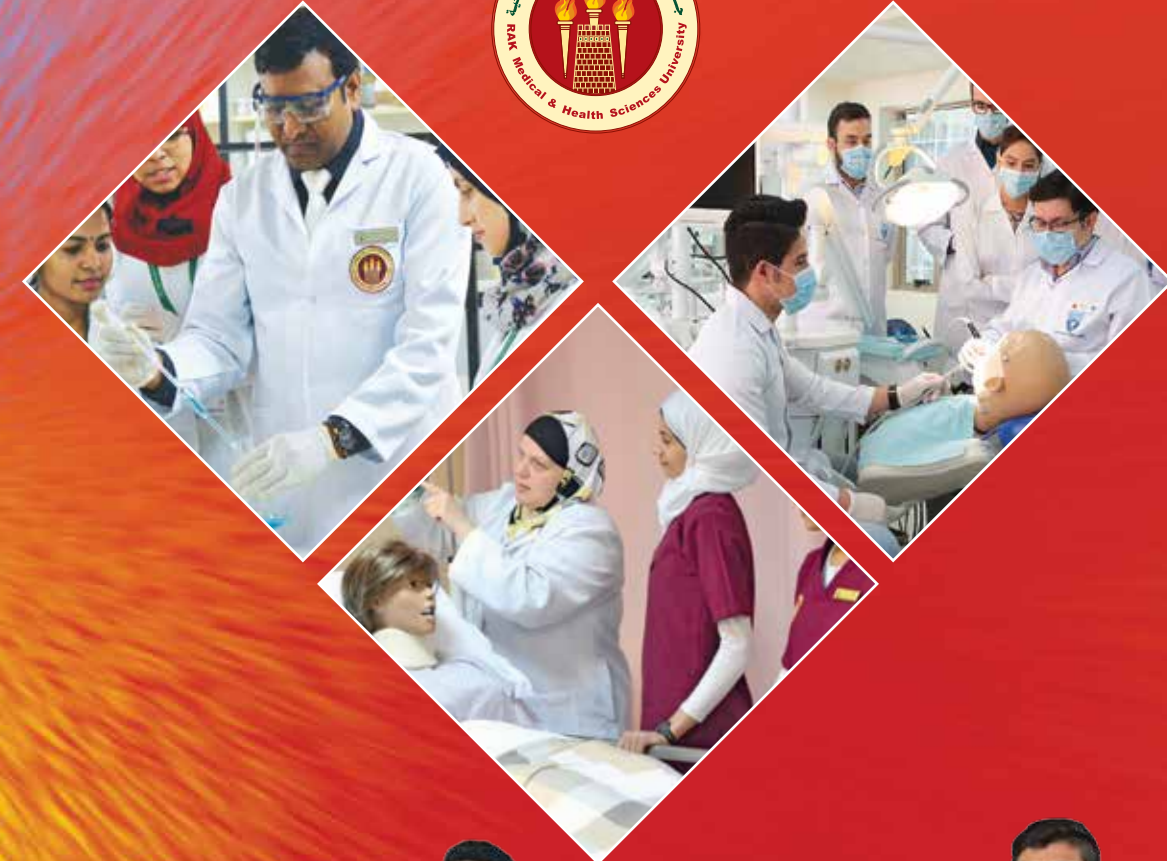




CATALOG-UNDERGRADUATE 2021 - 2022





H.H. Sheikh Saud Bin Saqr Al Qassimi

Ruler of Ras Al Khaimah and Supreme Council Member
United Arab Emirates

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CATALOG- UNDERGRADUATE 2021 - 2022

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PRESIDENT'S MESSAGE

Dear Students

Congratulations and Welcome to RAK Medical & Health Sciences University (RAKMHSU), a Government of Ras Al Khaimah institution. I also welcome our returning students who will be commencing the new academic year with their respective Constituent Colleges.

RAK Medical and Health Sciences University (RAKMHSU) has been set up under the visionary leadership of His Highness Sheikh Saud Bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah. The aim of His Highness Sheikh Saud Bin Saqr Al Qasimi, Ruler of Ras Al Khaimah and Supreme Council Member, United Arab Emirates was not just to build schools or colleges, but to lay a foundation for an educational infrastructure, which will serve as a platform for global institutions to provide world class training to the students across the region. His message was clear "we need to encourage excellence in our schools now more than ever". RAKMHSU has been maintaining absolute honesty and transparency in its functioning, in addition to relentless march towards excellence with an issue based functioning.

RAK Medical & Health Sciences University started as a First Comprehensive Health Science University in UAE in the year 2006. The MBBS Program was introduced in the Academic Year 2006 and Bachelor of Dental Surgery (BDS), Bachelor of Pharmacy (B Pharm) and Bachelor of Nursing (BSN) were added in the year 2007. Further, the Bridge Program for BSN (RN-BSN) was added to our list from the Academic Year 2008-09. It is also a matter of pride for RAKMHSU for being the First in UAE to start two year Masters Programs in Nursing and Pharmacy.

Now, in addition to the Master of Science in Nursing (MSN) - Specialty Adult Health Nursing and MS in Clinical

Pharmacy, we also have MSN- Specialties Pediatric Nursing, Community Health Nursing, Psychiatric-Mental Health Nursing, MS in Pharmaceutical Chemistry and MS in Pharmaceutics programs after due accreditation. One more master's program was added in year 2020-2021 Master of Science in Midwifery, which is also the first program in UAE. All the Undergraduate and Graduate programs have received the renewal of accreditation from the Commission for Academic Accreditation (CAA), Ministry of Education - Higher Education Affairs, UAE.

RAKMHSU is providing a favorable ambience for learning and in the process establish the legacy of academic quality. Our Medical and Health Science professional training has been unique in several aspects and matching with the International Standards. Our Faculty-Student ratio of 1:7 is also contributing significantly for the one to one interaction of the students with the faculty. Thanks to the faculty and the students, RAKMHSU has established itself as one of the foremost Universities in the region and is considered as a credible destination for Health Science Education. RAKMHSU envisages further growth by establishing more and more Masters Programs not only in Nursing and Pharmacy, but also in the Medical and Dental programs. It is a matter of great satisfaction to see our students excelling not only in academics but also in other co-curricular and extracurricular activities bringing laurels to RAKMHSU! In fact, our students who have pursued their higher education in countries like UK, USA, Australia, India, Germany, etc., are excelling in their chosen field. Further, more than 600 Nursing Graduates, 50% of which are Nationals, are serving this country after their graduation.

RAKMHSU shall strive to kindle in each student the lifelong desire and expertise of seeking and utilizing new information in the pursuit of the solutions to health problems and educating those in need of healthcare. We hope that every individual who is part of a larger healthcare team, practices every skill with empathy and effective utilization of healthcare resources for the benefit of the society.

No doubt, the COVID has thrown up several challenges. I congratulate all our faculty and students who got adjusted with all the modifications, On-line teaching and assessment. We are also very proud of our students who have worked as Volunteers and Front-line Warriors.

This Catalog provides the students with an in-depth and broad guidelines of the University's Admission policies, Examination policies, Student policies, financial information and Academic aspects of the respective programs.

The Catalog also focuses on furnishing the details of RAKMHSU Vision, Mission, Core Values and Functions, Licensure and Accreditation status of the University and constituent Colleges, the structure of the University, the Memorandum of Understandings with different institutions/organizations both national and international, and the University state of art facilities.

Every student should be well versed with all the guidelines incorporated in the Catalog and other University publications relevant to students and academic programs. We look forward to facilitate you to become outstanding leaders in Healthcare Profession.

Welcome to RAKMHSU - Your New Alma Mater.

Dr. S Gurumadhva Rao



President

1. RAKMHSU Academic Calendar 2021-2022

	Weeks	From	To	Description
F A L L S E M E S T E R	1	29-Aug-21	02-Sep-21	29th Aug - First day for Existing students; Registration and Orientation for all Programs 30th Aug - Regular Teaching Starts for Existing Students - All Programs
	2	05-Sep-21	09-Sep-21	05th-06th Sep - Freshmen registration and Orientation for All programs (Including Masters) 05th Sep - Last day for Add/Drop 07th Sep - Year 1 Regular Teaching Starts
	3	12-Sep-21	16-Sep-21	Suggested week for Placement Test (English)
	4	19-Sep-21	23-Sep-21	Suggested week for Placement Test (Arabic) 23rd Sep - Last day for withdrawal from Fall semester 25th Sep - World Pharmacists Day
	5	26-Sep-21	30-Sep-21	End Rotation exam for MBBS Year 3,4 & 5
	6	03-Oct-21	07-Oct-21	Fresher's Week, Sports Competitions 7th Oct - Fresher's Day (3.30pm -5.00pm)
	7	10-Oct-21	14-Oct-21	Teaching Week / Written Test - B.Pharm 13th & 14th Oct - Convocation Day
	8	17-Oct-21	21-Oct-21	20th Oct - RAKMHSU Mental Health Day 20th Oct - Fresher's Day (3.30pm -5.00pm) 21st Oct - Prophet's Birthday
	9	24-Oct-21	28-Oct-21	Continuous Assessment (Fall Semester) for BDS/B.Pharm (Theory)/ MSN/MS Programs 28th Oct - Book Fair
	10	31-Oct-21	04-Nov-21	3rd Nov- Flag Day End Rotation exam for MBBS Year 3,4 & 5 Continuous Assessment for BDS (Annual Course)
	11	07-Nov-21	11-Nov-21	10th Nov - Career Fair (Afternoon)
	12	14-Nov-21	18-Nov-21	Teaching Week / Written Test - B.Pharm 12th Sports Festival
	13	21-Nov-21	25-Nov-21	24th Nov - National Day Celebration
	14	28-Nov-21	02-Dec-21	01st Dec - Commemoration Day 02nd & 03rd Dec - UAE National Day 02nd Dec - Submission of End Semester question papers
	15	05-Dec-21	09-Dec-21	End Rotation exam for MBBS Year 3,4 & 5 Continuous Assessment for BSN/RNBSN End Semester Practical Exams for B.Pharm / MS Programs
	16	12-Dec-21	16-Dec-21	End Semester Practical Exam for B.Pharm / MS Program Period for Continuous Assessment for MBBS Clinical Year/BSN & RNBSN
		19-Dec-21	23-Dec-21	Winter Break for Students CEDAR - Faculty Development Week
		26-Dec-21	30-Dec-21	Winter Break for Students CEDAR - Faculty Development Week
	17	02-Jan-22	06-Jan-22	02nd Jan - Classes resume after Winter Break 03rd Jan - Last day for Submission of CA marks and attendance for Semester courses Revision / Makeup Exam / End Semester Examination for Fall Semester Courses
	18	09-Jan-22	13-Jan-22	End Semester Examination for Fall Semester (BDS/B.Pharm/BSN/RNBSN & Masters')
	19	16-Jan-22	20-Jan-22	End Semester Examination for Fall Semester Contd... 20th Jan - Awards Day (2.30 pm onwards)

S P R I N G S E M E S T E R	1	23-Jan-22	27-Jan-22	23rd Jan - Spring Semester Begins for all programs 23rd - Orientation for Spring Admission 23th Jan - Last day for Add/Drop
	2	30-Jan-22	03-Feb-22	30th Jan - Last day for withdrawal from Spring semester End Rotation exam for MBBS Year 3,4 & 5
	3	06-Feb-22	10-Feb-22	6th to 10th Feb, 2021 (Champion Sports Competitions)
	4	13-Feb-22	17-Feb-22	16th Feb - 12th Cultural Day (Full day activity)
	5	20-Feb-22	24-Feb-22	22-24 Feb - DUPHAT -2021 Suggested week for Mock fire Drill
	6	27-Feb-22	03-Mar-22	Community Engagement Activities Continuous Assessment for BDS 2nd Mar - Mini Marathon
	7	06-Mar-22	10-Mar-22	Continuous Assessment for BDS (Spring Course) Teaching Week / Written Test for B.Pharm End Rotation exam for MBBS Year 3,4 & 5 08th March -UAE National Sports Day 10th March - 12th Student Scientific Conference
	8	13-Mar-22	17-Mar-22	Period for Continuous Assessment for BDS/MBBS Clinical Year/BSN / RNBSN & MSN Continuous Assessment for B.Pharm (Theory) / BSN/RNBSN/MS Programs
	9	20-Mar-22	24-Mar-22	Continuous Assessment for MBBS Year 5 Continuous Assessment for B.Pharm (Theory) / BSN/RNBSN/MS Programs
		27-Mar-22	31-Mar-22	Spring Break for Students (Except Clinical Year 3/4/5 Students) CEDAR - Faculty Development Week Repeat 1 Examination for Fall Semester courses
		03-Apr-22	07-Apr-22	Spring Break for Students CEDAR - Faculty Development Week
	10	10-Apr-22	14-Apr-22	10th Apr - Classes resume after Spring Break
	11	17-Apr-22	21-Apr-22	Teaching Week /Written Test for B.Pharm Campus Interviews Activity Clubs Events
	12	24-Apr-22	28-Apr-22	End Rotation exam for MBBS Year 3,4 & 5
	13	01-May-22	05-May-22	1st May -5th May - Eid al-Fitr* Revision/Study Break/Makeup Exam End Semester Practical Examination for B.Pharm
	14	08-May-22	12-May-22	08th May - Last day for submission of End Year Questions Revision/Study Break/Makeup Exam International Nurses Week
	15	15-May-22	19-May-22	MBBS Year 5 - End Year Exam starts
	16	22-May-22	26-May-22	End Year Examinations for all programs
	17	29-May-22	02-Jun-22	End Year Examinations for all programs
	18	05-Jun-22	09-Jun-22	End Year Examinations for all programs
	19	12-Jun-22	16-Jun-22	12th June - IFOM Basic Sciences Exam 14th June - Announcement of Results 15th June - Issue of Provisional Certificate / Transcript 19th Annual vacation begins
★	Holidays for Eid Al Fitr is on 29 Ramadam to 3 Shawwal and for Arafah Day and Eid Al Adha on 9 to 12 Dhu Al Hijjah. Islamic holidays are tentative and are subject to change.			
★	The semester(s)/academic period may be extended, in the event of loss of teaching days due to any unscheduled closing or holidays and any future directives by the Ministry of Education.			
★	End Semester/Year Examinations may be scheduled giving at least a daybreak but not for Continuous Assessments /Repeat exams, examinations can also be planned on Saturdays/Holidays.			
★	Provisionally Remedial 1 / Repeat1 Examinations (Spring Semester) will be held in July 2022.			
★	Provisionally Remedial 2 / Repeat 2 Examinations (Fall & Spring Semester) will be held in August 2022.			

2. Brief History of RAKMHSU

RAK Medical and Health Sciences University (RAKMHSU) has been set up under the visionary leadership of His Highness Sheikh Saud Bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah. Now, RAKMHSU is completely owned and managed by RAK Government.

RAK Medical and Health Sciences University was granted the initial licensure and initial accreditation for MBBS in July 2006. Classes for the first intake of students to the MBBS program were started in October 2006. The undergraduate programs in Dentistry, Pharmacy and Nursing were started from September 2007 after obtaining initial accreditation from the Commission for Academic Accreditation (CAA) under the Ministry of Higher Education and Scientific Research. The Registered Nurse-Bachelor of Science in Nursing Bridge program was started in September 2008. RAKMHSU was the first University in the UAE to start Master of Science program in Nursing from 2011 and two Master of Science programs in Clinical Pharmacy and Pharmaceutical Chemistry 2012. MS in Pharmaceutics commenced in the academic year 2014-2015 with initial accreditation. Now, in addition to the Master of Science in Nursing (MSN) - Specialty Adult Health Nursing and MS in Clinical Pharmacy, we also have MSN- Specialties Pediatric Nursing, Community Health Nursing, Psychiatric-Mental Health Nursing, MS in Pharmaceutical Chemistry and MS in Pharmaceutics programs after due accreditation. One more master's program was added in year 2020-2021 Master of Science in Midwifery, which is also the first program in UAE. All the Undergraduate and Graduate programs have received the renewal of accreditation from the Commission for Academic Accreditation (CAA), Ministry of Education - Higher Education Affairs, UAE.

1.2 Present Campus

RAKMHSU initially commenced its operations from the campus at Burairat. In February 2009, RAKMHSU moved to its permanent campus, adjoining Sheikh Saqr Hospital and RAK Hospital in Ras Al Khaimah, with state-of-the-art facilities for a quality Health Science programs, including lecture halls, faculty rooms, multipurpose laboratories, skills laboratories, anatomy dissection hall, library, student's center and administrative offices.

RAKMHSU is very proud to have all the state-of-art facilities for a quality Health Science Programs. Further, two independent buildings for both Nursing and Pharmacy Colleges in addition to a Sports Complex are fully functional. The RAK College of Dental Sciences, FZC, Ras Al Khaimah, in collaboration with RIPAH International, Pakistan, which sponsors, RAK College of Dental Sciences has its own independent state-of-art building equipped with ultra-modern dental facilities.

With the addition of state-of-art infrastructure, RAKMHSU has taken one more significant step towards International Standards.

Constituent Colleges and their Programs :

The University comprises of the following constituent college, through which all the programs are offered:

- RAK College of Medical Sciences (MBBS program)
- RAK College of Dental Sciences (BDS program)
- RAK College of Pharmaceutical Sciences (B.Pharm, MS in Clinical Pharmacy, Pharmaceutical Chemistry and Pharmaceutics.
- RAK College of Nursing (BSN, RN-BSN Bridge program and MSN program: Specialties -Adult Health Nursing, Pediatric Nursing, Community Health Nursing and Psychiatric Mental Health Nursing) & Master of Science in Midwifery

3. RAKMHSU Vision, Mission, Core Values and Functions

3.1 Vision

To be a leading medical and health sciences University in the UAE dedicated to the pursuit of academic excellence by fostering, disseminating and applying knowledge and intellectual values to ensure an enriching future for the student community and preparing them to join the medical and health sciences field of the 21st Century.

3.2 Mission

RAK Medical and Health Sciences University is committed, through its offering of academic programs in the medical and health sciences fields, to prepare both Undergraduates and Graduates of either sex and of all Nationalities in developing critical practice skills and latest knowledge. This will equip them with knowledge, practical and clinical skills and enabling them to make a valuable contribution to patient and health care as individuals and as responsible members of society for the communities of not only Ras Al Khaimah, but also UAE along with the neighboring Gulf countries. The University is also committed to contributing to the advancement of knowledge through its support for research conducted by its faculty and students, and the promotion of lifelong learning bound by ethical clinical practice.

3.3 Core Values

RAKMHSU's eight values underpin the way in which it conducts all of its activities and contribute to the achievement of its Vision and Mission.

- 1) Collegiality
- 2) Honesty and Integrity
- 3) Equity
- 4) Agility
- 5) Excellence
- 6) Student Centricity
- 7) Lifelong Learning
- 8) Innovation

3.4 Functions:

Goal 1:-

To ensure that it offers academic programs in medical and health sciences of high quality, which are recognized locally, regionally, and internationally.

Objectives:-

- To design, develop and offer Undergraduate programs after the accreditation process is completed for the respective Undergraduate program. Already RAKMHSU has been carrying out the Medical (MBBS), Dentistry (BDS), Pharmacy (BPharm), Nursing (BSN), Nursing (RN–BSN Bridge program) programs successfully after the accreditation process. In addition, RAKMHSU shall offer other appropriate programs as and when approved.
- To design, develop and offer Graduate programs after the accreditation process is completed for the respective Graduate programs. Already RAKMHSU has been carrying out the Master of Science in Nursing in (a) Adult Health Nursing, (b) Pediatric Nursing, (c) Community Health Nursing and (d) Psychiatric – Mental Health Nursing; and Master of Science in Pharmacy in (a) Clinical Pharmacy and (b) Pharmaceutical Chemistry Pharmaceutics. In addition, RAKMHSU shall offer other appropriate programs as and when approved.
- To recruit and retain academic fraternity committed to creation and application of knowledge;
- To develop MBA (Healthcare), Medical Tourism and other contemporary educational programs to meet local and international standards;
- To develop clinical skills and training in cutting edge technologies to be acclaimed internationally by competent healthcare professionals;
- To provide required infrastructure facilities,
- To develop an evaluation system to monitor the outcome of all courses, infrastructure facilities and actions taken for improvement in each College and clinical setting and to ensure the key results are entered into the annual strategic plan for action and review.
- To recruit students committed to acquiring knowledge, skills and appropriate attitudes towards patient care.

Goal 2:-

To promote openness, diversity, fairness and academic freedom.

Objectives:-

- To demonstrate the ability to organize, record, research, present, critique and manage health science related information.
- To demonstrate the ability to work effectively as part of a health care team with appreciation for the multiple contributions of other health care professionals to the health of the individual and the health of the community.
- To monitor the access students, faculty and administrative staff have to records, faculty development and seminars.
- To evaluate coordinators, supervisors, students and patients in relation to openness, diversity and fairness and to ensure that the key results are entered into the annual strategic plan for action and review.
- To promote interdisciplinary opportunity for students and staff.

Goal 3:-

To ensure that its graduates are equipped with knowledge and skills, which allow them to enter the medical and health sciences fields as accomplished healthcare professionals and competent self-learners, critical thinkers, team players, ethically oriented, for contributing towards the development of the society they live in.

Objectives:-

- To develop strategies to support lifelong learning via both print and electronic sources and to remain current with the advances in medical and health sciences knowledge, skills and practice.
- To demonstrate the ability to acquire new information and data and to critically appraise its validity and applicability to one's professional decision.
- To demonstrate the ability to communicate compassionately and effectively, both verbally and in writing with colleagues, patients and their families.
- To display the personal attributes of compassion, honesty and integrity in relationships with patients, colleagues and communities.
- To exhibit a capacity for self-evaluation, moral reflection and ethical reasoning to form the basis for a self-directed, lifelong engagement and involvement in the medical and health sciences profession; and
- To monitor the outcomes of the strategies to support lifelong learning for students, academic faculty and administrative staff and to ensure the key results are entered into the annual strategic plan for action and review.
- To develop an alumni association to support graduates in their profession after graduating from RAKMHSU.

Goal 4:-

To contribute to the advancement of medical and health sciences knowledge and practice through its support of research activities conducted by its faculty and students.

Objectives:-

- To encourage faculty to participate in scholarly activities by attending conferences, seminars and enabling them to publish research papers in scientific journals.
- To facilitate the faculty to write for research projects and receive research grants.
- To facilitate the utilization of intellectual property of the University for the betterment of the humanity at large.
- To monitor budgetary support of and access to conferences, external seminars, research and to ensure the key results are entered into the annual strategic plan for action and review.

Goal 5:-

To render ethical healthcare and service to all patients with highest degree of accountability to self and community.

Objectives:-

- To be able to describe and discuss the implications of basic ethical principles including confidentiality, informed consent, truth telling and justice for the care of the patient.
- To demonstrate the ability to educate the patients and community about various health problems and to motivate them to adopt health promoting behaviors.
- To monitor student and faculty access to continuing education programs, speakers bureaus, clinical training and to carry out patient and community surveys and to ensure the key results are entered into the annual strategic plan for action and review.

Goal 6:-

To accentuate the growth of the University by promoting various academic activities, by establishing inter-institutional alliance with premier health Universities and organizations.

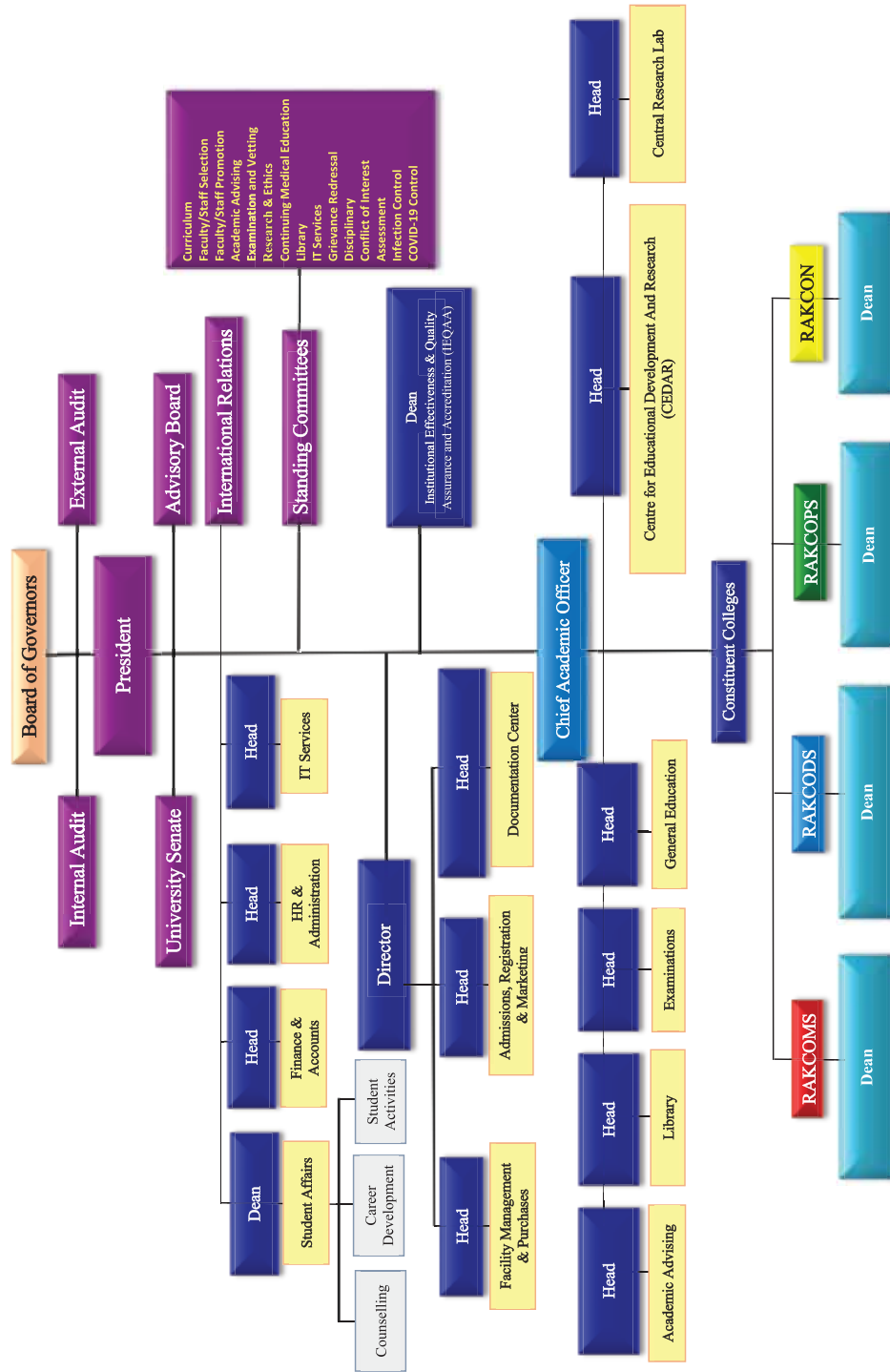
Objectives:-

- To foster interaction with industries, to promote research, infrastructure development and student placement.
- To establish consortial agreements with other premier health institutions and Universities to foster academic research collaboration including faculty and student exchange.
- To monitor the development of outreach programs, internships, collaboration with other universities/institutions and to ensure the key results are entered into the annual strategic plan for action and review.
- To monitor the development of a career planning unit and to ensure the key results are entered into the annual strategic plan for action and review.
- Current performance and the quality of the internationalization process is turned into new opportunities for strategic institutional developments.

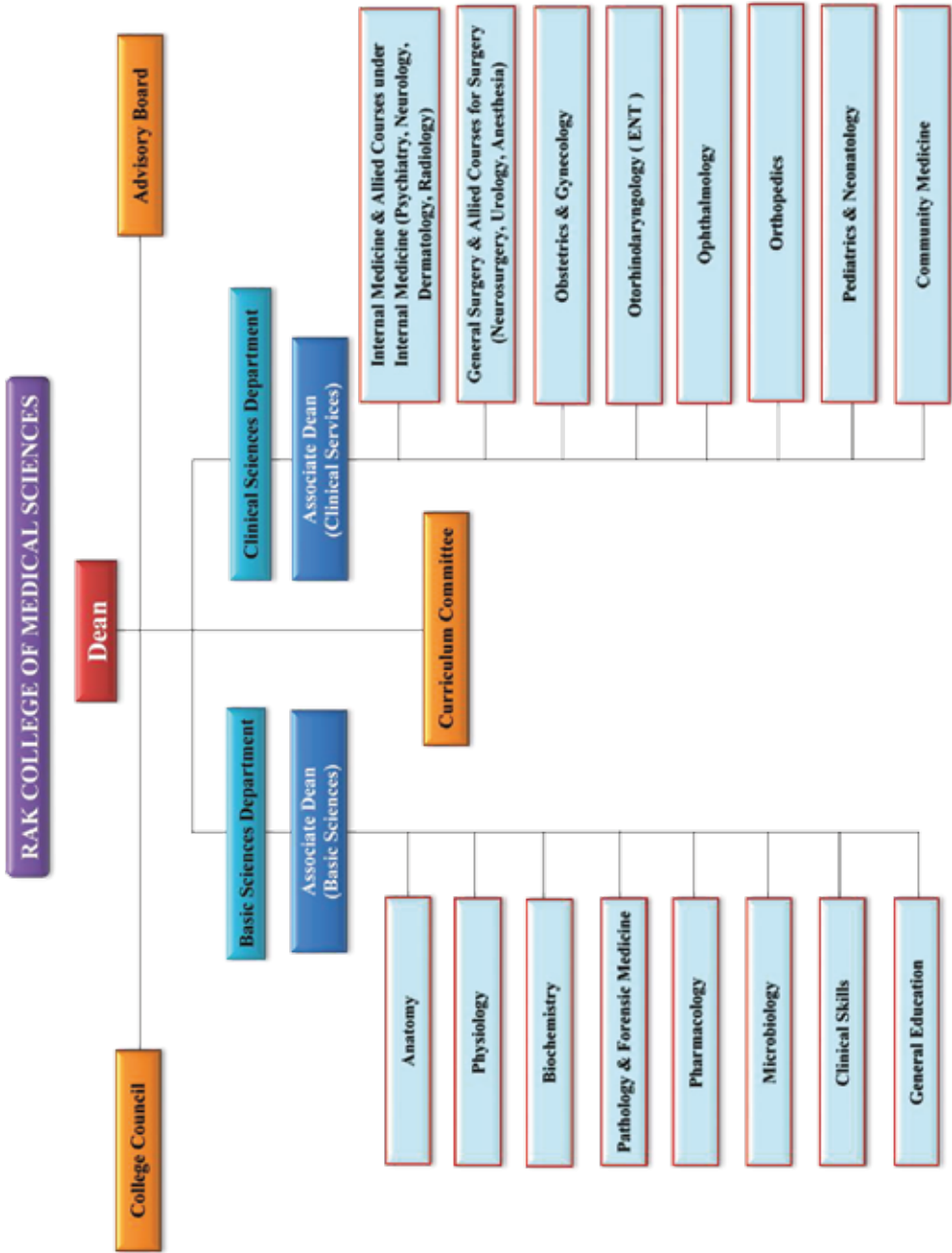
4. Licensure and Accreditation Status

Licensure / Accreditation	Date of Accreditation	Renewal Date	Submission of Documents for ReLicensure/ Reaccreditation
Undergraduate Programs			
RAK Medical & Health Sciences University			
RAKMHSULicensure	22 April 2018	13 March 2023	June 2022
RAK College of Medical Sciences			
Bachelor of Medicine and Bachelor of Surgery [MBBS]	22 September 2017	20 September 2022	December 2021
RAK College of Dental Sciences			
Bachelor of Dental Surgery [BDS]	17 June 2020	31 October 20 24	January 2024
RAK College of Pharmaceutical Sciences			
Bachelor of Pharmacy (BPharm)	4 April 2019	4 April 2024	July 2023
RAK College of Nursing			
Bachelor of Science in Nursing (BSN)	16 December 2018	15 December 2023	March 2023
Registered Nurse - Bachelor of Science in Nursing (RN - BSN)	16 December 2018	15 December 2023	March 2023
Masters Programs			
MS in Pharmacy			
Clinical Pharmacy	14 November 2017	20 September 2022	December 2021
Pharmaceutical Chemistry	4 April 2019	4 April 2024	July 2023
Pharmaceutics	4 April 2019	4 April 2024	July 2023
MS in Nursing			
Master of Science in Nursing <u>Specialties:</u> • Adult Health Nursing • Pediatric Nursing , • Community Health Nursing • Psychiatric Mental Health Nursing	2 September 20 20	30 November 20 23	February 2023
• Midwifery	2 September 20 20	15 June 2023	September 2022

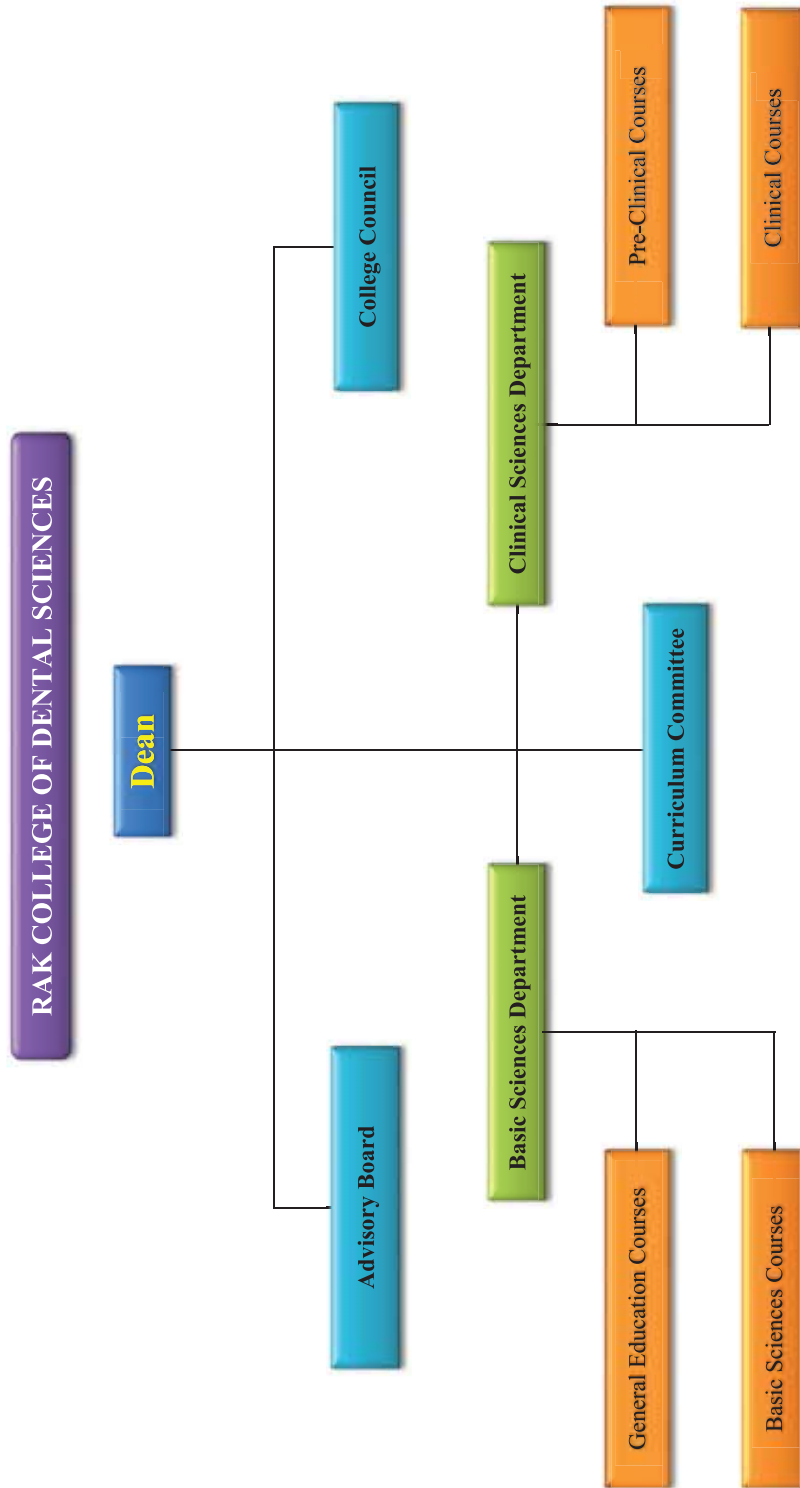
5. RAKMHSU Organizational Chart



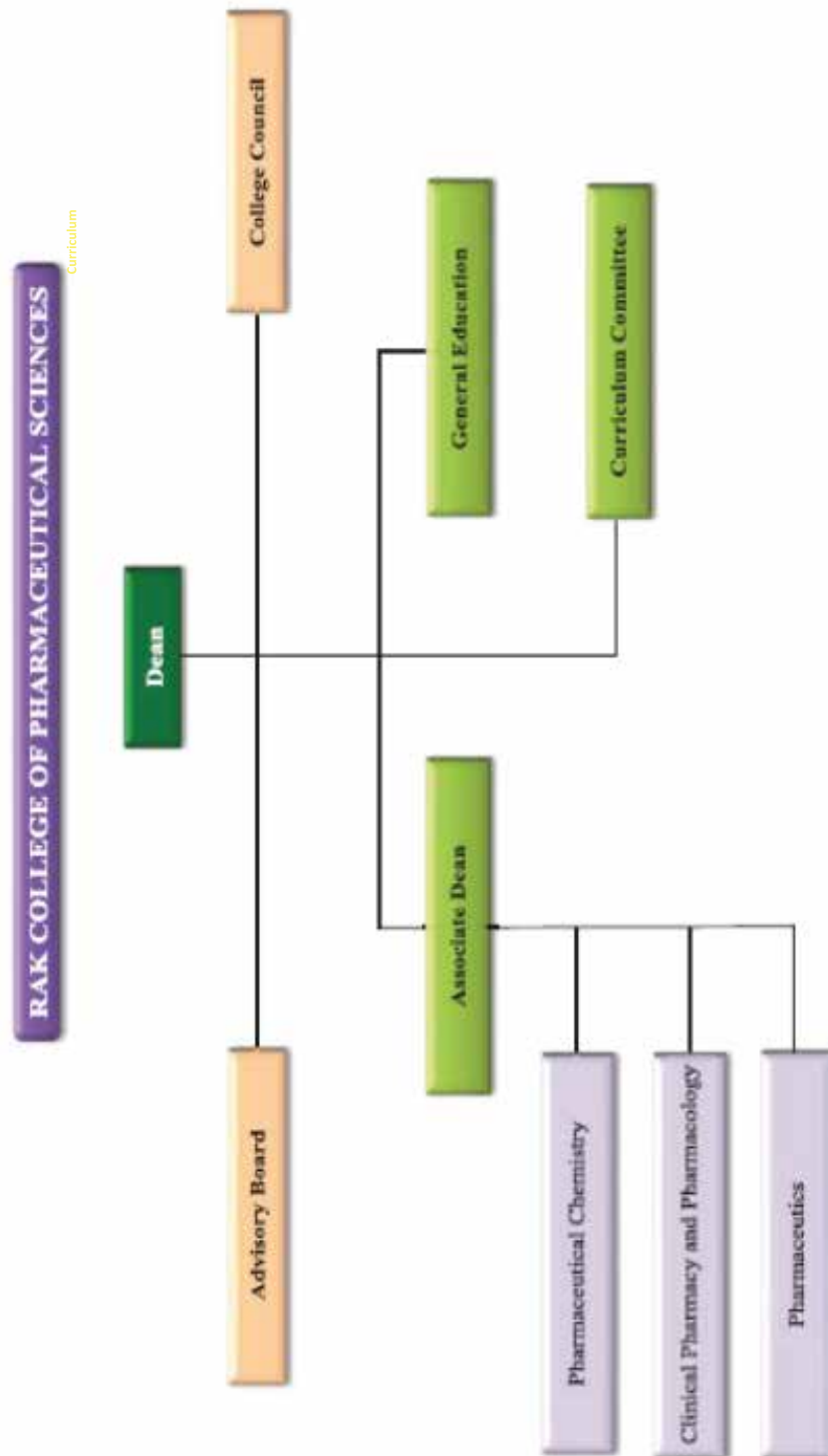
5.1 RAK College of Medical Sciences (RAKCOMS)



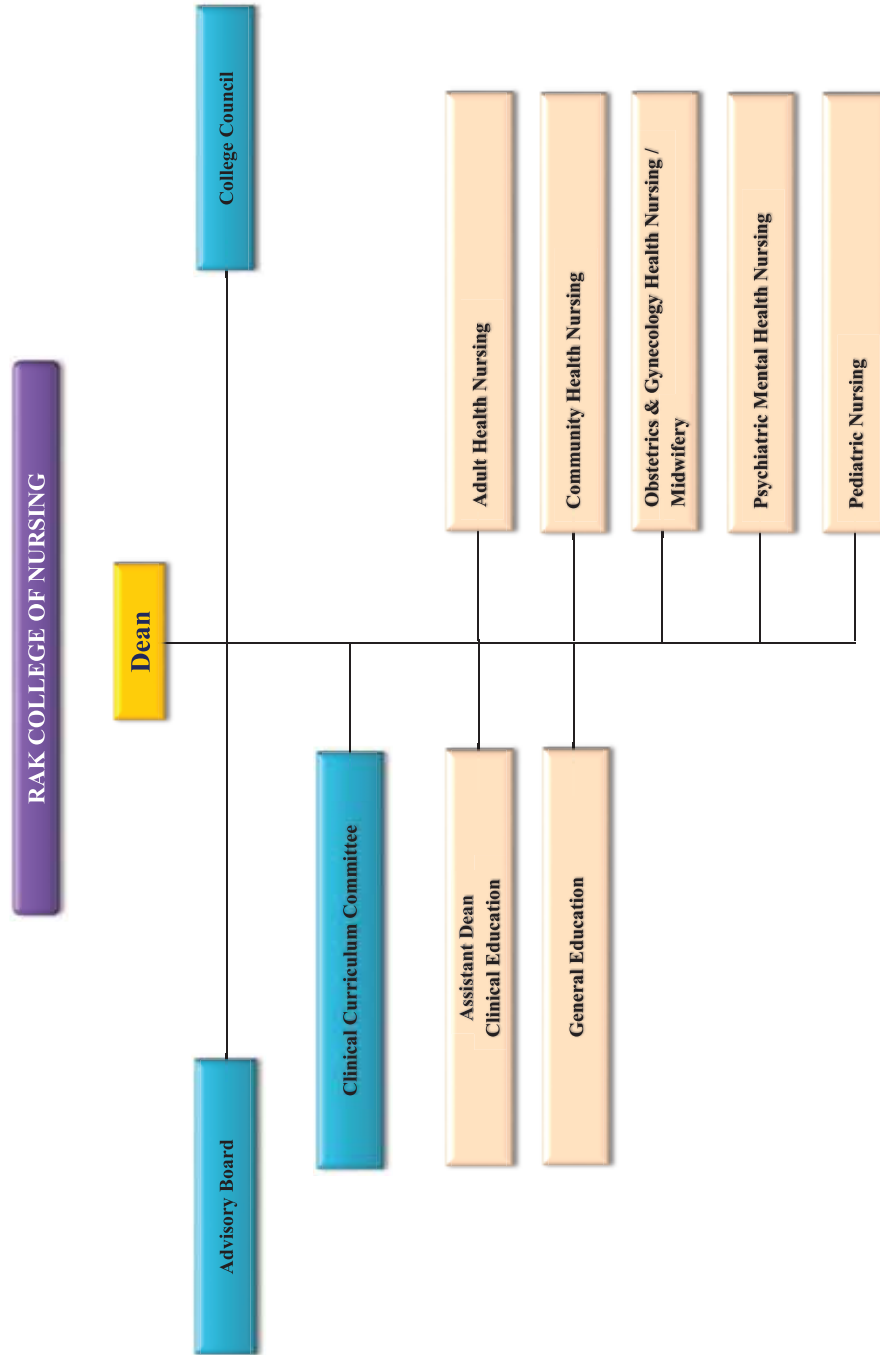
5.2 RAK College of Dental Sciences (RAKCODS)



5.3 RAK College of Pharmaceutical Sciences (RAKCOPS)



5.4 RAK College of Nursing (RAKCON)



6. University Facilities

6.1 RAKMHSU –Physical Setting, Resources and Facilities.

RAKMHSU is located in the Al-Qusidat area of the Emirate of Ras Al Khaimah. The University campus covers over 43,000 Sq. Mts. and has a main Academic Block, Sports Complex, Cafeteria block and Animal house. The main Academic Block is a G+3 building having 300,000 Sq.Ft. of built-up area housing the College of Medicine, Pharmacy and Nursing. The sports Complex (G+1) has a built-up area of 21,000 Sq.Ft. having Indoor play area, Male & Female Gyms, Lounge and Music Room. Additionally, an outdoor football court is also built on an area of 16000 Sq.Ft. The Cafeteria is a G+2 building having an area of 8,600 Sq.Ft and houses the Cafeteria and dining halls for students, faculty and staff. An Animal House is built on an Area of 2,237 Sq.Ft. to support University research activities. College of Dentistry has its own state of art building (G + 5 Floors), a short distance from the main campus.

RAKMHSU students benefit from robust state of the art facilities, which include 30 Lecture halls, more than 25 high-end Laboratories, 2 Computer Labs having more than 300 desktop computer terminals, PBL rooms, On-site and Online Library facilities and an Auditorium equipped with advanced modern Audio Visual equipment at par with the most advanced facilities found in Universities internationally.

6.1.1 Use of University Facilities

The University reserves the right to set reasonable time, place and manner restrictions on all meetings, gatherings or get-togethers to ensure that the most beneficial use of the buildings and grounds of the University are made and that there is no interference with the rights of students to the educational process.

The use of University facilities should not imply an endorsement of any individual, group or organization. The name of the University shall not be identified in any way with the aims, policies, programs, products or opinions of any individual, groups or organizations, which may meet in University buildings or on University grounds.

No University building or part thereof, or ground, may be occupied as living rooms or bedrooms, except those duly set aside and operated

6.1.2 Use of Classrooms, Laboratories and Office Space

Assignment of space in University buildings for continuing use by the College, Departments or other units for use shall be made by the President. These assignments shall be made on a semester-by-semester basis.

Members of the University faculty, staff or students, who are assigned the office space in a building on campus, and who have been authorized to have a key to the main door of the building, shall be authorized to use such assigned office space whenever their work may require such use.

6.2 Use of Computers and Computer Lab

The purpose of the computing ethics and guidelines on use of computers is to help maintain an information technology infrastructure that supports the basic mission of the University. Information technology is a critical resource for the University, as it acquires and distributes data for the purposes of teaching, learning, research, and management. These guidelines rely on common sense and ethical behavior to protect the privacy and access rights of each member of the community. Failure to adhere to these guidelines can result in the suspension of computing privileges.

Students, faculty, and administrators at University have basic rights regarding computing: privacy and access to an equitable share of hardware, software, and network resources. It is unethical for any person to violate these rights.

University owned computing resources are intended for administrative, research, and educational purposes only; and hence they shall be used in a manner consistent with the administrative, instructional, and research objectives of the University. They should not be used for personal profit, commercial development, or frivolous activities.

6.2.1 Access

Access to computers, programs, and files is restricted to authorized users only. Respect for the privacy of others is maintained by not intentionally seeking information about passwords or files belonging to other users, unless explicitly authorized to do so by those users.

- Academic communities are by nature open and transparent, therefore respect for the spirit of academia should be maintained. The theft, mutilation, abuse of public or private computing resources, violates the nature and spirit of the academic environment. Theft also includes; theft of services. Acts of theft will be referred to the appropriate University authority through the Campus Security.
- Computer systems, software applications, and other resources are provided for the benefit of the individuals within the University community. Deliberate or suspicious introduction of computer viruses, deletion or removal of software programs or files is a violation of computer usage policies. Acts of this nature will be referred to the appropriate University authority for disposition.
- Central and network computer access are protected by password security. Protection of computer accounts is accomplished by not divulging one's password to others, by changing one's password frequently, and by deleting unwanted files. If another user should gain access to one's password, the password should be changed immediately.

6.2.2 Usage

- Computer resources, while widely available, are finite. Common sense regarding shared resources should be exercised. Engaging in deliberately wasteful practices; for example, printing large amounts of unnecessary listings, using the laser printer as a copy machine, making unnecessary laser printouts (printing after every editing change), or unnecessarily holding a public PC or workstation for a long period of time when other users are waiting for these devices, is to be avoided.
- Computer connection in the Library is for use by authorized persons only. Activity on these machines is considered to be under the control of an assigned user.

- No server of any sort may be run on the University network other than those sanctioned by the University, and the policies as ratified by the University. This includes, but is not limited to game servers, Windows Servers, Novell NetWare Servers, or any form of UNIX in a server configuration.
- Institutionally owned systems may not operate recreational peer-to-peer applications or any peer-to-peer messaging applications that is exploitable due to improper configuration or application weaknesses. Institutionally owned computers and/or privately owned computers, performing institutional business must have up-to-date anti-virus software installed.
- Services such as DNS, DHCP, BOOTP, WINS, FTP, or HTTP may be operated only within the guidelines and information technology policies of the University.
- The University maintains public access computing labs for use by the faculty, the students, and staff only. Proper use of public computer laboratory facilities is expected. Proper use follows the same standards of common sense and courtesy that govern the use of other public University facilities. Anyone engaged in an activity or use of the facility which hampers or interferes with the ability of others to do their work may be asked to quit the activity and/or leave the facility. Examples include loud conversation, disruptive behavior, excessive computer volume or display of pornographic, offensive or obscene materials.
- Electronic mail (e-mail) is a resource widely distributed and supported on the campus. Electronic mail is to be used for appropriate educational, research, and administrative purposes only. It is a violation of the computing policies of the University to start or forward chain letters which has no relevance to the university activities. This behavior is also in violation of most network policies. In addition, University policy prohibits users from sending threatening, obscene, or harassing messages to other users. University email services should not be used for communicating greetings or forwarding any email other than that of academic interest.
- It is the policy and practice of the University to respect the copyright protection given to software owners. Therefore, it is against the policy for any student, faculty, or staff member to copy or reproduce any licensed software or other copyrighted material on University computer equipment except as expressly permitted by license. Appropriate laws and copyrights are to be respected. Requests for the duplication or installation of software will not be honored without proof of license or proof of purchase.
- Users requesting access to the University computing resources will be required to sign a statement on the appropriate user account request form indicating that they have read, understood, and agreed to abide by these guidelines.

6.2.3 Appropriate usage of the IT Enabled Resources and Services.

Users are requested to make sure the appropriate usage of IT Enabled Resources and Services in compliance with the University Policy, specific responsibilities include but are not limited to:

- 1) IT Enabled Resources and Services are provided to carry out Academic and Administrative activities of the University.
- 2) End Users need to make sure, information must not be disclosed in any form without proper approval. Unauthorized Access, editing, disclosure or copy of such information constitutes a security breach.

- 3) End Users should be aware of the RAKMHSU User rights and responsibilities. This document outlines liability for personal communication, privacy and security issues and sets out the consequences of violations.
- 4) Users are prohibited to access restricted web sites that promote racism, offensive language, pornographic, adult content and other malicious websites.
- 5) Users should not install any software without approval from the IT Department through proper channel.
- 6) Computer accounts are members of University Domain with normal user access rights. Users may not have Administrator privileges in their system.
- 7) Required applications needs to be installed only by the IT Department.
- 8) Users has to take care of their systems and needs to update frequently with the latest anti-virus and windows updates.
- 9) Users has to make sure before copying the data from any external sources - USB flash drives, websites, email attachment..... is free from virus and malicious software.

6.2.4 Authorized User Access and Responsibility.

- 1) User accounts issued by the IT Department are the authorized to access IT Enabled Resources and Services.
- 2) User has the responsibility to maintain Privacy and integrity of the information.
- 3) Password should not be shared with any one in any circumstances; guessable passwords should not be used as compromised passwords may affect the privacy and integrity of the Data.
- 4) User accepts the responsibility for the violations that occur from System while accessing RAKMHSU IT Enabled Resources and Systems from anywhere.

6.2.4.1 Access

- 1) Access to computers, programs, and files are restricted to authorized Users only, privacy for others is maintained, by not intentionally seeking information about passwords or files belonging to other Users, unless explicitly authorized to do so.
- 2) Access to Computer systems, software, Applications, and other resources provided for the benefit of the individuals within the University community.
- 3) Deliberate or suspicious introduction of computer viruses, deletion or removal of software programs or files is a violation of computer usage policies and charges would be brought as per the University policy / prosecution under laws, where applicable.
- 4) Resources are protected by password security. Protection of computer accounts is accomplished by not divulging one's password to others.

6.2.4.2 Usage

- 1) Common sense regarding shared resources should be exercised. Usage of the System for a long period should be avoided when others are waiting.
- 2) No Personal Server of any sort may be used on the University Network.
- 3) University owned computers must have latest anti-virus software installed.
- 4) E-Mail Service should be used only for appropriate educational, research, and administrative purposes and should not be used in any social media platforms and E- Commerce websites.
- 5) It is a violation of the Computing Policies of the University to start or forward chain E-Mails.
- 6) University policy prohibits Users from sending threatening, obscene, or harassing messages to other users.
- 7) University policy prohibits to reproduce any licensed software or copyright material.
- 8) Requests for the duplication or installation of software will not be honored without proof of license, if applicable.
- 9) Users are not allowed to install any application in their System.

6.3 Library

The vision of the Library is to support the RAKMHSU by establishing a knowledge hub to enable access to information resources of all kinds and to provide innovative, responsive and effective services to meet the changing needs of the academic community. The Library has books and journals related to Medical, Dental, Pharmacy, Nursing and General Education courses, apart from books on general interests.

The Library plays a proactive role to ensure that the information resources are acquired and organized to meet the present and future needs of its users. The Library utilizes information technology extensively to ensure that resources are accessible at all times. It has a hybrid collection of printed as well as electronic resources which include Books, Journals, Online databases, Audio-Visuals (CDs/DVDs), e-Books, and e-Journals. The Librarian shall provide orientation to all new faculty/students regarding use of the Library.

In addition of the Central Library and library at RAKCODS campus, there are three satellite libraries located at Obaidallah Hospital and Omran Hospital in Ras Al Khaimah and Fujairah Hospital in Fujairah to facilitate clinical students and clinical adjunct faculty of RAKMHSU. These Satellite Libraries are managed by the Central Library to provide books, journal, E-resources and other services in accordance with RAKMHSU guidelines.

6.3.1 Library Resources

6.3.1.1 Books

The library is equipped with at least ten copies of each recommended textbook and two copies of each reference book for all course offered by the University. At present about 26500+ books are available expanding over 10500+ titles.

Library Resource Collection

Program	No. of Books	No. of Titles
Basic Medical Sciences (common for all programs)	4976	1522
Clinical Sciences	7895	4137
Medical (Total)	12871	5659
Pharmacy	2500	1025
Dental	2804	499
Nursing	4778	1450
General and General Education	3552	1897
Total	26505	10530

6.3.1.2 E-books:

The library is subscribing to 11163 e-books (320 titles from Direct Publisher, 4163 titles through EBSCOHOST platform and 6680 titles through ProQuest Health and Medicine E-Books).

6.3.1.3 E-Journals:

In addition, the library subscribes to 6400+ online journals:

Program	Online through Proquest	Online through CINAHL	Total Online Journals
Medical	3950	788	4738
Pharmacy	277	38	315
Nursing	238	527	765
Dental	70	8	78
Others	595	0	595
Total	5130	1361	6491

6.3.1.4 Online Databases:

(a) ProQuest Health Research Premium Collection: RAKMHSU Library subscribes to the ProQuest Health Research Premium Collection online medical database. It provides information on thousands of medical topics, with full text access to 5100+ journals, and over 900 include MEDLINE indexing. In addition, users have access to charts, diagrams, graphs, tables, photos, and other graphical elements essential to medical research. This package includes the below given databases.

- (i) Health & Medical Collection — in-depth coverage from leading biomedical publications
- (ii) Nursing & Allied Health Database — reliable healthcare information covering nursing, allied health, alternative and complementary medicine, and much more

- (iii) Health Management Database — relevant resources for anyone interested in the business of running a health organization
- (iv) Psychology Database — key information from leading psychology and psychosomatic publications
- (v) Public Health Database — a global resource for students, faculty, researchers, clinicians, policy makers, and all others involved in the study of population and public health
- (vi) Family Health Database — journals and magazines covering an enormous range of health subjects, from sports injuries to women's health, from food and nutrition to midwifery, from eye care to dentistry
- (vii) MEDLINE® — a bibliographic database produced by the U.S. National Library of Medicine (NLM). The database contains millions of citations derived from thousands of biomedical and life science journals, and is indexed with Medical Subject Headings (MeSH®) from the NLM controlled vocabulary.
- (b) **Up-To-Date:** Up-To-Date is a comprehensive evidence-based clinical information resource, designed to provide physicians the quick access to practical and reliable answers to questions that arise during the course of patient care. This covers over 12,000+ topics across 25 medical specialties. Also includes more than 36,000+ graphics, 200+ medical calculators, links to Medline abstracts, over 495,000 references and a drug database.
- (c) **PEPID:** A portable medical information database, is designed to assist in the reduction of medical errors, and improve patient outcomes. It provides healthcare professionals access to the most comprehensive, accurate, and current pharmacological and clinical information at the point-of-care via personal data assistants (PDAs).
- (d) **CINAHL Complete:** CINAHL Complete is the comprehensive Nursing & Allied Health Research Database. It provides full text access for more than 1300+ journals and it contains more than 5 million records dating back to 1937. It also contains Author Affiliations.
- e) **Exam Master :** Exam Master® provides high quality, web-based exam preparation systems for medicine, dental, pharmacy, nursing, physician assistant, and the health sciences.

Coverage:

S.No	Subject Coverage	No. of Questions
1	Medical Subjects (USMLE) Step 1, Step 2 CK, Step 3 & Others	26340+
2	Pharmacy Review (NAPLEX)	1900+
3	Nursing Review (NGLEX)	1640 +
4	Dental Review (NBDE)Part 1	1900 +

Features of Exam Master includes:

- Provides access to a huge collection of medical & health sciences question bank containing nearly 31800+ questions
- Simulate the actual board exam experience

- Provides questions & answers with explanations which help them in self-analysis and students can access the questions in both test/study modes for better practice.
- Faculty/administrators may add their own questions with existing questions and circulate among the group of students.

(f) **Acland's Video Atlas of Human Anatomy:**

- Unembalmed human specimens to illustrate anatomical structures
- Video teaching aid with high quality images (three-dimensional)
- Content includes the Upper Extremity, the Lower Extremity, the Trunk (Musculoskeletal System), the Head and Neck: Part 1, the Head and Neck: Part 2 and The Internal Organs and Reproductive System.

6.3.1.5 Academic Software

- OXSICO** Plagiarism Detention: is a plagiarism checking software. It checks for the unoriginal content by comparing student submitted papers with several databases and provides feedback. It also enables students learn how to avoid plagiarism and improve their writing
- SPSS:** SPSS software is available in the library for statistical data analysis for the faculty and students research purpose.

6.3.2 RAKMHSU E-LIBRARY PORTAL

- Facilitate the easy access to e-Journals, e-Books, online databases, OPAC etc. through single login system
- No Need to remember different credentials for accessing online resources.
- Just one single authentication will enable you to access all E-resources.
- At present the collections are: 6430+ E-journals, 11160+ E-books, 6 Online Databases, Library OPAC and Open Source materials etc.

6.3.3. Circulation Policy *(Some Policies may vary due to Covid 19 Restriction)*

Students are allowed to borrow the resources as per the following details:

Resources	Nos	Duration
Books	4	14 Days
Reference Books	-	Reference only
Magazines/Journals	2	3 days for faculty only
AV Resources	-	Reference only

6.3.3.1 Reservation

- Books can be reserved only when they are already issued to another user.
- The availability of the reserved item will be informed to your University E-mail.
- The reserved resource should be collected from the library within 1 working day after email intimation, otherwise the reservation stands cancelled.

6.3.3.2 Renewal

- Books can be renewed twice each time for 14 days.
- Renewal can be done through Self check-out kiosk or OPAC or by replying to the due date email reminder.
- Books cannot be renewed if it is reserved by another users.

6.3.3.3 Overdue Fines

- Books can be renewed twice each time for 14 days.
- Renewal can be done through Self check-out kiosk or OPAC or by replying to the due date email reminder.
- Books cannot be renewed if it is reserved by another users.

6.3.3.4 Overdue Fines

Any borrower failing to renew or return the borrowed books on or before the due date will be liable to pay a fine calculated as followed:

Books	:	AED 1 per day
Text Books	:	AED 2 per day
Recalled Items	:	AED 2 per day

6.3.3.5 Lost/damaged Resources

In the event of any loss to library property, the lost property will be replaced with a new one and the student/s responsible for such loss will have to bear/share the replacement cost as the case may be.

Circulation Policies during COVID Restrictions

- Return/Due and renewal dates and overdue fines are relaxed during the Covid Restriction. Users are instructed to return the books immediately after the using.
- Reservation of Books are not allowed during the Covid restriction. Users are encouraged to use the E-Books provided by the library.
- As per guidelines, the return book must be kept for quarantine and will be available only after 3 days for the next borrower.

6.3.4 Computational Services in Library

Sufficient number of computers are available in the library provide access to intranet, internet, online resources, library website and online catalog. Non educational activities such as games, chatting, music, video and huge downloads are strictly not allowed.

6.3.5 Copy Centre

The reprography facility is located in the library. It serves the faculty, staff and students by providing a variety of photocopying and printing service on payment basis.

Printing and photocopying on an A4 page costs 25 fils for grayscale print and AED 1 for color print. It will be charged though student's multi-purpose ID card. This card can be recharged through university account office with a minimum amount of AED 50/- (VAT @ 5% will be deducted from the recharge amount).

6.3.6 Copyright Policy

Copyright is a serious matter and any failure to observe these rules may expose the student to liability. RAKMHSU reserves the right to take an appropriate action against those members who violate these rules.

6.3.7 Limitations for Copying

The Library reserves the right to refuse to make any copy of any work for the students as well as prohibiting them from making copies of any work from the collection as it deems fit.

The following limits on the amount of any work to be copied will be strictly observed:

- Published Books (of at least 10 pages): Not more than one chapter or not more than 10% of the total number of pages.
- Periodicals: Not more than one complete article.
- A copy of an unpublished RAKMHSU project work may only be supplied to the user who satisfies the Librarian that the copy is required for the purpose of research or private study only.
- Electronic Materials: Not more than one chapter of the work or not more than 10% of the number of pages thereof (or not more than 10% of the number of bytes thereof where the work is not divided into pages) whichever is more.

6.3.8 Rules for the Library Users (Some rules may vary due to Covid 19 Restriction).

- Bags and personal things must be kept on the property counters/shelves located outside by the entrance of the library.
- Silence and discipline must be maintained in the library premises at all times.
- For any Group discussion, use the dedicated TBL discussion area and maintain silence in the quiet study areas.
- Eatables and drinks in the library are strictly prohibited.
- Users are requested NOT TO reshelv the books by themselves. Just leave it on the table, library staff will reshelv it.
- Newspaper and Magazines will not be issued and can only be viewed and read within the library premises.
- Books for TBL purpose will be issued for specific time and the same must be returned immediately.
- Photocopy service is available only for library materials against payment through multi-purpose University ID card which can be recharged from the accounts office.
- To avoid the violation of the Copyright Law only 10% of a book/a chapter is allowed to be photocopied.

- Handle the library books and reading material very carefully. Marking books with pencil or pen, tearing the pages or damaging the same is strictly not acceptable. Such mishandling of library books and reading material will be subjected to either replace the book or to pay the cost of the book.
- Reference material will not be issued for any reason.
- Maximum of 4 books will be issued to one member for 14 days only.
- User must follow the instruction/procedure during the Self check-out and Self check-in process of circulation.
- User must possess his/her library card while making use of the library facilities and to show the same as and whenever requested by the staff.
- The fines on overdue books will be calculated according to library policy and the user has to follow it.
- Users must to take care of their belongings. The library will not be responsible for the loss or misplacement of their personal belongings.
- For Examination hall ticket, library overdue fines (if any) should be settled before taking any NO DUES or Clearance Certificate from the library. Failing which the Examination Hall Ticket will not be issued.
- All communication for any Library purpose must be through University E-Mail IDs only.
- Users are requested not to disturb the seating arrangement.

Policies during COVID Restrictions

- Must wear the facemask all the time.
- Maintain safe distance as per the guidelines.
- Use Alternate seating to maintain at least 2-meter distance between two seats.
- Wash/Sanitize your hands frequently before and after touching the library materials.
- Only 2 Students are allowed to use Group Discussion Room at a time.

6.3.9 Assistance to Users

The Librarian and the Library Assistants shall be available to answer any questions that Faculty, Staff and Students have, either through personal meetings or through email. Students are encouraged to use their University Email IDs and Library OPAC for communication.

6.3.10 User Education/Information Literacy

To make the users more familiar to the library and its resources the regular training sessions are conducted in the library premises. During online classes, the same is conducted on demand through Google Meet.

6.3.11 Procedures for Suggestions/Complaints

Suggestions/Complaints Book is available in the Library. It can be used:

- To communicate problems pertaining to Library.
- To make comments about Library services and suggestions for any improvement.
- To suggest items for the Library to add to its collection.

Any Suggestions/complaints can also be sent by e-mail which will be forwarded to the Chief Librarian to address them. The Library reserves the right to modify these rules from time to time. The Library notice board will display the revised version of the rules.

6.3.12 WORKING HOURS (Timings may vary due to Covid 19 Restrictions)

Central Library

Sunday to Thursday : 8:30 am - 10:00 pm

Saturday : 9:00 am - 05:00 pm

Friday : Closed

SATELLITE LIBRARIES (OBAIDALLAH HOSPITAL)

Sunday to Thursday : 8:30 am - 02:30 pm

Friday & Saturday : Closed

Note: The Library will be closed on all UAE national holidays and official University holidays.

7. Memorandums of Understanding

Year	S.No.	Date of MOU	Name of Institution / Organization
2006	1	27-Dec-06	Ministry of Health, UAE
	2	16-Oct-06	Emirates College & Hospital of Dentistry, UAE
2008	3	25-Mar-08	RAKCODS (Fzc.) (Formerly Emirates College & Hospital of Dentistry), UAE
	4	08-Jun-08	Department of Health & Medical Services DHOMS, Dubai
	5	23-Oct-08	Julphar, Gulf Pharmaceutical Industries, Ras Al Khaimah
2009	6	13-Oct-09	University of Edinburgh
2010	7	14-Oct-10	Ministry of Health, UAE
	8	25-Oct-10	The University of Findlay, USA
2011	9	16-Feb-11	Louisiana State University Health Sciences Center, USA
	10	23-Feb-11	The Hashemite University, Jordan
	11	22-Nov-11	Tawam Hospital, UAE
2012	12	01-Mar-12	UAE Genetic Diseases Association
2013	13	02-Jan-13	Bahrain Pharma, Bahrain
	14	09-Jan-13	Cyberjaya University, Malaysia
	15	14-Feb-13	MOH-Nursing Sponsorship, UAE
	16	14-Mar-13	American University of Ras Al Khaimah, UAE
	17	21-May-13	University of Basrah, Iraq
	18	25-Aug-13	Charles University, Prague
	19	08-Oct-13	Mafrq Hospital, UAE
	20	05-Dec-13	American University of Ras Al Khaimah (Amendment)
2014	21	19-Jan-14	Dr.MGR Educational & Research Institute, India
	22	19-Jan-14	Rajarajeswari Medical College & Hospital, India
	23	22-Jan-14	Dabur International Ltd, India
	24	09-Apr-14	Signen Biomedical Consulting FZE-Dr. Yasir Al Rawi, UAE
	25	13-Apr-14	Datta Meghe Institute of Medical Sciences (Deemed University), Nagpur, India
	26	13-Apr-14	The University of Findlay, USA
	27	22-Apr-14	Catholic University of Murcia, Spain
2015	28	11-Apr-15	Hacettepe University, Ankara, Turkey
	29	19-Apr-15	Chung-Ang University, Korea
	30	30-Jun-15	University of Findlay-Addendum

Year	S.No.	Date of MOU	Name of Institution / Organization
	31	27-Aug-15	The City of London Dental School, London, UK
	32	28-Sep-15	New York State Education Department
	33	01-Oct-15	Mansoura University, Egypt
	34	04-Nov-15	American Heart Association
2016	35	12-Apr-16	Hasselt University, Belgium
	36	14-Jun-16	Sheikh Khalifa Specialty Hospital
2017	37	10-Jun-17	Manipal University, India
	38	01-Aug-17	RAK Hospital, Ras Al Khaimah, UAE
	39	08-Jul-17	The University of Findlay, USA (8 Jul 2017)
	40	01-Aug-17	Fresenius Medical Care, UAE
	41	07-Sep-17	LSU Health New Orleans School of Nursing
	42	08-Oct-17	The Armed Forces College of Medicine, Egypt
2018	43	18-Jan-18	Ministry of Health & Prevention (MOHP), UAE
	44	02-Apr-18	Apex Laboratories Private Limited, Chennai and Manipal Academy of Higher Education
	45	29-May-18	Oman Medical College, Muscat
	46	12-Jun-18	Azerbaijan Medical University
	47	21-Jun-18	Lithuanian University of Health Sciences
	48	26-Jun-18	St. Johns Medical College, Bengaluru, India
	49	25-Aug-18	Riphah International University
	50	01-Sep-18	Gulf Pharmaceutical Industries (JULPHAR)
	51	05-Sep-18	Saveetha Institute of Medical and Technical Sciences, India
	52	06-Nov-18	Oasis Hospital
2019	53	06-Feb-19	Association of American Medical Colleges
	54	10-Jan-19	Gulf Medical University-Teach-Out Agreement-RAKMHSU-GMU
	55	22-Apr-19	EVA PHARMA for Pharmaceuticals and Medical Appliances S.A.E
	56	23-Apr-19	The Military Medical Academy
	57	24-Apr-19	Al Azhar University
	58	25-Aug-19	European University-RM SKOPJE, Macedonia
	59	26-Aug-19	Sheikh Saud Bin Saqr Charitable Education Foundation
	60	09-Sep-19	Ministry of Health And Prevention, UAE
	61	09-Oct-19	Vinayaka Mission Research Foundation
2020	62	05-Feb-20	Dataflow Verification Services
	63	16-Nov-20	Temple University
2021	64	17-Mar-21	Mothercell Regenerative Centre Private Limited
	65	13-Apr-21	Father Muller Research Center, India (13 Apr 2021)
	66	28-Aug-21	University of Liverpool

8. Admission Regulations

8.1 University General Admission Requirements

RAKMHSU admission policy is based on student academic achievement in the 12th grade/ higher secondary school certificate or its equivalent, and English language proficiency, regardless of gender, race, color, religion, age or national origin.

Admissions to undergraduate programs of RAKMHSU shall be competitive and will be based on the scores in the UAE (GSEC)/ Grade 12 or its equivalent. Admission will depend on high merit and students are advised to fill in the online application in the RAKMHSU website and upload their grade 12th transcript, EMSAT-English/TOEFL/IELTS score, other relevant documents/attachments.

Admission to all programs is based entirely on merit. Admissions are open to students of all nationalities.

Admission of international students will also depend on UAE immigration regulations regarding student visa including Covid regulations.

8.2 Admission Requirements:

For MBBS Program:

1. Admissions General Requirements

1. An EmSAT score of 800 for Arabic Language. Alternatively, the international students can register for a non-credited Basic Arabic Language course at the institution.
 2. An EmSAT score of 900 in Mathematics or equivalent, plus scores of 900 in two of the three science subjects (Chemistry, Biology or Physics). In the case that EmSAT scores in Mathematics and two science subjects are not available, a candidate shall sit an equivalent Admission/Entrance Exam designed by the College which includes Chemistry, Biology, Physics and Mathematics.
 3. Passing a personal interview set by the College in addition to other conditions of admission set by the university.
- 1.2 English language requirements for MBBS program: An Emirates Standardized Test (EmSAT) score of 1100 for English Language or an equivalent English Proficiency Test approved by the CAA. (TOEFL score of 500 in paper-based test OR 61 in internet based test OR Academic IELTS score of 5) .

UAE Curriculum:

A minimum High School Average of 90% for Advanced Track or 85% for Elite Track or equivalent in Standardized International Systems is required with no admission of General Track applicants.

For BDS Program:**1 Admissions General Requirements**

1. An EmSAT score of 800 for Arabic Language. Alternatively, the international students can register for a non-credited Basic Arabic Language course at the institution.
 2. An EmSAT score of 900 in Mathematics or equivalent, plus scores of 900 in two of the three science subjects (Chemistry, Biology or Physics). In the case that EmSAT scores in Mathematics and two science subjects are not available, a candidate shall sit an equivalent Admission/Entrance Exam designed by the College which includes Chemistry, Biology, Physics and Mathematics.
 3. Passing a personal interview set by the College.
- 1.2 English language requirements for BDS program: An Emirates Standardized Test (EmSAT) score of 1100 for English Language or an equivalent English Proficiency Test approved by the CAA. (TOEFL score of 500 in paper-based test OR 61 in internet based test OR Academic IELTS score of 5)

UAE Curriculum:

A minimum High School Average of 85% for Advanced Track or 80% for Elite Track or equivalent in Standardized International Systems is required with no admission of General Track applicants.

For B.Pharm Program:**1 Admissions General Requirements**

1. An EmSAT score of 800 for Arabic Language. Alternatively, the international students can register for a non-credited Basic Arabic Language course at the institution.
 2. An EmSAT score of 900 in Mathematics or equivalent, plus scores of 900 in two of the three science subjects (Chemistry, Biology or Physics). In the case that EmSAT scores in Mathematics and two science subjects are not available, a candidate shall sit an equivalent Admission/Entrance Exam designed by the College which includes Chemistry, Biology, Physics and Mathematics.
 3. Passing a personal interview set by the College in addition to other conditions of admission set by the university.
- 1.2 English language requirements for B.Pharm program: An Emirates Standardized Test (EmSAT) score of 1100 for English Language or an equivalent English Proficiency Test approved by the CAA. (TOEFL score of 500 in paper-based test OR 61 in internet based test OR Academic IELTS score of 5)

UAE Curriculum:

A minimum High School Average of 85% for Advanced Track or 80% for Elite Track or equivalent in Standardized International Systems is required with no admission of General Track applicants.

For BSN Program :

1. UAE Curriculum:

An aggregate of 70% in the grade 12 science stream/ Advanced stream of UAE GSEC of Ministry of Education. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics or EMSAT score whichever is higher.

Abu Dhabi Education Council stream students should similarly have 70% aggregate. Preference in admission will be given to those with high scores in Advanced Biology(level 3) and Advanced Chemistry(level 3) or EMSAT score whichever is higher.

2. Admission test covering the four main science subjects (Maths, Physics, Biology and Chemistry)

3. Admission Interviews

English language requirements for BSN program: An Emirates Standardized Test (EmSAT) score of 1100 for English Language or an equivalent English Proficiency Test approved by the CAA. (TOEFL score of 500 in paper-based test OR 61 in internet based test OR Academic IELTS score of 5)

Those not meeting English Language requirements can be conditionally admitted, that is those with TOEFL between 450 but less than 500, EmSAT 950 but less than 1100 or between 4.5 and 5 in IELTS. After one semester upon meeting the English Language Requirements stipulated, they can proceed to the second semester.

As Registered Nurses employed in UAE hold Associate Degree/ Diploma in nursing from accredited nursing colleges, in order to join the RN-BSN Bridge program, the following admission requirements should be fulfilled: The Registered Nurse should have completed the Associate Degree/Diploma in Nursing of 3 year duration from an accredited school of nursing with at least 65%-70% aggregate (by adding 1%of credit for every one year of experience up to a maximum of 5% credit).

The following documents are to be submitted to fulfill admission requirements:

- RN Licensure from the country of origin.
- Should produce grade 12/high school completed and attested mark sheet and obtain Equivalency for the same from Ministry of Education (MoE,UAE). Two to six years of clinical working experience in hospital/community center after completion of Associate Degrees / Diploma in Nursing depending on aggregate marks secured
- TOEFL passed with minimum 500 points (in paper based) or IELTS with a score of 5.0 or EmSAT Achieve English score of 1100.
- Should have obtained Equivalency Certificate from Ministry of Education (MoE) for the 3 year Diploma in Nursing/Associate Degree.
- Should have completed the following prerequisites courses in the Associate Degree/ Diploma in Nursing.

(i) General Education Courses:

English, Mathematics, Chemistry, Physics

(ii) Humanities and Social Science Courses:

Introduction to Psychology; Microbiology; Pathology; Anatomy and Physiology - 1 & 2; Biochemistry; Human Nutrition; Sociology

(iii) Nursing Courses:

Fundamentals of Nursing, Pharmacology in Nursing, Medical - Surgical Nursing - 1 & 2, Community Health Nursing - 1, Pediatric Nursing, Psychiatric Nursing, Gynecological and Maternity Nursing.

Those not meeting English Language requirements can be conditionally admitted, that is those with TOEFL between 450 but less than 500, EmSAT 950 but less than 1100 or between 4.5 and 5 in IELTS. After one semester upon meeting the English Language Requirements stipulated, they can proceed to the second semester.

8.3 Foreign Higher Secondary School Certificates:

The following is a list of certificates and the corresponding minimum levels of performance required for admission to RAKMHSU programs. These certificates and levels of achievement serve as guidelines for admission to RAKMHSU programs.

8.3.1 For MBBS Program:

1. American Curriculum:

An aggregate score of 90% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics. If Biology is not taken in 12th Grade, a SAT II score of 550 in Biology is required. SAT in Math and English required to be completed in school for obtaining Equivalency Certificate.

2. International Baccalaureate:

Must have completed any six courses including Biology and Chemistry/Physics at the higher level and obtain IB score of at least 26.

3. Pakistan Boards/Certificate:

For MBBS: Higher Secondary School Certificate with aggregate of 75% can apply. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics (Part 1 and Part 2 total).

4. Indian Curriculum:

All India Senior School Certificate XII std CBSE/ISCE exams with 75% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

Indian State board: 80% aggregate can apply. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

5. British Curriculum :

Students applying for the MBBS programs must have completed at least two Advanced Supplementary of AS level OR one A level in Biology with at least 'B and above' grade after having completed 5 IGCSE/GCSE or O levels with minimum grade of 'B and above' in O level courses.

Only courses classified as academic will be considered for admission. Courses must include Physics, Chemistry and Biology with at least two of them including Biology at the AS level/A level.

6. African Curriculum (WAEC/WASSCE etc)

A & B combination of grades in 12th grades in Biology and Chemistry can be considered. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

7. Canadian Curriculum (Ontario/Alberta etc)

An aggregate score of 85% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

8. Kenyan Curriculum

Students with A, A- B+ grade in 12th in Biology and Chemistry can be considered. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

Applicants from any other foreign educational curriculum not listed above must have secured a minimum aggregate equivalent to UAE curriculum 90% as per International Conversion Table of World Education Standards.

8.3.2 For BDS program:

Foreign 12th grade Curriculum Equivalencies:

1. American Curriculum:

An aggregate score of 85% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics. If Biology is not taken in 12th Grade, a SAT II score of 550 in Biology is required.

2. Indian Curriculum:

All India Senior School Certificate XII std CBSE/ISCE exams with 70% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

Indian State board: 75% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

3. Pakistan Boards/Certificate:

Higher Secondary School Certificate with aggregate of 70% can apply. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics (Part 1 and Part 2 total).

4. African Curriculum (WAEC/WASSCE etc)

C grade & above combination of grades in 12th grades in Biology and Chemistry can be considered. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

5. Canadian Curriculum (Ontario/Alberta etc)

An aggregate score of 80% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

6. British Curriculum :

Students applying for the BDS program must have completed at least two Advanced Supplementary of AS level OR one A level in Biology with at least 'C and above' grade after having completed 5 IGCSE/GCSE or O levels with minimum grade of 'C and above' in O level courses.

Only courses classified as academic will be considered for admission. Courses must include Physics, Chemistry and Biology with at least two of them including Biology at the AS level/A level.

7. Kenyan Curriculum

Students with B, B-, C+ grades in 12th grades in Biology and Chemistry. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

Applicants from any other foreign educational curriculum not listed above must have secured a minimum aggregate equivalent to UAE curriculum 85% as per International Conversion Table of World Education Standards.

8.3.3 For B.Pharm Program:

Foreign 12th grade Curriculum Equivalencies:

1. American Curriculum:

An aggregate score of 85% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics. If Biology is not taken in 12th Grade, a SAT II score of 550 in Biology is required.

2. Indian Curriculum:

All India Senior School Certificate XII std CBSE/ISCE exams with 70% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

Indian State board: 75% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

3. African Curriculum(WAEC/WASSCE etc)

C grade & above combination of grades in 12th grades in Biology and Chemistry can be considered. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

4. Canadian Curriculum(Ontario/Alberta etc)

An aggregate score of 80% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

5. British Curriculum:

Students applying for the B.Pharm program must have completed at least two Advanced Supplementary of AS level OR one A level in Biology with at least 'C and above' grade after having completed 5 IGCSE/GCSE or O levels with minimum grade of 'C and above' in O level courses.

Only courses classified as academic will be considered for admission. Courses must include Physics, Chemistry and Biology with at least two of them including Biology at the AS level/A level.

6. Kenyan Curriculum

Students with B, B-, C+ grades in 12th grades in Biology and Chemistry. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics.

Applicants from any other foreign educational curriculum not listed above must have secured a minimum aggregate equivalent to UAE curriculum 85% as per International Conversion Table of World Education Standards.

8.3.4 For BSN Program:

Foreign 12th grade Curriculum Equivalencies:

1. American Curriculum:

An aggregate score of 70% is required. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics. If Biology is not taken in 12th Grade, a SAT II score of 550 in Biology is required.

2. Pakistan Boards/Certificate:

Higher Secondary School Certificate with aggregate of 55% can apply. Preference in admission will be given to those with high scores in Biology and Chemistry/Physics (Part 1 and Part 2 total).

3. Indian Curriculum:

All India Senior School Certificate XII Std. CBSE/ISCE exams with 55% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

Indian State Board: 60% aggregate can apply. However, preference in admission will be given to those with high scores in Biology and Chemistry/Physics courses.

Applicants from any other foreign educational curriculum not listed above must have secured a minimum aggregate equivalent to UAE curriculum 70 % as per World Education Standards.

NOTE: Attestations & Equivalency Certificate mandatory prior to admission:

- a) Prior to admission, all students who studied foreign curriculum in UAE must produce the Equivalency Certificate from the Ministry of Education of the emirate in which studied. To obtain the same, students should visit the Ministry of Education and submit their Arabic and Islamic results for the grades 10, 11 and 12 (For Muslims).
- b) For students who studied foreign curriculum in UAE, attestation (official seal & stamp) of certificates grade 10 onwards until grade 12 by Ministry of Education is also mandatory.
- c) Students who studied foreign curriculum outside UAE, must obtain attestation (official seal & stamp) of school grade sheets, 10th grade upwards until 12th by Ministry of Education in the country of study, Ministry of Foreign Affairs and UAE consulate in that country.

English language requirement validity: Please note that the validity of TOEFL paper based test & IELTS is two years only and for Emsat English score is 18 months and these scores should be valid at the time of registration to any of our programs (Sept 1) when the new academic year begins.

8.4 How to Apply

The admission procedure/important dates are announced on the RAKMHSU website and in the flyers and brochures distributed.

8.4.1 For MBBS, BDS, B.Pharm, BSN, RNBSN Programs:

Each applicant must complete the online application form available on the University Website: www.rakmhsu.ac.ae

The online application form is to be filled in and submitted as per the admission dates announced by the University. Late applicants will be received until the date mentioned in the website subject to availability of seats. Individual candidates will be informed about his/her selection subject to meeting admission requirements.

The following original documents are required to be shown as part of verification process during admission:

- Grade 12 marksheet authenticated/attested by the relevant Ministry of Education of the country of study.
- Original TOEFL/IELTS score (not more than two years old)
- Certificate of good conduct OR Reference letter to be obtained on the school/college letterhead.
- 05 recent and identical passport size photographs.
- Copy of the passport.
- Copy of the visa, in case if the student is already a resident of UAE.

Copies of these documents will constitute the Student File and rests with the Office of Admissions, in a joint agreement between the University and the student to maintain confidentiality. Student file is the property of the University but may be released to the student upon a written request, for any valid reason.

Note: In the event of submission of any fraudulent marks card, incorrect or untrue information, or suppression or distortion of any fact in any of the documents, admission is liable to be cancelled without any refund of fees, at anytime during the period of study at RAKMHSU.

8.4.2 Conversion Program leading to BSN:

Pathway from enrolment in Conversion program, leading to admission into BSN program at RAKMHSU Based on the agreement signed by Ministry of Health & Prevention (MOHAP) and RAKMHSU, UAE Nationals who have completed Arts stream of UAE curriculum/12th grade with 75% or above aggregate can apply to Ministry of Health & Prevention (MOHAP) for sponsorship to join Conversion Program within the dates mentioned by them. MOHAP will provide the final list of the students selected for sponsorship to RAKMHSU.

All other nationalities from Arts stream who wish to join the Conversion Program have to remit AED 13,000 after fulfilling admissions requirement.

The duration of the Conversion Program is 16 weeks. Upon passing the Conversion Program with a GPA of 2, and upon meeting the English Language requirements (IELTS with a score of 5 or TOEFL paper based test with a score of 500), EmSAT Achieve- English score of 1100 - 1225, students will be eligible for admission to the Bachelor of Science in Nursing (BSN) degree program.

Note: UAE Nationals from Advanced/Science stream who fulfill all the requirements for the BSN program at RAKMHSU may directly approach MOH for sponsorship.

8.4.3 Admission Procedure (For MBBS)

The following steps will be followed for admissions to the MBBS program for Sept 2021 session:

1. From the online applications received, a call letter for interview will be issued to the highly meritorious amongst the fully qualified candidates for the interview which will be conducted on Virtually through google meet or Zoom software. Admissions Committee consisting of Dean of RAK College of Medicine & a panel of one or two Senior Faculty and In charge - Admissions will conduct the interview.
2. An Admissions Exam will also be administered online that includes basic science courses- Biology, Chemistry Physics & Mathematics.

3. Grade 12 results are declared for various Boards of study in UAE at different timings in 3 phases-starting end of May, mid of June and first week of July. Therefore, interviews will be conducted from June onwards every week until seats are full.
- The admission will be based on merit and on the MOE Guidelines for admission.
 - Candidates who are selected for admission after the interview will receive the Admission Offer letter by email from the University within 2 days with a timeline for acceptance and confirmation by payment of fees. If the candidate is accepting the offer of admission, he/she must comply with all the requirements specified in the Admission Offer Letter including submission of required documents and payment of fee on or before the stipulated date mentioned in the Admission Offer Letter. If the candidate does not respond within the deadline mentioned, the admission offer automatically expires and the seat is allotted to the next candidate in the waiting list.
 - On compliance of the above including payment of requisite fee, the candidate will receive a registered student ID number on email and due intimation from the University regarding further details on the Freshman Orientation Program.
 - Applicants should strictly adhere to the deadlines indicated for admission, submit online applications on time and upload important document copies mentioned such as grade sheets/ transcripts, EmSAT/IELTS/TOEFL scores etc and ensure application is fully completed before they click the submit button.
 - Once the seats are full, the remaining candidates who have qualified after interview will be waitlisted.
 - Waitlisted applicants and late applicants can be considered for admission if seats are still available for that program, within registration deadlines.
 - Admission of students are subject to the compliance of all requirements specified in the Admission Offer Letter.
 - All the documents submitted online by the candidates will be verified with the originals submitted by the candidates during admission and duly returned after verification as per CAA Standards.
 - In case of non-compliance with any of the admission criteria/ false documentation submitted, the admission of the candidate will automatically stand cancelled.

The original documents to be submitted for verification by the candidate for verification are mentioned in the admissions offer.

Note:

- Students with 12th grade mark sheet/grades more than 2 years old will not be given priority for admission.
- The University reserves the right to refuse admission to any candidate without assigning any reason.
- The decision of the Admission Committee in the matters of admission is final.
- The jurisdiction in respect of all legal matters in admission related matters will be at Emirate of Ras Al Khaimah.

8.5 Transfer Policy

8.5.1 Admission as a Transfer Student (from other Universities/Colleges)

RAKMHSU accepts students as transferred from itself (from one program to another), or from other universities/colleges, subject to availability of seats in that program and year. The candidate requesting the transfer from an accredited university shall submit a request to the Office of Admissions & Registration with the following documents after checking if seats are available in the second week of August:

Students seeking transfer to our University are required to submit the following:

- A. Transfer application form duly completed
- B. Transfer application processing fee of AED 500/-
- C. Supporting documents
 1. A cover letter from the applicant detailing the reasons for the request of transfer to RAK-MHSU and how the transfer would be of benefit.
 2. A 'No Objection for Transfer' certificate from the applicant's current institution.
 3. The official up -to-date and attested (from Ministry of External Affairs, Abu-Dhabi, UAE) academic transcripts from the applicant's current university with an explanation of the grading system. If the original transcript is not in English an official English translation is to be provided. This is not required for those who studied at accredited colleges in UAE, GCC, UK, US, Ireland, Europe & New Zealand.
 4. Copy of the course content of courses for which the student wishes to claim the credits.
 5. Score of the TOEFL/IELTS last appeared.
 6. 10 recent and identical passport size color photographs. Copy of passport valid for at least one year.
 7. Document to be enclosed showing proof of the institution's accreditation/recognition from the respective Ministry/Government if the institution is outside UAE.

Students may be accepted from other medical or health sciences university/s after the first or second year so that not more than 50% of the credits required for graduation completed at other college or university. The admission is granted after evaluation on an individual basis.

The following points will be taken into consideration:

- The course should have been undertaken as full time program.
- At least 50% of the total credit hours of the respective program should be carried out in RAKMHSU. The student's general academic ability will be reviewed based upon careful examination of academic history, including factors such as the grade-point average, the selectivity of the University attended, the difficulty of the curriculum and the credit hours, and the required examinations of the respective semesters, if necessary.
- Students must be in good academic standing at their previous University with a GPA of at least 2.00 (70%) and above, or must have earned a 'C' grade, with no failing grades except when the entire course has been successfully repeated.

The applicant should have the capacity for the academic study of medical or other health sciences programs, based upon the scores, relevant personal qualities and characteristics of the applicant, including factors such as the applicant's career goals, cultural and educational background, moral character, leadership qualities, commitment to community service and the ability to think and act independently. This will be assessed by a personal interview of the candidate by an ad hoc committee constituted by the Office of the Examination.

Students who have discontinued their studies for a period more than one academic year may be required to appear for placement test in the courses for which credit transfer is sought

Students will be notified of the outcome of their request within ten working days from the date of submission of their application.

A student who has been dismissed from any university will be not eligible for admission as a transfer candidate, unless his/her former Dean / President gives a letter of recommendation addressed to the President confirming that the student has been reinstated, is in good standing, and is eligible for transfer and admission/readmission.

8.5.2 Policy for Inter-College transfer (change of program within RAKMHSU) :

If a student who has already enrolled and paid fee in one particular college and wants to transfer to another college, the following will be the procedure:

A. For Existing Students who have already completed one year of study:

1. The transfer request application/ NOC has to be obtained from the Dean of the college where student is enrolled in and forwarded to Dean (Examination) within the university registration deadlines for the particular college/ semester. A decision regarding the transfer will be made in consultation with the Dean of the college to which the student is seeking transfer, and will depend on availability of seats, the courses studied and examinations taken in the previous program.
2. The student will be treated as a fresh student in the program where he is seeking transfer and will have to do all the courses offered except general education courses, if he/she has passed them in the earlier program.

Any other exemption of courses will be based on the equivalence of courses and recommendation of the Dean.

3. There will be no refund of fee paid in the earlier year.

B. Shifting between colleges/programs during Admission and before start of classes:

- A decision in such cases will be based on the student's merit and on fulfilling the admission requirements for the particular college /program to which admission is sought and also will depend on the seats available in the program/college of his second choice. Student has to request for transfer and remit AED 500 transfer processing fee if he has not indicated the program of his second preference at the time of filling the online application form.

C. For Waitlisted Students during admission:

If a student who has been waitlisted for admission to the program of his choice has, meanwhile already joined another college/program in RAKMHSU to secure his seat; when such a student is contacted/given an offer for joining the program of his initial choice, then the entire fees including application, admission and tuition fees will be transferred to the college/program for which admission is offered. Waitlisted students will not be charged any transfer processing fee. If any additional balance fees is payable for the new program, that has to be paid by the student to confirm his seat.

In B & C above, if the fees remitted by the student for the earlier program is in excess, the balance fees will be adjusted in the tuition fee of next semester of the second program joined. Such cases during admission time and before start of classes do not require NOC of the Dean.

After start of classes, for any such request for inter-college transfer, the student must obtain the NOC of the Dean and should be within university registration deadlines for that college and fee will apply as per category A above. Any such transfer request will not be entertained if it is made one month after the start of the academic semester. The student has to further fulfill the attendance requirements of the college being transferred to.

In any of the category above, once such a change/transfer of college/program is made, the transfer is final and it will not be possible to revert the status again and the student has to sign an undertaking in this regard.

8.6 Admission of Non-Graduating Students

The University will consider application from eligible candidates for admission as non-graduating students. The conditions under which non graduating students may be admitted to RAKMHSU are listed below.

- The applicant must be a current student registered at another University or should have been a registered student within a year of date of admission to RAKMHSU as a non-graduating student.
- The applicant must have the minimum English competency as for admission to any graduating program of the University i.e TOEFL paper based score of 500 or above or equivalent.
- The applicant must be of good academic standing and should not have been dismissed from studies by the student's previous institution.
- If the applicant has been offered a transfer to RAKMHSU he may, before the transfer date, be registered as a non-graduating student. However the student may only register for General Education courses in semesters prior to the semester of transfer into the RAKMHSU program.

- Non Graduating students will study for a maximum of two semesters either consecutive or non-consecutive, at RAKMHSU.
- Non Graduating students are permitted to register for a maximum of 15 credits per semester. Courses registered for may be from different semesters of the program or different programs but it is the student responsibility to ensure there is no conflict in the time-tables.
- All academic regulations regarding attendance and examinations and all general university regulations for graduating students will apply to non-graduating students
- Tuition fees will be on a pro rata basis according to the standard university guidelines. All other fees will be as for graduating students.
- At the end of the period of study transcripts will be issued with grade point equivalents but not Grade Point Averages or Cumulative Grade Point Averages. No other official academic document will be issued.

8.7 Registration

All the students admitted to the various undergraduate programs of the University must register at the beginning of each semester. The Admission & Registration Office will inform the date and time of registration to all the newly admitted students. Year 2 onwards, Registration is done College-wise. Existing students from year 2 onwards, have to remit fees as per deadline and complete registration into new semester with respective faculty coordinators. A student, who fails to complete the registration process on the given date, will not be entitled to attend the lectures and will be deprived of the privileges of the University and will have to remit the late registration fee. For purposes of determining the attendance of students, the date on which the student is registered will be considered as the date of commencement of studies.

Any student unable to register on the eligible date should notify the Dean of the College immediately providing reasons for the delay in registering. Following such notification the Dean may grant exemption from attendance during the delay, based on the merits of the individual cases

8.8 Freshmen Orientation Program

On admission to RAKMHSU, the student must attend the Freshmen Orientation Program. The Orientation Program is designed to familiarize the students with several aspects of the University life in general, and with their College in particular, including the academic activities and the University policies and procedures. In addition, the student will receive important information about the University student services, learning resources, job opportunities, financial aid, student activities, career counseling, housing, etc. The use of the library and its services are also included as a part of the orientation program.

8.9 Credit Hours

At RAKMHSU, the courses are calculated in terms of credit hours. Each course carries certain number of credits that are awarded after the successful completion of that course. One credit hour equals to one hour of lecture, or two hours of tutorial or laboratory work, two hours of Problem Based Learning/Case Based Learning / Team Based Learning, or four hours of clinical teaching in the hospital, per week, for 16 weeks.

8.10 Student Records & Information Release Policy

1. Purpose: RAKMHSU maintains individual student records and information for the purpose of providing educational and personal services to its students. The university policy ensures confidentiality of the student records. The following guidelines and procedures are intended to ensure the confidentiality of student records and to establish the right of students to inspect and review their Education Records and to clarify the circumstances under which educational records may be released to third parties and to establish the appropriate procedures to be followed by students for correction of inaccurate data if any within their Education Records.
2. Access to Records: Students have the right to review their own Education Records in the presence of a University representative- in person /electronically. An explanation and interpretation of the record will be provided by the University's representative. The student has to submit a request to view the record in writing and submit the request in writing to the appropriate office mentioning their student ID and the offices shall comply within one week of receiving the request. Student may be required to pay a small fee for the copies of their records. Student may be denied access to the copy of the record in case of any administrative hold until the hold has been removed. There may be limitations on the right to inspect or review a record especially if it has confidential details pertaining to other students.

If the student believes that a document is inaccurate, the student can request for an amendment of the same, which will be reviewed in a week. The department head shall amend the same if inaccurate / misleading or notify the student of the right for a hearing in which the student can present any evidence to support or refute the contention that the record is inaccurate.

Any other department/concerned official within the university will have access only on a "need to know basis", with the permission granted by the Asst. Director of Admissions/Dean or President. Any disclosure to third party will be only after receiving the request along with the written consent of the student.

3. Identification, description and location of records: Various departments create and maintain files containing Education Records for students. Although more than one department or unit may maintain a copy of a particular record, student should direct a request to the appropriate department which is responsible for that record.

8.10.1 Academic Records with the Office of Admissions & Registration:

The office of Admissions & Registration maintain the master file of the student's cumulative history. The student records (hard copies) are kept in Fireproof Lockers inside the Record room in the Office of Admissions & Registration.

It comprises of 3 major components/sections:

a) Admission & Registration Documents:

This comprise of 12th grade marks copy, TOEFL or IELTS or equivalent score, certificate of good conduct/referral letter, Emirates ID & Passport copy showing valid residence visa, photographs and any other document that will be relevant to the program admitted to as mentioned in the Admission Bulletin. As per the CAA notification, no original documents will be filed. Only photocopies are filed. Originals are returned immediately after verification.

b) Document copies of academic progress throughout the semesters:

Copies Semester grade sheets, any notices served to student for fail/repeat examinations.

Any academic dismissal or disciplinary action taken for academic/non-academic reasons such as misconduct / non- compliance of rules and regulations that may affect his academic progress.

c) Miscellaneous documents:

Copy of any student request/communication to Dean/other administrative departments for bona-fide letter, etc. After the admission is over, the continuous academic record of the student will be filed by the Dean's office. Dean's office will nominate one or two persons to directly visit the Record Room in the Admissions Office and update the student master file on a bi-monthly basis. The responsibility of maintaining the student's documents related to academic record/ continuous progress will be with the office of the Dean. Soft copy of all document copies are maintained in the University Management System in a phase by phase manner. Server back-up is done on routine basis and also the document copies/record can be retrieved off-site.

The overall responsibility of the Student Records once filed will be with the Head of the Office of Admissions & Registration.

For copy of any document related to admission student has to place a request to the Asst. Director of the office for Admissions & Registration.

8.10.2 Academic Records with the College or Department :

The college/department which is responsible directly for the function maintains the students individual records such as grade sheet issuance/advisor notes/course materials etc. For information regarding these records, the following offices have to be contacted.

Dean of the College of Medicine/Dentistry/Pharmacy/Nursing; Dean of Examinations

8.10.3 Financial & Administrative Records:

- a) The Finance department maintains a record of student account transactions, including billing, payment and refund information. Also information of students availing Financial Aid/grants/scholarships are maintained. Student may forward any request to Assistant Director of Finance.
- b) The Administration department provides the student ID, co-ordinates health insurance services and student visa services. Student may forward any request to the Executive handling the responsibility in Administration department.
- c) Student Services Records: The Student Services department maintains records related to activities of students. A calendar or schedule of events/activities are prepared before the start of the academic year and activities are informed regularly to the students. Records pertaining to sports, transportation are also maintained by this office.

8.10.4 Student Records - Maintenance & Disposal:

Maintenance and access to student records will be as per section 5.7 of the Standards for Licensure and Accreditation of the Commission for Academic Accreditation, Ministry of Education, UAE.

Student records at RAKMHSU will be retained for a period of 10 years from the year of graduating. By this time period, it is estimated that a student having completed 4 to 5 years of study would have completed his internship and Master program/ higher education and would be successfully practicing his profession. Upon graduation student files will be moved outside the student record room into a storage area in fire proof lockers and after the said period of 10 years after graduation would be destroyed with a shredding machine in the presence of representatives of both Dean's office and Office of Admissions & Registration.

Scanned soft copies of completed student records however will be maintained for another 5 years in the University Management System.

8.11. Withdrawal Policy

8.11.1 Purpose

The university is committed to helping students be successful in their courses and remain on track to complete their educational goals, however on some occasions it might be in the best interest of the student /the college that a student withdraws from a semester/courses offered prior to the end of the program.

8.11.2 Scope

This policy applies to all students who are enrolled at different colleges/programs at RAKMHSU.

8.11.3 General

Before withdrawing from a course, a student is strongly encouraged to discuss her/his situation with her/his Academic Advisor and Dean to see if any other remedies (other than course withdrawal) might be available. A student should withdraw from a program only as a last resort and only for a substantial reason.

Ultimately, if a student finds it necessary to withdraw from a course or from courses, she or he must follow the procedure specified by the college.

The college may initiate a withdrawal for one or more of the following reasons:

1. The student lacks the appropriate prerequisite(s) for the program.
2. The student's attendance or participation in the class fails to meet established standards;
3. The student has engaged in behavior that interferes with the instructional process or needs a break for any personal reason; and/or
4. The student is not in good financial standing with the college.
5. The student is wanting to transfer to the other University.
6. The student is not able to cope up the stress and wanting to switch to other program.
7. The student is not getting his/her visa from UAE

When the student withdraws in a semester, the following conditions apply:

- If the withdrawal takes place within the established refund period for the semester, a student will receive a refund. Otherwise, the student will not receive a refund.
- As described in the Catalog, registration for all courses listed for the semester is mandatory therefore student does not have the option from withdrawing from a few courses but has to withdraw from all courses in that particular semester.

Procedure: Student has to fill the Withdrawal Form after meeting the Dean and citing the reasons for the same. After which, student has to complete the No-Dues Certificate and obtain the signatures of different heads of departments. The student will NOT receive any grade for the courses withdrawn in the transcript for any courses end year/semester examinations not taken.

- Student is allowed to withdraw any time of his studies, and gets refund if the withdrawal is within the grace time from the registration. Refer to refund policy as stated in the catalog chapter Financial Information.
- Student has clear all the financial dues if any.
- On withdrawal, Student's academic record at RAKMHSU will be closed and student will not be allowed access to UMS and to review his student academic records.
- Student is eligible to get transcript/good standing certificate for the courses completed so far.

8.12 Readmission Policy

The re-admission policy is applicable for both students of Bachelors and Masters Programs.

Students who leave the University in good standing may resume their studies by submitting a written request to the Dean of the College. A re-admission fee of AED 500 will have to be remitted in addition to the tuition fee. Students will be notified in writing of their readmission status.

Students who have withdrawn from the University and wish to resume their education should also write a letter of appeal addressed to Dean of their college or program and make an appointment for an interview with a member of the advising staff of their college or program.

All previous course work at the University remains part of the permanent record for students who have been readmitted, and the cumulative average includes all prior grades, regardless of how much time elapsed between enrollments. For deadlines and more specific information students have check with their faculty advisor or office of the Dean.

Any student that has failed to maintain continuous registration and who wishes to resume his/her pursuit of the degree must apply for readmission and will be subject to the policies and requirements in effect at the time of readmission. Before an applicant can be readmitted, the request must be approved by the Dean of the College.

8.12.1 Timelines for Re-admission

Student should address the request for re-admission at least two weeks before the beginning of the semester for which the application is being made. Readmitted students must meet the program and fee requirements that pertain at the time of their readmission. In addition, it is within the College Dean's discretion to disallow any previously taken courses from counting toward the readmitted student's degree program especially if the courses taken much earlier were outdated.

Eligibility for readmission is limited to students who were in good standing at the time of their withdrawal, and who are still meeting all the regulations governing the completion of the degree.

8.13 Postponement of Study/Leave of Absence

If a student wishes to postpone his/her study for any reason, she/he must submit a request letter to the Office of Examinations. The period of postponement will be up to a maximum of one academic year during the entire period of study.

If a student wishes to postpone his/her study for any reason, she/he must submit a request letter to the Office of Examinations. The period of postponement will be up to a maximum of one academic year during the entire period of study.

- Leave of absence for personal and non-medical reasons is processed by the Dean of the respective Colleges upon receipt of a written request from the student.
- Leave of absence may be granted to students, who are in good academic standing (GPA > 2.0).
- For medical leave of absence, students must proceed through the Dean of the College to the Office of Examinations.
- Granting of medical leave will not entitle the student to appear for any exam if the attendance is less than 75% (75% in clinical component)

9. Financial Information

The Board of Trustees of the University fixes the fee and reserves the right to amend or add to the regulations concerning fees and the method of their payment, and to make such changes applicable to present, as well as to future students. The following fee structure is applicable for the new intake students of 2021-22 registered in various programs at RAKMHSU:

9.1 Tuition and Other Fees

i) Applicable at the time of application / admission:

S.No	Fee Details	Amount (AED)	Applicable to
1	Application Fee (one time)	500	First year and Transfer students
2	Admission Fee (one time)	2,500	For all programs
3	Lab and Library Fee (per annum)	1,000	For all programs
4	Transfer Application Processing Fee	500	Transfer students at the time of joining
5	Readmission Fee	500	Repeating / rejoining students

ii) Tuition Fee (payable semester wise):

S.No	Programs	Amount (AED)	Remarks
1	MBBS	55,000	
2	BDS	44,500	Summer semester AED 2000 per credit hour
3	B. Pharm	19,000	After applying concession on the declared fee of AED 22,500 per semester
4	BSN	16,000	After applying concession on the declared fee of AED 20,000 per semester
5	RNBSN	13,500	After applying concession on the declared fee of AED 20,000 per semester
6	Nursing Conversion Program*	14,000	

* Short Term Course - No other fee is applicable

iii) Exam Fees:

S.No	Programs	Amount (AED)
1	MBBS (per annum)	2,000
2	BDS (per annum)	2,000
3	B. Pharm (per semester)	1,500
4	BSN (per annum)	2,000
5	RNBSN (per annum)	2,000

iv) Other Fee:

S.No	Fee Details	Amount (AED)	Applicable to
1	Late Registration Fee per semester	500	Students registered after the due date in a semester
2	Clinical Rotation Fee per semester	1,500	MBBS (Year III, IV & V year students)
3	Industrial Training Fee per semester	7,500	B. Pharm. (Year IV)
4	IFOM Exam Fee per annum	1,000	MBBS (Year I, II & III year)
5	Convocation Fee	1,500	Final Year students (all programs)
6	BLS Course Fee	420	MBBS (Year V) & optional for other students
7	Uniform Fee per annum	1,100	BSN (Year I)
		420	RNBSN (Year I)
8	Student Nurses Forum Fee per annum	100	BSN / RNBSN
9	Mal-Practice Insurance Fee per annum	150	BSN (Year 3 & 4) - Mandatory RNBSN – Optional for those who are working in hospitals
10	Cheque Bounced Charges	500	For each instance

v) Optional Fee:

S.No	Fee Details	Amount (AED)	Applicable to
1	Examination Paper Review	200	per course
2	Replacement of Student ID card	105	---
3	Replacement of Health Insurance Card	105	---
4	Issue of Duplicate Hall Ticket	50	---
5	Course Description Fee	50	---
6	Log Book Fee (additional)	60	For MBBS Program
		50	For B. Pharm Program
7	Student's Permanent Academic Record Fee	300	For UG Programs

S.No	Fee Details	Amount (AED)	
8	Additional Transcript Fee	30	---
9	Certificate 'To Whom it may concern'	30	---
10	Certificate of Status Fee / Fee Advice	30	---
11	Name Badge Fee (additional)	30	---
12	Student ID Card Tag Fee	10	---
13	Duplicate Locker Key	30	---
14	Degree Certificate Reprinting	525	
15	IELTS Course Fee	1,000	
16	Health Insurance Fee per annum	2,300	For Expatriate students

vi) Visa Fee (Optional):

S.No	Fee Details	Amount (AED)	Remarks
1	Visa Fee for foreign students per annum	2,100	including EIDA Card
2	Visa Security Deposit	2,000	onetime fee – refundable
3	In country and local amendment fee	750	if applicable
4	Visa Cancellation Fee	300	at the time of visa cancellation

Note: In case of visa rejected by the Immigration department after applying for the student visa, an amount of AED 500 will be deducted from the Visa fee and the balance will be refunded to the student.

Vii) Transport Fee per Semester (Optional)

S.No	Fee Details	Amount (AED)
1	From Dubai, Sharjah, Ajman & UAQ	5,775

* For transportation minimum 5 students must be registered for each zone to provide the service.

As per Federal Decree Law No. 8 of 2017, Value Added Tax [VAT] applied on certain fees at the standard rate of 5%. RAKCODS is academically a constituent college of RAKMHSU and financially managed separately, therefore VAT will differ for the fee components of BDS Program.

9.1.1 Student Residence Facility:

Students of RAKMHSU are provided hostel facilities in the Student Residence Facility the Government of Ras Al Khaimah has built in the American University of Ras Al Khaimah (AURAK) Campus. Hostel fees are not under the purview of RAKMHSU. The current fee structure is available from the Admissions Office or Student Affairs Unit at RAKMHSU.

9.1.2 Tuition fees for Readmitted and Transferred Students:

Readmitted or students transferred from another institution who are not required to take all courses of the semester they are readmitted or transferred to shall only pay fees on a pro rata basis according to the total number of credits in the courses they are required to take in that semester. For all the following semesters, full semester fees will be levied.

Any student enrolled in a program in RAKMHSU who transfers to another program with higher tuition fees will be considered to have entered the program with the higher fees from Semester I of that program. Accordingly any such student will pay the balance of the higher fee calculated from the first semester. There will, however, be no refund of fees when a student transfers from a program with higher tuition fees to one with lower fees.

9.1.3 Registration of Students:

- a) Registration of student/s is deemed to be complete upon confirmation of admission to the University, along with payment of all fees for the respective semester.
- b) Students will be allowed to pay the fee in two installments in each semester. In order to complete the registration process, a post-dated cheque for the second installment has to be mandatorily submitted along with the first installment on or before the registration date.
- c) Any student who has **NOT** paid his/her respective semester fees in full will **NOT** be registered in the University Management System [UMS]

9.1.4 Concession in Tuition Fee:

A) MBBS Program

20% concession in the tuition fee is provided for all students securing above 95%, in overall aggregate in 12th grade/UAE NGSSE/equivalent. This concession is limited to the first year only.

15% concession in the tuition fee is provided for all students securing above 90%, in overall aggregate in 12th grade/UAE NGSSE/equivalent. This concession is limited to the first year only.

Subsequently, a student who secures annual Grade Point Average of 3.8 or above on a 4.0 scale in the year end exams, will be entitled for a 15% concession in the tuition fee for the following year.

B) BDS Program

20% concession in the tuition fee is provided for all students securing above 95%, in overall aggregate in 12th grade/UAE NGSSE/equivalent. This concession is limited to the first year only.

15% concession in the tuition fee is provided for all students securing above 90%, in overall aggregate in 12th grade/UAE NGSSE/equivalent. This concession is limited to the first year only.

Subsequently, a student who secures annual Grade Point Average of 3.8 or above on a 4.0 scale in the year end exams, will be entitled for a 20% concession in the tuition fee for the following year.

C) B.Pharm Program

20% concession in the tuition fee is provided for all students securing above 95%, in overall aggregate in 12th grade/UAE NGSSE/equivalent. This concession is limited to the first semester only.

15% concession in the tuition fee is provided for all students securing above 90%, in overall aggregate in 12th grade/UAE NGSSE/equivalent. This concession is limited to the first semester only.

Subsequently, a student who secures annual Grade Point Average of 3.8 or above on a 4.0 scale in the year end exams, will be entitled for a 15% concession in the tuition fee for the following semester.

- D) In the case of BSN/RNBSN Program, the University has already given a maximum discount against the declared fee in the Admission Brochure, therefore no other discounts including merit scholarships will be given to any student.
- E) For eligible students, only one fee concession (whichever is higher) will be given in a semester.

9.1.5 Late Registration Fee:

- After the expiry of registration date, students will be allowed to register within the following five University working days, to settle the fees due along with a late registration fee of AED 500/-.
- Student/s will NOT be eligible to enroll after the expiry of late registration date.
- Attendance shall be marked to the student in UMS software ONLY FROM the date of settlement of all financial obligations to the University.
- Students are advised to pay the fees on time and avoid any issues that may lead to invalidation of attendance, non-eligibility for appearing in examination/s, / loss of a semester / academic year etc. The students should also notify any delay in Registration to the Dean of the respective College immediately.

9.1.6 Eligibility for registration of students:

- Student/s is/are deemed to be eligible for registration UPON successful completion and meeting all the examination criteria for promotion for the subsequent semester.
- Mere payment of fees does not automatically qualify any student to be promoted to the subsequent semester/year of study.
- In case where any student is eventually found to be NOT eligible for promotion, the fees amount already paid in advance by the student for the next semester/year of study will be adjusted against the fees for repeating the module/course/semester.

9.1.7 Action against non-registration:

Actions that shall be initiated after the expiry of late registration date unless the University gives special approval to continue to attend classes:

- a) The official University email ID of student will be suspended
- b) Student's name will be suspended from the clinical clerkship rotations, wherever applicable
- c) Student's name will be suspended from UMS portal

9.1.8 Policy for cheque bounce

- a) In case of cheque bounce, the respective student will be liable to pay a fine of AED 500/- [applicable on each such occasion] to the University and in addition to the fine, the entire fee dues must be cleared within five University working days from the date of cheque bounce. In case of any further delay to settle the fee dues, appropriate **LEGAL ACTION** will be initiated as per the UAE laws.
- b) Such student/parent/guardian/sponsor whose cheque/s has bounced will forego the opportunity of payment/s through cheque/s and henceforth for the remaining semester/s, they will pay by **CASH** [UAE Dirham] only.

9.1.9 Refund Policy (applicable only for Tuition & Transport Fee) – All other fees once paid are non-refundable:

Requests for refund should be made at the Office of Admission & Registration by submitting a written request of withdrawal / e-mail along with original fee receipt. Refund will be made only after clearance of all dues, if any, to the University. On approval, the amount shall be refunded as mentioned below:

Refund Request Submission-Timeline for all Programs	Amount Eligible for Refund
Any time after admission and tuition fee payment until 31st July 2021	50% of the tuition fee for the semester. All other fees once paid are non-refundable
On or after 1st August 2021	No Refund of any fees

** The above refund request submission is not applicable for early reserved cases*

Refund of Transport Fee

Students who decide not to avail the bus facility within two weeks from the date of commencement of classes will be refunded 50% of the transport fee. Beyond two weeks, the total fee paid is non-refundable.

For subsequent semesters, all fees once paid are non-refundable.

9.2 Bank Loan Assistance:

On request by the student, the University will issue a bonafide certificate along with the statement of annual expenditure for the program to enable students to obtain the maximum educational loan from the banks. The student is ultimately responsible for resolving all issues involving loan delinquencies, defaults, and/or any other circumstances that would result in the student being ineligible to borrow through any loan program.

9.3 Health Insurance:

Health insurance coverage is essential for all students studying in RAKMHSU and the insurance fee is collected along with the tuition fee, on or before the scheduled date for the fee payment. Students who have their own medical insurance arrangements, shall submit a copy of the valid health insurance card to the University for records.

The student should opt for the university provided health insurance card by 30th September of each academic year. The university will not be able to enroll new members in the insurance scheme on or after 1st October, as per the contract between the university and the health insurance company.

10.Students' Affairs

10.1 Students' Rights and Responsibilities

Detailed information on students' rights and responsibilities are found in Sections 4 and 5 of the Student Handbook

- The University ensures academic freedom of the students and fosters intellectual development in an atmosphere of active engagement in the educational process, and encourages free discussion, free inquiry and free expression regarding issues within the domain of the course or program are encouraged.
- Students are evaluated on the basis of their academic and clinical performance.
- Information obtained from students in the course of counseling, teaching or advisory meetings shall be confidential except under exceptional circumstances. Such circumstances include situations where there may be potential harm to another individual, faculty member may be prevented from fulfilling his/her responsibility or when the safety of the society or the reputation and integrity of the University is at stake.
- Students have freedom of speech and expression, so long as it does not violate laws of the country, rules, policies and procedures of the University, or adversely affect the function of the University or any member of the university community.
- Publications by Official Student Bodies have editorial freedom, but shall be subject to review Faculty Advisors. Posters and other similar written notices must be registered with the Office of the Student Affairs, before it is to be distributed or displayed in locations designated for such purposes.
- Students should use information technology in keeping with the regulations of the University.
- The students are encouraged to express their views through established channels, on issues of College/University policy and on matters of general interest to the student body.
- Official records of students are held in confidence by the University. Students have access to their records by submitting a written request. Student records are available to the Faculty Advisor, Dean, and Department Chairperson on request.
- Photo identification cards are issued free of charge to all new students during orientation week. Identification cards must be worn at all times and shown on request to university authorities. Students should report lost cards to the Office of the Finance and Administration and obtain a replacement, paying a fee.
- All health science professionals shall be groomed and dressed in a manner which will help them to attract respect from their patients and the society in general. Detailed dress code for female and male students appears in the Student Handbook.
- The University encourages scholarly activities among its faculty and students. These include research and participation in conferences and other scientific meetings. However all such activities should be performed following the regulations of the University.

- Students of RAKMHSU are encouraged to participate in various developmental activities. Students will be nominated for various committees such as Library Committee, Academic Advising Committee, IT Services Committee, Grievance Redressal Committee, Sports and Cultural Activities Committee, etc.

10.2 Academic Support Services

Detailed information is available in Section 6 of the Student Handbook

- The University provides counseling services to help students to overcome obstacles to academic progress, to examine personal and intellectual strengths and weaknesses, and to learn skills which promote personal and intellectual development.
- Personality development workshops provide students with opportunities to develop personal management skills to enable them to succeed academically as well as personally. Programs include topics such as managing procrastination, performance anxiety, stress management, communication skills, assertiveness, anger management and building healthy relationships.
- The counseling center provides crisis intervention assistance to the students who are experiencing crises which affect their ability to function in the community
- RAKMHSU provides career services to undergraduates and contributes towards making RAKMHSU graduates develop clarity of purpose and appropriate decision-making abilities, so that students will be confident, selective and competitive in managing their careers and further academic pursuits. The University also creates opportunities for students to make contact with prospective employers.

10.3 Student Support Services

Please also refer to Section 7 of the Student Handbook

- Learning Skills and Tutorial Programs: The Office of Student Affairs organizes workshops on personality management, time management, test-taking, vocabulary development and stress management.
- Dining Services: The cafeteria is located at the students' center to provide hygienic and cost effective meals and refreshments to the students throughout the weekdays.
- Residence Halls: Government of Ras Al Khaimah has built state-of-the-art Student Residence facility in American University of Ras Al Khaimah (AURAK) Campus, for the benefit of students pursuing higher education in various institutions located in Ras Al Khaimah including RAKMHSU.
- Sports Complex: RAKMHSU provides the students with state-of –the –art Sports Complex including multipurpose sports hall, outdoors playground, two GYM halls separately for males and females and Students Lounge accommodating various Activity Clubs.
- Social and Cultural Activities: The Office of the Student Affairs organizes implements and supervises all social, cultural and entertainment programs relating to the students.
- Spiritual Facilities: The University offers separate prayer rooms for men and women.

- **Lost and Found:** The Office of the Students Affairs facilitates identification and the return of items lost/found within the University. Proper proof of identity and acknowledgment of receipt are needed for the returned property.
- **Parking and Transportation:** The University provides free car parking slots to the students subject to availability. Students should register their vehicles at the Office of the Student Affairs. Parking stickers will be issued for registered vehicles.

RAKMHSU provides transportation in air-conditioned shuttle buses to all students from different locations subject to adequate numbers. These locations include Dubai, Sharjah, and Ajman. For detailed information on transportation, students are advised to contact the Office of the Student Affairs.

- **Security:** The University provides on campus security, regulates the campus traffic and parking system, and is authorized to enforce all related security regulations on a 24 hour basis
- **Student Health Services:** Students are eligible for health services through the health insurance scheme in designated hospitals and clinics. Ras Al Khaimah has many pharmacy outlets which offer a full range of medication for health insurance holders.

10.4 Student Council

Please see further information in Section 8 of Student Handbook

Students Council is elected at the beginning of every academic with a mandate to promote the common interest of students and operate in a manner consistent with the University's mission and code of conduct.

10.5 University Guide to Student Behavior

A detailed account is available in Section 9 of the Student Handbook

- RAKMHSU stands for the human dignity and worth of every person and believes therefore, in values that foster the human respect needed for people to live, work, study and recreate together as a community. In keeping with this philosophy, RAKMHSU has a code of conduct which promotes the well being of individuals and groups who make up the community.
- Rules and regulations provide the basis for a reasonably ordered life. The mere observance of rules, however, without the cooperation and personal appropriation of the values they protect, falls short of what RAKMHSU hopes for everyone who is part of the community.
- These regulations include policies on student academic integrity and academic honesty. Procedures and policies for disciplinary action are also clearly detailed.
- Student grievance policies and procedures have been formulated to assist students in instances where grievances occur; it is the aim of the University to resolve them amicably and promptly, in a manner that is both fair and equitable to all concerned.
- Dismissal of a student for adequate cause: Apart from Academic Dismissal, a student may be dismissed from the University for Disciplinary Reasons. A formal proceeding shall be initiated and followed before such dismissal.

- Policy on Sexual Harassment: The University has zero tolerance on sexual harassment of any member of the university community by another.
- General welfare: Where grievances concern matters of administration, financial matters, or services available to students, students should initiate a discussion with the appropriate member(s) of staff. Discussion will be within the context of the rules and regulations as set out in University publications.

10.6 Academic Honesty

The policy for academic honesty is outlined below:

- All academic work and materials submitted for assessment must be the work of the student.
- Cheating is not only limited to copying from the work of others and providing unauthorized assistance, but also include the use of devices or other surreptitious means for the purpose of obtaining falsely-derived passing scores on examinations.
- Students are prohibited from submitting any material prepared by or purchased from another person or company.
- All students are expected to take the process of education seriously and act responsibly. Students who violate University examination rules are subject to disciplinary action.
- If a student is found to be cheating, the following penalties apply:
 - The students will fail the course in which they were found to be cheating.
 - A disciplinary warning will be added to their file.
 - Subsequent episodes of cheating or academic dishonesty will result in dismissal from the University.
- Plagiarism

Using or/and copying others' materials including thoughts, ideas, language, or expressions, in any format e.g. information, pictures, or charts, without the appropriate acknowledgement and citations is strictly prohibited, and it will be considered as an academic dishonesty.

RAKMHSU has procured Turnitin software for plagiarism checking.

- Student shall follow the rules/regulations of the federal hospitals they are visiting for training, in line with the policies and procedures of that of the organization.
- Students doing research shall follow the policies regarding ethical considerations in research involving human subjects.

10.7 IT Enabled Services and Resources of the University.

1. Information Technology (IT) Department at RAKMHSU ensures that, IT Enabled Services and Resources are available round the clock with easier accessibility from anywhere and any device to the Students, Faculty and Staff Members.

2. IT Department is a Support Center to Design, Develop, Maintain and required IT Enabled Services & Resources of the University to contribute efficiently for the Learning, Teaching, Research and Administrative Activities.
3. Leverage existing, emerging, and innovative IT Enabled Services and Resources to enhance and streamline Learning & Teaching Activities of the University
4. To Ensure the Privacy, Integrity and Reliability of the IT Enabled Services & Resources of the University.
5. Continuous fine-tuning of the IT Enabled Services and Resources by getting feedbacks from Users on their Satisfaction Levels and implement the changes accordingly after proper evaluation and approval by the University.

10.8 IT Resources

1. RoboCampus – UMS is a Tailor-made ERP System with 14 Number of functional modules to facilitate smoother execution of the interlinked Operational workflows to have centrally managed unified Data across the University.
2. Lecture Halls, Labs and PBL Rooms are equipped with the latest configuration of Projectors, LED Screens and Audio Systems for the Effective Teaching & Learning Activities the University.
3. Dedicated Computer Lab with 210 Number of Latest configuration of Desktops to conduct Online Examinations.
4. Computer Lab with 65 Number of Desktops to conduct Regular Sessions.
5. Broadband connection with 250 Mbps for browsing the internet in addition to 16 Mbps Managed Internet Leased Line (ILL) to Access University Resources Off-Campus.
6. Broadband connection with 40 Mbps in Satellite Libraries - Saqr Hospital, Obaidullah Hospital and Fujairah Hospital with other required IT facilities.
7. 1 Gbps of LAN Bandwidth to provide better connectivity and speed from End User's System to Datacenter to Access IT Enabled Resources and Services.
8. Managed Wireless Enabled Services [Wi-Fi] Facility all over the Campus.
9. E-Mail Services Powered by Google with below mentioned features for the effective communication with Students, Faculty & Staff members:
 - Unlimited Mailbox size for each User.
 - Attachment size of up to 25MB.
 - Google Meet, Class Room, Drive, Forms and Allied Applications.
 - Accessible from Anywhere, Any Device and Any Operating System.
 - E-Mail Grouping for Easier communication.
10. Latest configuration of Systems with required Applications are provided to all the Faculty and Staff Members.
11. Avaya Telephone System - PRI Line with 200 Direct Extensions.
12. SafeQ Print Control System facility in Library to provide paid Printing, Photocopying & Scanning Services to the Students.

13. Dedicated Internet Browsing center in Library with more than 35 Number of Desktops.
14. IP Based CCTV Surveillance System with more than 375 Night Vision and High Definition [HD] Cameras to monitor and record Campus Activities round the clock. Designed in line with Ministry of Interiors - Hemaya certified.
15. Interactive & Responsive University website interlinked with IT Enabled Services.
16. Academic Simulation Applications and Visualizers are provided for the effective Learning and teaching.
17. Gyms, Sports Complex and Music Room are configured with the latest configuration of Audio Visual system.
18. Windows Based Network Services
19. Support for Operational specific Services.
20. Centralized Public Address (PA) System for Announcements.

10.8.1 Guidelines to Access University IT Enabled Resources and Services.

IT Department requests to follow below mentioned guidelines to access IT Enabled Services and Resources of the University to maintain privacy and integrity of information.

1. Access University IT Enabled Resources only through Mozilla Firefox web browser for better compatibility and access.
Download Mozilla Firefox from : <https://www.mozilla.org/>
2. Use Minimum 8 characters with the combination of Alphanumerical and special characters in the Password
3. Do Not use Guessable and Easy Passwords.
4. Do Not Disclose Login credentials with any one in any circumstances to protect Privacy and Integrity of the system.
5. Do Not Access University IT Enabled Services from Public Places - Internet cafe, hotspot areas, VPN, unknown systems.
6. Logout from online Resources After the usage.
7. Password Reset: Request to contact IT Department in Person along with University ID card to reset Email Password. However, UMS Password reset can be requested only from your University Email Account, if required.
8. Password Reset request may not be accepted over the phone.

10.8.2 How to Access IT Enabled Services & Resources?

IT Enabled Services and Resources are interlinked with University website – www.rakmhsu.ac.ae for easier access

- RoboCampus - UMS
- E-Mail Services
- Online eResources.
- IT Enabled Services Manual & Support Center Details.

11. Students' Grievance Policy

RAKMHSU seeks to create and maintain a healthy and enjoyable study environment, and one that will enhance personal development.

In instances where grievances occur, it is the aim of the University to resolve them amicably and promptly, in a manner that is both fair and equitable to all concerned.

Complaints or appeals by students to the Office of the Student Affairs, shall be made responsibly.

11.1 Students' Grievance Procedure

To maintain a grievance, the complaining party must allege that he or she has suffered a substantial injury resulting from violation of rights or privileges concerning academic freedom, research or other activities, arising from:

- Acts of discrimination prohibited by the University;
- Failure to comply with rules, regulations, and procedures established by the University;
- Arbitrary and capricious actions on behalf of the University; and
- Retaliation for exercise of protected rights.

11.2 Procedures for implementation of grievance redressal

11.2.1 Informal Resolution

Before instituting a formal grievance, the aggrieved party shall make all reasonable efforts to achieve a resolution of the situation through informal consultation with the appropriate faculty advisor/mentor and administrative officers.

11.2.2 Preliminary Proceedings

If informal consultation fails to resolve the matter, or if the aggrieved student concludes that such consultation is not feasible or would be futile, the aggrieved student shall refer the dispute to the Grievance Redressal Committee, by means of a letter addressed to the Chair on behalf of the University. The letter shall identify the general nature and circumstances of the grievance.

11.2.3 Students' Grievance Redressal Committee

The Grievance Redressal Committee consists of three faculty members with full-time teaching appointments who are nominated by the President based on the recommendations from the respective Deans. In addition, one student representative (President or any office bearer of the Student Council) will also be included.

The Chairperson, who is appointed by the President will convene the Committee upon receipt of a request of an appeal against disciplinary action from a student, and will forward its recommendation to the Dean.

A student may appeal against the Grievance Redressal Committee's decision to the President whose decision is final.

11.2.4 Formal Proceedings

Commencement of Proceedings:

- The aggrieved party may commence formal proceedings by means of a grievance sent to the Chairperson of the Grievance Redressal Committee with a copy to the Dean, Registration on behalf of the University.
- The grievance shall identify the aggrieved party as the “Grievant” and shall name the University as the “Respondent.”
- Within five working days of receipt of the grievance, the Chairperson shall reply in writing, sending copies of the reply to the Dean, Registration and the Grievant. The reply shall set forth with particularity the position of the University with respect to each allegation of the grievance.
- If majority members of the Grievance Redressal Committee, after an opportunity for argument by the parties, agrees that for any of the reasons set out in this section a hearing is not warranted, the grievance shall be dismissed, in whole or in part, and the matters dismissed shall be deemed closed.
- On the determination that a hearing is warranted, the Chairperson shall establish a schedule for the hearing. Grievances shall be heard and decided with reasonable dispatch, and ordinarily shall be completed within five working days after the determination that a hearing is warranted. However, due consideration shall be given to the University’s normal academic calendar.
- A grievance procedure is not a formal judicial proceeding. Its purpose is to provide a fair evaluation of an allegation that a right or privilege has been violated. In order to achieve that end, the Grievance Redressal Committee shall have authority to call any material witness who is a member of the University faculty, administration, or staff and any other student who is willing to testify; to question parties and witnesses; to exclude matters it deems irrelevant; to place reasonable limits on arguments, the presentation of evidence, and the questioning of witnesses by the parties.
- The University will make a reasonable effort to facilitate the appearance of all faculty, administration, staff and students reasonably called to testify.
- The procedure at the hearings shall be informal but shall comply with the requirements of fairness to the parties.
- A party shall be entitled to inspect and copy, in advance of the hearing, all relevant documents in the control of the other party and not privileged, and may offer such documents or excerpts there from in evidence.
- The parties shall be entitled to present opening and closing statements.
- If necessary, a tape recording of the hearing shall be made and one copy shall be kept on file by the University.

- At the conclusion of the presentation of evidence and argument from both sides, the Committee shall convene a closed session to deliberate and reach a decision.
- In rendering its decision, the Grievance Redressal Committee shall determine whether the Grievant has established by clear and convincing evidence that he or she has suffered a substantial injury.
- The Grievance Redressal Committee shall render its findings and recommendations in a written opinion that shall state the number of members subscribing to the opinion, and shall include dissenting opinions, if any. This opinion shall be submitted to the Chair of the Grievance Redressal Committee, and copies shall be transmitted to the parties and to the Dean of the College.

11.2.5 Final Disposition

The Grievance Redressal Committee shall discuss its findings with the President and the final decision shall be implemented by the University upon discussion with the President.

11.2.6 Dismissal of a student for adequate cause

Apart from Academic Dismissal, which is explained in detail in the Catalog, the student may be dismissed from the university on his/her misconduct either with his/her fellow students/staff, or on any other ground which the university deems necessary. A formal proceeding shall be initiated before such dismissal.

11.2.7 Commencement of Proceedings

- Proceedings to dismiss a student for adequate cause may be commenced by a complaint, addressed to the Chairperson of the Grievance Redressal Committee. During the proceeding, the student shall be suspended from attending the classes, library or any other academic activity. A copy of the complaint shall be delivered in hand to the student concerned, sends a copy through email and/or shall also be sent by courier to the student's residence.
- Within five working days of the receipt of the complaint, the student concerned shall reply in writing, sending copies of the reply to the Chairperson of the Grievance Redressal Committee and to the Dean of the College. The reply shall set forth with particularity the responding student's position with respect to each allegation of the complaint.
- Upon receipt of the complaint, the Grievance Redressal Committee shall deliberate the issue and take a final decision in consultation with the President.

12. General Education at RAKMHSU

12.1 General Education Curriculum

The General Education curriculum is designed to provide students with an opportunity to develop their academic skills, enhance their capacity for intellectual inquiry and critical reasoning, learn effective communication, shape individual values, prepare them to function in a rapidly changing digital world in their academic, professional, personal and social lives as a foundation for lifelong learning.

The Curriculum is designed to develop collegial skills in English, Arabic, Information Technology and Social Sciences. Each course is customized in accordance with the program needs of the constituent colleges.

12.2 General Objectives

1. Communicate effectively in both English and Arabic.
2. Employ empathy with patients and people in general.
3. Utilize research findings to improve quality of medical and health science practices, and education.
4. Demonstrate cultural awareness and competence in a multicultural environment.
5. Apply critical thinking and make evidence based decisions in the healthcare professions individually and in teams.
6. Demonstrate teamwork with colleagues and other health professionals.
7. Appreciate ethical and good practices in health sciences profession for the general good of humankind.

The General Education Courses are common for the students of all health sciences disciplines and is in keeping with the University Mission.

Program wise General Education Courses:

12.3 General Education Courses offered for Medical (MBBS) Program

S. No.	Course No	Course Title	Credits
1	ENG 101	English	3
2	ENG 201	Health Sciences Communication in English	3
3	CSK 101	Computer Skills	3
4	PSY 201	Psychology & Behavioral Sciences	3
5	ARB 101	Health Sciences Communication in Arabic	3
6	ICM 101	Islamic Culture and Medicine	3

12.3.1 Course Description

ENG 101 English

Credits : (3+0=3)

Course Prerequisite: None

Course Summary: This course covers the basic skills of English language required for students of Medicine. This course includes the use of professional English in medicine including medical terminology with correct pronunciation. It hones the students' English language skills to read, write, listen and speak effectively in medical contexts.

ENG 201 Health Sciences Communication in English

Credits : (3+0=3)

Course Prerequisite: ENG 101

Course Summary: This course Health Sciences Communication in English covers the soft skills required for a medical professional to interact with patients and their families. At every level, it emphasizes on Empathy, Active Listening, and Critical Thinking Skills while interacting with patients, their families as well as with their own colleagues. Students are exposed to techniques of communicating in different contexts. Public Speaking skills including conference presentations are practiced.

CSK 101 Computer Skills

Credits : (3+0=3)

Course Prerequisite: None

Course Summary: The Computer Skills course is designed to provide students with basic Information Technology (IT) to equip them with the essential skills required as healthcare professionals. This course covers system security, communications and a variety of computer applications including Word, Excel and PowerPoint.

The students are exposed to input-output devices, which will be helpful in their future career. The course also includes discussions on the impact of information technology on various aspects of healthcare.

PSY 201 Psychology and Behavioral Sciences

Credits : (3+0=3)

Course Prerequisite: None

Course Summary: Psychology is the study of human behavior and consists of various psychological principles and theories that enhance one's understanding of human thoughts, emotions and behaviors. This course includes psychological principles as learning, behavior, emotions and personality development that will aid in the comprehensive management of patients required for medical professionals. It also includes the practical skills of counseling and motivational interviewing that are integral components of good medical practice

ARB 101 Health Sciences Communication in Arabic

Credits : (3+0=3)

Course Prerequisite: None

Course Summary: This course adopts a variety of language situations to assimilate everyday life issues for students of medical and health sciences. Different issues related to daily life such as greetings and introductions are covered through oral dialogues. The course gives priority to pronunciation and correct articulation while speaking in Arabic.

ICM 101 Islamic Culture and Medicine

Credits: (3+0=3)

Course Prerequisite: None

Course Summary: Islamic Culture and Medicine course introduces the concept of medicine in Islamic belief. The course covers the pillars of Islamic faith, the ethical and moral issues, rights and duties and allowance and forbiddance of certain surgeries and procedures related to medicine in accordance with Islamic belief.

12.4 General Education Courses offered for Dental (BDS) Program

S. No.	Course No	Course Title	Credits
1	ENG 101	English	3
2	HSE 101	Health Sciences Communication in English	3
3	ARB 101	Health Sciences Communication in Arabic	3
4	ICM 101	Islamic Culture and Medicine	3
5	ITI 101	Information Technology and Innovation	3
6	EMS 101	Emirates Society	3
7	BRM 101	Biostatistics and Research Methodology	3

12.4.1 Course Description

ENG 101 English

Credits: (3+0=3)

Course Summary: The course provides the basic skills of the English language required in dental practice. It covers college level writing standards, reading for comprehension purposes, editing techniques, and organization of material to express themselves clearly and effectively. Students will be familiarized with basic Medical/Dental terminology. Faculty will facilitate learning through interactive lecture sessions, group discussions and team based learning.

HSE 101 Health Sciences Communication in English

Credits: (3+0=3)

Course Summary: The Health Sciences Communication in English course is to provide the students with the essential skills and competencies needed for professionals in health care. The course aims to train students to be able to communicate with clarity, sensitivity, and effectiveness in their interaction as Dentists to communicate with patients and their families. The course focuses on Empathy and Active Listening Skills while interacting with patients, their families as well as their own colleagues to achieve desired patient outcomes. It also focuses on Public Speaking skills, including conference presentations. Faculty will facilitate learning through interactive lecture sessions and group discussions.

ARB 101 Health Sciences Communication in Arabic

Credits: (3+0=3)

Course Summary: This course provides the students with the basic knowledge and skills of communication in Arabic language with patients and healthcare staff. The course also focuses on reading and listening for understanding to prepare them for real life situations. The course gives priority to pronunciation and correct articulation while speaking in Arabic. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and practice.

ICM 201 Islamic Culture and Medicine**Credits: (3+0=3)**

Course Summary: This course provides discussion on the current medical and scientific issues through the Islamic perspective. It focusses on developing an understanding and appreciation of Islamic contribution to medicine in particular and science in general. The course aims at engaging in students' awareness about Islamic Codes related to health and medicine. Learning is facilitated through interactive lecture sessions, group discussions and self-directed learning.

ITI 101 Information Technology and Innovation**Credits (2+1=3)**

Course Summary: Innovation in Information Technology is a three-credit course offered in first semester of the first year Dental program. The goal of the course focuses on identifying the components of the information systems namely, the hardware, software and connectivity. It also focuses on operating system environment, Internet, social media, telecommunication; as well as the ethical use of electronic data in health informatics and health information system. It also directs the students to apply the rules of problem solving related to health sciences through the effective utilization of information technology equipped with Artificial intelligence, Machine learning, 5G technology, Internet of Things, and Machine learning. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and demonstrations.

EMS 101 Emirates Society**Credits (3+0=3)**

Course Summary: The course explain the basic knowledge related to the nature of the UAE Society. It also helps students to understand the geography, historical roots, and evolution of statehood, cultural & educational development, economic development and diversification of income, social development, population structure, and foreign policy and future aspirations of UAE.

BRM 101 Biostatistics and Research Methodology**Credits: (3+0=3)**

Course Summary: This course is designed to teach students how to find, evaluate and apply research evidence to make decisions regarding the care of their patients. Also, this course provides the students an opportunity to perform innovative, multidisciplinary research in diagnosis, prevention and treatment of dental and oral health related diseases. The students select a suitable topic for research in dental sciences under guidance of the course coordinator and a member of the dental faculty. Students learn how to work independently and be creative in their thoughts and ideas. The course offers knowledge on application of the basic principles of research design, methods of data collection and how to analyze them in dental health sciences. The course also provides the steps necessary to design and write a research project

12.5 General Education Courses offered for Pharmacy (B.Pharm) Program

S. No.	Course No	Course Title	Credits
1	PEN 103	English	3
2	PEN 203	Health Sciences Communication in English	3
3	PIT 102	Information Technology for Pharmacy	2
5	PAR 103	Health Sciences Communication in Arabic	3
6	PES - 202	Emirates Society	2
7	PIC 202	Islamic Culture and Medicine	3
8	PBR 403	Biostatistics and Research Methodology	2

12.5.1 Course Description

PEN 103 English

Credits : (3+0=3)

Course Prerequisite: None

Course Summary: Course Summary: English is a three credit course offered in the 1st semester of the B.Pharm Program. The primary goal of this course is to develop writing skills of pharmaceutical sciences students to generate and express their ideas clearly, correctly and effectively.

It covers college level writing standards, reading for comprehension purposes, prewriting techniques, and organization of material and to express themselves in speech. Students will be able to write fluent and logical compositions from small paragraph to multi paragraph essays for various purposes in the health sciences context.

They will also be familiarized with basic medical/ pharmacy terminology. Learning is facilitated through interactive lecture sessions, written test, group discussions, self-directed learning and team based learning.

PEN 203 Health Sciences Communication in English

Credits : (3+0=3)

Course Prerequisite: English (PEN 103)

Course Summary: The Health Sciences Communication in English course is a three-credit course offered in the second semester of B. Pharm program. The primary goal of this course is to provide students with the essential skills and competencies needed for professionals in health care. The course aims to train students to be able to communicate with clarity, sensitivity, and effectiveness in their interaction with patients and their families. The course focuses on Empathy and Active Listening Skills while interacting with patients, their families, as well as their own colleagues to achieve desired outcomes. It also focuses on Public Speaking skills including conference presentations. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, team based learning and simulated situations.

PIT 102 Information Technology for Pharmacy**Credits : (2+0=2)****Course Prerequisite: None**

Course Summary: Information Technology for Pharmacy is a two credit course offered in the first semester of the B.Pharm program. The main goal of the course is to train competent users of Information Technology in pharmaceutical sciences in an ever-changing world. The course focusses on identifying the components of the system namely, the working of computer storage, processes and displays data, use of input/output devices, effective use of networks, Internet, and other communication tools as well as the ethical use of computers in healthcare and society. It also directs them to apply their knowledge to solve problems related to health sciences through the effective utilization of information technology. Learning is facilitated through interactive lecture sessions, written test, group discussions, self-directed learning and team based learning.

PAR 103 Health Sciences Communication in Arabic**Credits : (3+0=3)****Course Prerequisite: None**

Course Summary: Health Sciences Communication in Arabic is a three-credit course offered in the first semester of the B.Pharm program. The foremost goal of this course is to equip the students of pharmaceutical sciences with the basic skills of communicating in Arabic language with patients and healthcare staff. The course also focuses on reading and listening for understanding to prepare them for real life situations. The course gives priority to pronunciation and correct articulation while speaking in Arabic. Learning is facilitated through interactive lecture sessions, written test, group discussions, self-directed learning and team based learning.

PES – 102 Emirates Society**Credits : (2+0=2)****Course Prerequisite: None**

Course Summary: The Emirates society course is a two credits course offered in the first semester of Bpharm program, the course seeks to consolidate national belonging and identity and appreciate national achievements of the United Arab Emirates. The course focuses on introducing students to the main social features of Emirati community and its core values and heritage, as well as the history and geography of the country. It discusses the internal and foreign policy, social development and services provided by the State, including the empowerment of women and their role in society. The course also aims to shed light on UAE's role in building an Emirati knowledgeable society, encouraging multiculturalism, and developing solid economic and technological infrastructure, as well as positioning UAE at a global competitive level. The course also includes the future visions and challenges towards developing strategic plans as it will discuss Federal Government Vision and Abu Dhabi's Vision 2030 and the different issues related to future development plans and the expected challenges.

PIC 202 Islamic Culture & Medicine**Credits : (3+0=3)****Course Prerequisite: None**

Course Summary: Islamic Culture and Medicine is a three-credit course offered in the second semester of the B.Pharm program. The main goal of this course is to discuss the current medical and scientific issues through the Islamic perspective. It focusses on developing an understanding and appreciation of Islamic contribution to medicine in particular and science in general. The course aims at engaging in students' awareness about Islamic codes related to health and medicine. Learning is facilitated through interactive lecture sessions, written test, group discussions, self-directed learning.

PBR 403 Biostatistics & Research Methodology**Credits : (2+0=2)****Course Prerequisite: None**

Course Summary: Biostatistics and Research Methodology is a two-credit course offered in the fourth semester of the B.Pharm program. The goal of this course is to provide an understanding of the theory and applications of biostatistics and research in matters related to professional practice. The students are taught various aspects of data handling and analysis. The course enables students to develop abilities to apply statistical methods and critically interpret issues encountered in practice. The course is also designed to assist the students to acquire an understanding of the principles of research methodology for identifying research problems, planning and implementing a research plan. It will further enable the students to critique research studies and recognize the value of utilizing research findings to improve quality of pharmaceutical and health science practices, education and management. Basic aspects of pharmacy practice research are taught covering ethical issues involved in carrying out research in pharmaceutical sciences. The course also deals with the aspects of communicating the research results for publication. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and team based learning.

12.6 General Education Courses offered for Nursing (BSN & RN-BSN) Programs

S. No.	Course No	Course Title	Credits
1	ENG 101	English	2
2	ENG 201	Health Sciences Communication in English	2
3	HIT 101	Health Information Systems for nursing	3
4	ARB 101	Health Sciences Communication in Arabic	2
5	ICM 101	Islamic Culture and Medicine	3
6	ES 101	Emirates Society	3
7	NRS 7304	Nursing Research Methodology and Statistics	4

12.6.1 Course Description

ENG 101 English

Credits : (2+0=2)

Course Prerequisite: None

Course Summary: This course covers the basic skills of the English language that are required at the undergraduate level of studies in Medical & Health Sciences. It focuses on reading, writing, listening and speaking effectively in English. A comprehensive review of essential syntax and semantics required for medical and health sciences education is provided.

ENG 201 Health Sciences Communication in English

Credits : (2+0=2)

Course Prerequisite: ENG 101

Course Summary: The course is need based for professionals in health care. It focuses on the soft skills in the English language required by the medical professional to interact with patients and their families. At every level it emphasizes on empathy and active listening skills while interacting with patients, their families as well as their own colleagues. Students are exposed to techniques of communicating in different contexts encountered by a medical and health sciences professional as well as a whole range of Public speaking skills including conference presentations.

HIT 101 Health Informatics Technology

Credits : (2+1=3)

Course Prerequisite: None

Course Summary: Health Information Systems for nursing is a course that focusses on identifying the components of the information system namely, the working of information systems storage, processes and displays of data, use of input/output devices, effective use of networks, Internet, and other communication tools. as well as the ethical use of computers in healthcare and society, and an introduction to artificial intelligence, Internet of things, 5G, and Augmented reality. It also directs them to apply their knowledge to solve problems related to health sciences through the effective utilization of information technology.

ARB 101 Health Sciences Communication in Arabic

Credits : (2+0=2)

Course Prerequisite: None

Course Summary: This course aims at teaching communication skills in Arabic language. The course focuses on the skills of Reading, Writing, Speaking and Listening. The broad goal of this course is to enable the students to have better understanding of Arabic language to communicate with patients and hospital staff in their profession.

ICM 101 Islamic Culture and Medicine**Credits : (3+0=3)****Course Prerequisite: None**

Course Summary: This course is designed to develop a better understanding of Islamic belief and its application in life besides focusing on current modern medical and science issues in Islam. The broad goal of this course is to enable the students to have better understanding of Islamic medical issues and appreciation of Islam as a way of life, its impact in the field of medicine, the contribution of Islam to medical in general, and to sciences in particular.

ES 101 Emirates Society**Credits : (3+0=3)****Course Prerequisite: None**

Course Summary: The Emirates society course seeks to consolidate national belonging and identity and appreciate national achievements of the United Arab Emirates. The course focuses on introducing students to the main social features of Emirati community and its core values and heritage, as well as the history and geography of the country. It discusses the internal and foreign policy, social development and services provided by the State, including the empowerment of women and their role in society. The course also aims to shed light on UAE's role in building an Emirati knowledgeable society, encouraging multiculturalism, and developing solid economic and technological infrastructure, as well as positioning UAE at a global competitive level. The course also includes the future visions and challenges towards developing strategic plans as it will discuss Federal Government Vision and Abu Dhabi's Vision 2030 and the different issues related to future development plans and the expected challenges.

NRS 7304 Nursing Research Methodology & Statistics**Credits : (3+1=4)****Course Prerequisite: Year 2, Semester I & II Courses**

Course Summary: This course is designed to assist the students to acquire an understanding of the research methodology and statistics and its application to nursing. It will further enable the students to critique research studies and recognize the value of utilizing evidence based nursing practice to improve quality of care. and hospital staff in their profession.

13. RAK College of Medical Sciences

Dean's Message

Since its inception in 2006, the RAK College of Medical Sciences (RAKCOMS) has bloomed to become a leading medical institution in the United Arab Emirates, imparting undergraduate MBBS program. After successful evaluations annually from 2006, the Commission for Academic Accreditation (CAA), Ministry of Education - Higher Education Affairs, UAE, has fully accredited our MBBS program. The



Institution is also listed in the Avicenna Directory (formerly WHO Directory) and the International Medical Education Directory (IMED). The first batch has graduated in July 2011. The institution has got adequate infrastructure and state-of-the art facilities including lecture theatres, laboratories, library and a wonderful ambience for studying Medicine.

Healthcare is a rapidly advancing field with technological innovations as well as challenges posed by emerging new diseases, manmade disasters, ethical issues and consumerism. RAKCOMS is committed to the foundational value of educating and grooming the future physicians for this challenging 21st century scenario. To be a successful physician of the future, the medical student will need the competence to play multiple roles as an ethical physician, a professional team leader, a humanistic citizen and a self-directed lifelong learner. Our MBBS curriculum is outcome based and designed to fulfill these requirements in the training program. More than 120 well qualified and trained faculty from 17 nationalities are involved in the training process. The courses are well defined with clear learning outcomes and suited to develop the knowledge, skills and attitude of the students. Ample time is given for students to undertake self-directed learning. 'Clinical Decision Making' is a unique credit based course implemented for the first time in our university in the UAE and this course is spread out throughout the MBBS program which enables the future physicians to be well versed in 'Evidence Based Medicine'. Team based

learning, integrated modular basic sciences learning and students' symposia are some of the learning techniques followed and clinical clerkship training is given in the federal hospitals. Students are given adequate guidance and exposure in research methods and encouraged to do small research projects.

The college has academic tie-up with Hashemite University, Jordan, CyberJaya University, Malaysia, International American University College of Medicine, West Indies, Charles University, Czech Republic, Datta Meghe Institute of Medical Sciences, (Deemed University), India, Dr. MGR Educational and Research Institute, (Deemed University), India, AOC International and Academy for Advanced Studies & Training International, UK, St. Johns Medical College, Bengaluru, India, Azerbaijan Medical University, Azerbaijan Republic and Lithuanian University of health Sciences, Lithuania for exchange programs in the areas of clinical training of students, internship, continuing medical education sessions (CME) and research. This gives opportunities for our students to get global exposure in medical education.

Apart from educational facilities the institution also provides excellent opportunities for the students to bring out their talents in extracurricular activities. Fine arts, sports, and social service are encouraged and practiced.

In the time of COVID-19, as the world is realizing itself for a new normal, medical education, especially at the clinical levels of bedside teaching and training is among the most challengeable task for any medical school, all the while maintaining the mandatory personal safety and hygiene protocols of all stakeholders.

As medical students are clinicians-in-the-making, with responsibilities towards patientcare, health and disease management and hence are required to be allowed for their clinical practices and activities in-situ.

In addition to the benefits to patients and the health care system, allowing medical students to participate reinforces important values, such as altruism, service in times of crisis, and solidarity with the health care profession.

During this unprecedented times, our entire faculty including adjunct clinical faculty, students, interns and alumni have raised up their learning/serving commitments in the service of humanity and making the best use of this opportunity.

Students are being informed to READ, UNDERSTAND and ADHERE to the information as mentioned therein in the following annexures.

ANNEXURE A: Protocols & Procedures_6.0 (Page No.102)

ANNEXURE B: MBBS Clinical Year Student's Declaration (Page No.103)

I am sure that the RAK College of Medical Sciences will be the destination for young minds who wish to be successful Physicians of the future.

Dr. Laxminarayana Kurady Bairy

Dean, RAK College of Medical Sciences

Vision

To be a leading medical college in UAE and the GCC, dedicated to the pursuit of excellence medical education and research by:

- Fostering, disseminating and applying knowledge and intellectual standards.
- Preparing the students to join the medical profession as valued members and become globally competitive practitioners
- Advancing biomedical and clinical research.

Mission

RAKCOMS is committed and dedicated to achieving excellence in medical and health professional education including research and patient care, through its offering of MBBS program, to prepare graduates who are able to develop critical skills in their practice and application of knowledge, equipping them with practical skills and professionalism enabling them to adhere to the highest ethical standards.

Our Values

- Excellence in medical education
- Partnership and Collaboration in research
- Teamwork and Participatory in patient care with community
- Ethics, Honesty and Respect with healthcare partners
- Openness and Transparency
- Accountability and Measurable Milestones
- Diversity in students, faculty and staff.
- Continuous Improvement

13.1 Bachelor of Medicine and Bachelor of Surgery (MBBS) program

Bachelor of Medicine and Bachelor of Surgery (MBBS) program comprises of 2 years of pre-clerkship (integrated modular applied basic sciences) courses and 3 years of clinical clerkship courses.

The Goal

The curriculum has been developed to provide learning opportunities enabling medical students to acquire fundamental knowledge develop basic skills and appreciate principles relevant to health care in the context of the community. The five-year curriculum has been designed to achieve the following goals:

- 1) To provide a comprehensive medical education leading to MBBS degree
- 2) To prepare for evidence based medical practice in the changing health care environment.
- 3) To follow outcome based approach to medical courses and prepare the student to achieve the competencies in Medical knowledge, Clinical skills, Evidence-based learning, Patient care, Effective communication skills & Professionalism.
- 4) To develop a compassionate, analytical and ethical approach in the delivery of health care to the community.
- 5) To prepare physicians to function effectively in the social health care system.
- 6) Promote growth of research and activity targeting areas of national concern.
- 7) Develop skills that facilitate development of effective and empathetic relationships with patients and their families and effective collaborations with other health care professionals.

Program Outcomes

A. Knowledge

Upon completion of the program, the students will be able to:

- 1) Recognize and explain the scientific, including molecular basis of normal health and disease conditions affecting the human body.
- 2) Integrate the basic sciences knowledge to the clinical context in the diagnosis and management of diseases of the human systems.
- 3) Analyze the human psychosocial behavior in relation to health disorders in clinical decision making.
- 4) Demonstrate basic knowledge of the global healthcare delivery in the community according to the health needs.
- 5) Assess the strategies to support lifelong learning and apply the same to make professional decisions.

B. Skills

Upon completion of the program, the students will be able to:

- 1) Elicit accurate and focused medical histories of patients and perform relevant, comprehensive physical examination.
- 2) Evaluate the use of laboratory tests and imaging studies and interpret the results to arrive at clinical decision making.
- 3) Perform the common medical and surgical techniques in clinical settings including the 'basic life support'.
- 4) Formulate and implement plans for the prevention and treatment of diseases and refer patients to experts, if needed.

Aspect of Competences

Autonomy and Responsibility

The students will be able to:

- 1) Display the attributes of sincerity, honesty and integrity while dealing with patients, community and medical profession.
- 2) Analyze the scientific basis of the modalities available and apply them in clinical decision making process in patient care.
- 3) Educate and motivate the patient to promote healthy habits for wellness and prevention of disorders.
- 4) Recognize and value collaboration among health care disciplines, between the physician and patient and their family, and among community and governmental organizations, and industry for achievement of optimal care for patients.

Role in Context

The students will be able to:

- 1) Communicate effectively and compassionately with the patients, colleagues and paramedical staff involved in health care management.
- 2) Demonstrate professionalism and high ethical standards in all aspects of medical practice.
- 3) Organize a healthcare team and take responsibility for the team performance in healthcare settings.

Self-Development

The students will be able to:

- 1) Exhibit a capacity for self-evaluation and motivation for lifelong learning in medical practice
- 2) Remain updated with advancements of medical sciences and apply new knowledge and skills in the patient care.
- 3) Take active part in all national and international health care programs to keep the community in good health.

Attitude and Behavior

The Students will be able to:

- 1) Display the personal attributes of compassion, honesty, professionalism and integrity in relationships with patients, families, communities and the medical profession.
- 2) Demonstrate the ability to communicate compassionately and effectively, both verbally and in writing, with patients, their families, colleagues and others with whom physicians must exchange information in carrying out their responsibilities.
- 3) Exhibit appropriate value for the sensitive nature of the doctor/patient relationship and the importance of compassionate communication and active listening, with attention to the patient's familial, cultural, and spiritual circumstances.
- 4) Demonstrate professionalism and high ethical standards in all aspects of medical practice, specifically competence, honesty, integrity, compassion, respect for others, professional responsibility and social responsibility.

- 5) Exhibit a capacity for self-evaluation, moral reflection and ethical reasoning to form the basis for a self-directed, lifelong engagement in the responsible, committed, compassionate practice of medicine.
- 6) Engage in quality research under the guidance and supervision of faculty.

13.2 The Curriculum

13.2.1 Pre-clerkship courses: (I & II Year - Semester I to IV)

Integrated modular curriculum of applied basic sciences has been proven to be more effective than other conventional methods such as Discipline based curriculum and hence it is introduced in the academic year 2013-14.

13.2.2 Goal

Students will learn and acquire an integrated knowledge of organ evolution, structure and functions and the regulatory mechanism of the human body in the management of health and disease.

13.2.3 Module

Integrated Teaching is made up of 'Modules'. A Module is the smallest unit of curriculum. Each module is based upon organ-system/s of the body and/or processes. In each module, the basic and clinical sciences will be taught in an integrated manner.

13.2.4 Design

The curriculum design has been structured in the following manner:

- The first year courses consist of four modules
 - a) Foundation Module
 - b) Hematology, Immunology & Genetics Module
 - c) Musculoskeletal & Integumentary Module
 - d) Cardiovascular System Module.
- The second year courses consist of four modules
 - a) Respiratory System Module
 - b) Gastrointestinal System & Nutrition Module
 - c) Endocrinology module and Genitourinary System Module
 - d) Neurology & Behavioral Science Module

Each of the 'Module' has been explicitly designed to contain the following:

- Title/theme of the module
- Learning Outcomes [General]
- Teaching Schedule [Weekly, along with Specific Learning Outcomes]
- Credit Hours
- List of Recommended resource materials

13.2.5 Distribution of Modules in Year I (Semester I & II) 29 Weeks

Semester I	Semester II
Foundation Module	Musculo skeletal & Integumentary module
Hematology, Immunology & Genetics	Cardiovascular system module
*Clinical skills	*Clinical skills

*Clinical skills is a separate course and not modular

13.2.6 Distribution of Modules in Year II (Semester III & IV) 30 Weeks

Semester III	Semester IV
Respiratory system module,	Genitourinary System & Endocrinology Module
Gastrointestinal System & Nutrition module,	
	Neurology & Behavioral Science module
Clinical skills	Clinical skills
	*Clinical Decision Making

*Clinical Decision Making is a separate course (non-modular) which is General Education course

- The General Education courses will be covered in the pre-clerkship program in the first two years.

The third, fourth and fifth years are an immersion in clinical medicine and primary and specialty care in outpatient and inpatient settings. Emphasis is placed on core medical specialties with opportunities for electives. During the fourth and fifth years, a student will have the choice of doing research along with other faculty.

13.2.7 Distribution of Courses in Year III (30 Weeks)

Course Title
Internal Medicine including Dermatology& Radiology
General Surgery and Allied Courses
Oto-rhino-laryngology (ENT)
Ophthalmology
Orthopedics
Community Medicine
*Clinical Decision Making

13.2.8 Distribution of Courses in Year IV (30 weeks)

Course Title
Internal Medicine and Allied Courses
General Surgery
Obstetrics and Gynecology
Pediatrics & Neonatology
Community Medicine
Psychiatry
*Clinical Decision Making

13.2.9 Distribution of Courses in Year V (30 weeks)

Course Title
Internal Medicine including Emergency Medicine
General Surgery including Anesthesia
Obstetrics and Gynecology
Pediatrics and Neonatology
*Clinical Decision Making

*Clinical Decision Making Courses (MCD 321, MCD 431, MCD 542) are designated as Medical Education Courses and their grade points will be included for the calculation of GPA/CGPA

13.3 Study Plan for MBBS 5 years

Pre-clerkship courses: I & II years (4 Semesters of 16 weeks each)

I MBBS - Semester I				
Course code	Title	Credits		Comprehensive Examination
		Theory	Practical	
MFM 118	Foundation Module	7	1	None
MHI 119	Hematology, Immunology & Genetics	7	2	None
MCS 112	Clinical Skills	-	1	None, Continuous assessment only
ENG 101	English	3	-	ENG 101
ARB 101	Health Sciences Communication in Arabic	3	-	ARB 101
	Total	20	4 =(24)	

I MBBS - Semester II				
Course code	Title	Credits		Comprehensive Examination
		Theory	Practical	
MMS 118	Musculo skeletal & Integumentary System Module	6	2	MMS 118
MCV 118	Cardio vascular System Module	7	1	MCV 118
MCS 112	Clinical Skills	-	1	None Continuous assessment only
ENG 201	Health Sciences Communication in English	3	-	ENG 201
ICM 101	Islamic Culture in Medicine	3	-	ICM 101
				MFM 118, MHI 117
	Total	19	4 = 23	

II MBBS - Semester III				
Course code	Title	Credits		Comprehensive Examination
		Theory	Practical	
MRS 215	Respiratory System Module	4	1	None
MGN 218	Gastro intestinal system & Nutrition Module	7	1	None
MCS 222	Clinical Skills	-	1	None Continuous assessment only
CSK 101	Computer Skills	3	-	CSK 101
PSY 201	Psychology & Behavioral Sciences	3	-	PSY 201
	Total	17	3= 20	

II MBBS - Semester IV				
Course code	Title	Credits		Comprehensive Examination
		Theory	Practical	
MGE 2113	Genitourinary System and Endocrine Module	11	2	MGE 2113
MNB 219	Neurology & Behavioral Sciences Module	8	1	MNB 219
MCS 222	Clinical Skills	-	1	None Continuous assessment only
MCD 211	Clinical Decision Making	1	-	MCD 211
				MGN 218, MRS 215
	Total	20	4 = 24	

Clinical Clerkship courses: III, IV & V year

(6 Semesters of 18 weeks clinical rotations and 16 weeks of theory each)

Year III (Semesters V & VI)

Course #	Course Title	Credits		Comprehensive Examination
		Theory	Clinical	
MIM 319	Internal Medicine including Dermatology & Radiology	5	4	MIM 319
MGS 315	General Surgery	3	2	MGS 315
MOR 304	Orthopedics	2	2	MOR 304
MEN 303	Oto-Rhino-Laryngology (ENT)	1	2	MEN 303
MOP 303	Ophthalmology	1	2	MOP 303
MCD 321	Clinical Decision Making	1	-	MCD 321
MCM 312	Community Medicine	2	-	MCM 312
	Total	15	12	

Year IV (Semesters VII & VIII)

Course #	Course Title	Credits		Comprehensive Examination
		Theory	Clinical	
MIM 425	Internal Medicine	3	2	MIM 425
MGS 425	General Surgery	3	2	MGS 425
MOG 415	Obstetrics and Gynecology	3	2	MOG 415
MPE 415	Pediatrics & Neonatology	3	2	MPE 415
MCM 425	Community Medicine	3	2	MCM 425
MPS 403	Psychiatry	1	2	MPS 403
MCD 431	Clinical Decision Making	1	-	MCD 431
	Electives (During Vacation)	-	2	NONE
	Total	17	14	

Year V (Semesters IX & X)

Course #	Course Title	Credits		Comprehensive Examination
		Theory	Clinical	
MIM 537	Internal Medicine including Emergency Medicine	4	3	MIM 537
MGS 537	General Surgery including Anesthesia	4	3	MGS 537
MOG 525	Obstetrics & Gynecology	3	2	MOG 525
MPE 525	Pediatrics and Neonatology	3	2	MPE 525
MCD 542	Clinical Decision Making	2	-	MCD 542
	Total	16	10	

Total credits for MBBS Program: 175

Equivalent No. of contact hours for 1 credit:

15 -theory (@ 1 credit), 30 - TBL (@ 2 credits), 60 - clinical clerkship rotations (@ 4 credits)

13.3.1 Clinical Curriculum

The clinical component of the five year MBBS program is imparting to each medical student graduate with the fundamental patient centered knowledge and skills important in health and disease as the basis of safe and effective patient care. Gap between the basic sciences and clinical medicine is bridged by providing the students with the knowledge and skills needed to evaluate patients while at the same time, emphasizing the importance and integration of basic sciences, behavioral medicine, ethics, and professionalism. The clinical phase of three years integrated curriculum prepares the medical student for effective delivery of health care to individual and society in practice of medicine.

The focus of this clinical phase through systems is on abnormal structure and function. Students rotate through a series of clinical clerkships which provide opportunities for the study of patients presenting with abnormal structure and function of the body systems. Clinical teaching complements actual clinical experience in patients. The epidemiology, etiology, and natural history of disease processes are investigated in greater depth than in preclinical phase. The principles of therapeutics are included in a consideration of the medical management of specific disease processes. The ethical implications of medical intervention are considered and the psychological and social consequences both of disease and medical intervention are reviewed.

The six general clinical competencies for medical school students include:

- Medical knowledge & clinical skills
- Evidence-based learning
- Patient care
- Effective communication skills
- Professionalism
- Self-directed lifelong learning

As a student progresses through the clinical curriculum of the medical school, his/her competencies and attainment of these educational outcomes are periodically reviewed as they provide valuable guide to the organization of the knowledge, skills and attitudes learnt during this phase of their professional growth.

To ensure equivalent learning experiences for all medical students, a standardized curriculum is employed. This includes:

1. A common list of learning outcomes, to be met with course wise and system wise (where ever applicable), didactic lectures and clinical clerkship program,
2. Recommended / reference text books.
3. A series of team based learning and seminars leading to self-directed learning

After successful completion of the five year MBBS program, the students are required to undergo a one year rotational internship in the assigned Federal Hospital if they want to practice medicine in UAE. Internship is a phase of training wherein a graduate is expected to conduct actual practice of medical and health care and acquire clinical skills under supervision, so as to enable him/her to function independently.

13.3.2 Clinical Clerkship

The clinical phase of the curriculum includes fourteen required clerkships (Community medicine, Ophthalmology, Oto-rhino-laryngology, Internal Medicine, General Surgery, Pediatrics, Psychiatry, Obstetrics & Gynaecology, Orthopedics, Dermatology, Radio-diagnosis, Anesthesia & critical care, Emergency room and Electives .

During this period the students are exposed to all the major specialties of medicine and many sub specialties in hospital setting. As they rotate through various departments, they work to develop relationships with faculty and other physicians, seek out mentors who can help out guide their future career choices. They will be evaluated by clerkship assessments including evaluations from their attending physicians and residents and by other appropriate methods. All these evaluation will become part of their continuous assessment.

13.3.3 Clinical Rotations, Weeks per year

Year III

Course #	Course title	Credits	Duration [weeks]
MEN 303	Oto -rhino -laryngology (ENT)	2	5
MOP 303	Ophthalmology	2	5
MIM 319	Internal Medicine	2	5
	Dermatology & Radiology	2	2.5 +2.5
MGS 315	General Surgery	2	5
MOR 304	Orthopedics	2	5
	TOTAL	12	30

Year IV

Course #	Course title	Credits	Duration [weeks]
MIM 425	Internal Medicine	2	5
MGS 425	General Surgery	2	2 + 2 + 1
MOG 415	Obstetrics and Gynecology	2	5
MPE 415	Pediatrics and Neonatology	2	5
MCM 425	Community Medicine	2	5
MPS 403	Psychiatry	2	5
	Electives [During Summer holidays]	2	4
	TOTAL	14	34

Year V

Course	Course title	Credits	Duration [weeks]
MIM 537	Internal Medicine including Emergency Medicine	3	5 + 5
MGS 537	General Surgery including Anesthesia	3	5 + 5
MOG 525	Obstetrics & Gynecology	2	5
MPE 525	Pediatrics and Neonatology	2	5
	TOTAL	10	30

13.3.4 Hospital Facilities for Clinical Teaching in UAE

RAKMHSU uses the facilities of Saqr Hospital, Ibrahim Bin Hamad Obaidullah Hospital and Abdullah Bin Omran Hospital, Ras Al Khaimah for teaching and clinical training of the students, in addition to the various primary health centers available in Ras Al Khaimah under the ambit of RAK Medical Zone. It also uses Ministry of Health and Prevention (MOHAP) Hospitals and primary health centers at Fujairah with 295 beds for clinical clerkship.

Saqr Hospital has bed capacity of 278 and has 99 consultants, of whom 48 have terminal degrees and the remaining are general practitioners. All the surgical specialties like General Surgery, Urology, Neurosurgery, Orthopedic Surgery, Oto-rhino-laryngology, Ophthalmology and Pediatrics are located in this hospital. All the medical specialties viz Internal Medicine, Neurology, Respiratory Medicine, Cardiology, Dermatology, and Psychiatry are located in Ibrahim Bin Hamad Obaidullah Hospital (IBOH). Fujairah hospital also have all the specialties mentioned.

Abdullah Bin Omran Hospital, Ras Al Khaimah has Obstetrics & Gynecology, Neonatology and Anesthesiology specialties and is available for MBBS students' teaching and clinical training beginning September 2018.

13.3.5 Electives

The electives provide the students with an opportunity to explore subjects of particular interest to them in greater depth than the core course allows or to improve upon the areas of weakness by repeating a regular clerkship. This allows them additional time for personal growth as they fine tune their general medical skills and begin to explore the specialized areas that interest them. Students are encouraged to select an elective course of their own choice for a period of not less than four weeks during semester eight. The electives taken can be Home electives or Away from home electives. The Home electives are electives within the School of medicine, whereas Away from home electives can be an elective at another medical school or a clinical facility.

The Away from home electives are available from many schools and a variety of clinical facilities. The Office of the Dean and faculty members in the department will guide the students regarding electives.

RAKMHSU has got academic tie-up with Hashemite University of Jordan, Cyber Jaya University of Malaysia, Charles University of Czech Republic, International American University College of Medicine, West Indies, Datta Meghe Institute of Medical Sciences (Deemed University) India, Dr. MGR Educational & Research Institute, India, Azerbaijan University, Azerbaijan Republic and AOC International and Academy for Advanced studies & Training International UK in the areas of clinical elective clerkship training, internship, continuing medical education and research. Similar tie-ups are being worked up with New York Medical College.

The cost of travelling and accommodation and personal expenses during any overseas training shall be borne by the students.

As with all other clerkships, failure to attend an approved elective will result in an unsatisfactory grade.

13.3.6 Internship (MBBS)

After graduation one year internship is mandatory if a student wants to practice Medicine in most of the countries in the world except the USA and Canada

After passing the final MBBS examination and graduating, students can undergo rotational Internship in the approved hospitals of the country of their choice for a period of twelve months. If they desire to undergo internship in UAE, the University will facilitate the approval from the Ministry of Health and Prevention, UAE to complete their training in the Federal hospitals of UAE so as to get internship completion certificate from MOH and the office of the Dean.

The intern shall be entrusted with clinical responsibilities under the direct supervision of a senior faculty/ consultant. They shall not be working independently.

Internship is a phase of training wherein a graduate is expected to conduct actual practice of medical and health care and acquire skills under supervision, so as to enable him/ her to function independently.

The Internship in UAE is arranged and supervised by the Ministry of Health and Prevention and the University facilitates its students in the submission of Internship Applications.

13.4 Description of Courses

For description of General Education Courses, please refer to Section-12.3

Year I

1. MFM 118: Foundation Module

This module provides first-year medical students with basic knowledge of the principles underlying the practice of medicine. These principles are to support the study of the human body in health and disease and prepare the students for system based learning in subsequent modules. These basic principles are Anatomical, Biochemical, Pharmacological, and basic concepts of Pathophysiology & Microbiology. Clinical skills, are also introduced in this module.

2. MHI 119: Hematology, Immunology & Genetics

The Genetics, cancer and blood module covers different components of medical genetics, principles of cancer biology, and Blood (hematology and immunology in health and disease).

The module will start with broad learning outcomes in genetics for medical students that will pave the way and make strong foundations for learning outcomes in genetics in clinical practice. This will be followed by principle of cancer in terms of cancer biology and the complicated process of carcinogenesis with shedding lights on the molecular basis of cancer.

It also emphasizes on different components of immune system, the fundamentals of immunologic tissue injury and the mechanisms underlying the disorders of the immune system and their correlation with the pathogenesis and clinical features & treatment.

The hematology component in the module mainly deals with origin and differentiation of haemopoietic cells, their morphology and the biochemical as well as pathological mechanisms associated with different types of disorders related to them and their management. In brief it also covers important aspects of blood groups and cross matching and its clinical significance.

3. MMS 118: Musculoskeletal & Integumentary Module

This module consists of the study of musculoskeletal & Integumentary systems during health and disease conditions. The teaching will be for 8 weeks duration. The methodology adopted for this module apart from didactic lectures will be case based learning, and team based learning. The laboratory exercises include demonstration of prosected/dissected cadaveric specimens from upper limb regions, lower limb regions and neck triangles. The contents of the module include; normal anatomy, physiology and biochemistry & pathological conditions of muscles, bones, joints, and skin and breast tissue. The microbiological conditions associated with the systems are also taught. The module will be covering the study of drugs involved in various abnormal conditions of the musculoskeletal & Integumentary systems. The necessary Imaging studies and forensic medicine topics are also included.

4. MCV 118: Cardiovascular System Module

This module builds upon an understanding of the structure and function of the cardiovascular system, and enables students to integrate basic science and clinical concepts related to this system, with emphasis on the pathophysiology, pathology, diagnosis and treatment of the most common cardiovascular diseases. Appropriate examples of medical imaging and diagnostic techniques are also introduced.

Year II

5. MRS 215: Respiratory System Module

The respiratory module provides the second year medical students about the various anatomical parts of the respiratory, their functions, common respiratory diseases / infections, their diagnosis, etio-pathogenesis, clinical features, complications of common respiratory disorders and the therapeutic management including their mechanism of action, adverse effects and drug interactions. The module is divided into 5 weeks starting with the basics of the respiratory tract in the first week and progressing to the pathological and clinical aspects with relevance to respiratory system.

6. MGN 218: Gastro Intestinal System & Nutrition Module:

This module builds upon an understanding of the structure and function of the gastrointestinal tract, and enables students to integrate basic science and clinical concepts related to this system, with emphasis on the pathophysiology, pathology, diagnosis and treatment of the most common gastrointestinal diseases. Appropriate examples of medical imaging and diagnostic techniques are also introduced. In addition, this module covers the basic aspects of nutrition, pathophysiology of nutritional inadequacies or excesses, their clinical manifestations, prevention and treatment.

7. MGE 2113: Genitourinary System and Endocrine Module

The genitourinary and endocrine module provides a comprehensive knowledge of the structure, functions and biochemical aspects of the excretory, endocrine, male and female reproductive systems to the second year medical students. It will also discuss the most common categories of disease processes (congenital, inflammatory, neoplastic, vascular, metabolic and immune-mediated) involving the genitourinary system and their management. The endocrine part of this module will discuss about the major hormones involved in the normal and pathological states, including diabetes, thyroid, parathyroid and adrenal disorders and their management.

8. MNB 219: Neurology & Behavioral Sciences Module:

This module builds upon an understanding of the structure and function of the Central nervous system, and enables students to integrate basic science and clinical concepts related to this system. Each of the basic science topics is incorporated into an integrated body of knowledge covering neuroanatomy, neurophysiology, neurological correlation, neuropharmacology, neuropathology, microbiology, human behavior, biochemistry and the medicolegal aspects with emphasis on the pathophysiology, diagnosis and treatment of the most common CNS disorders. Appropriate examples of medical imaging and diagnostic techniques are also introduced. In addition, this module covers the pathophysiology of the special senses of vision, audition, olfaction and gustation.

9. MCS 112 / MCS 222: Clinical Skills

Learning of clinical skills during preclinical year empowers the students to acquire the skills that facilitates them to communicate and interact well with patients and perform physical examination on them. They get the early exposure with these core and important professional skills in a simulated environment that make them confident and comfortable while dealing with real patients during clinical years.

10. MCD 211: Clinical Decision Making

Clinical Decision Making is a course which starts as a vertical weave, in the 4th semester of the year 2 of the MBBS program and continues up to the semester 10 of year 5 MBBS course. During the year 2 of the MBBS program, it is offered as an introductory 1 credit course. It is a part of the General Education studies. The course is basically didactic and is delivered through lectures. The faculty involved are from Departments of Medicine and Surgery of RAKCOMS.

The course educational content is delivered through 16 lecture sessions spread over an equal number of weeks. (Annexure 1). Focusing on Introduction to Clinical decision making (CDM) and Evidence based Medicine (EBM). The fundamental concepts of measurement and description of scientific data. Architecture and analysis various types of research studies. How to critically appraise a scientific evidence and apply in clinical practice. Understanding the basics of medical ethics and its principles

YEAR III

Prerequisites for the clinical years: All Year 1 and Year 2 courses

1. MCM 312 Community Medicine

The course will prepare the students to function as a community and first level primary care physicians with an insight into the health of the people, the health problems of the people with an emphasis is on health promotion and disease prevention. Due emphasis will be made on fundamentals of epidemiology, epidemiological methods, to understand disease causation and the strategies for prevention and control.

2. MEN 303 Oto-rhino-laryngology (ENT)

Otorhinolaryngology is a surgical subspecialty within medicine that deals with conditions of the ear, nose, and throat (ENT) and related structures of the head and neck. Patients seek treatment from an otorhinolaryngologist for diseases of the ear, nose, throat, base of the skull, and for the surgical management of cancers and benign tumors of the head and neck.

The goal in the core otorhinolaryngology curriculum is to provide a solid foundation in otorhinolaryngology to each medical student. The knowledge gained during this course will allow the students to acquire the adequate knowledge and skills for optimally dealing with common disorders and emergencies and principles of rehabilitation of the different diseases of ear, nose and throat in general practice.

3. MOP 303 Ophthalmology

Ophthalmology is a branch of medicine dealing with the diagnosis, treatment and prevention of diseases of the eye and visual system. The eye, its surrounding structures and the visual system can be affected by a number of clinical conditions. Ophthalmology involves diagnosis and therapy of such conditions, along with microsurgery. Study of ophthalmology will help students to acquire knowledge, skills and competencies required as primary care physician in patients' care suffering from ophthalmic disorders.

The knowledge gained during this course will enable the students to take an appropriate ophthalmic history, and perform an accurate primary care ophthalmic examination with an ability to diagnose and appropriately manage acute and common ophthalmic conditions, as well as to properly manage other ocular diseases. The students will be able to develop a sense of the importance of visual impairment and disability. They will also be able to assist the implementation of national programs for the prevention of blindness and rehabilitation of the visually impaired.

4. MIM 319 Internal Medicine including Dermatology & Radiology

Introduction to clinical presentations of medical disorders. Basic facts about common disorders in various systems of cardiology, infections, neurology, gastroenterology & endocrine systems. Diagnosis of common clinical disorders and their effective management including drug therapeutics.

Basics of radiological principles, modes of imaging and their clinical applications, interpretation of various common imaging tools such as x-rays, ultrasound, Ct and MRI scans related to common clinical disorders.

Basics in dermatological pathology, pharmacology, common skin disorders such as infections, various dermatitis, auto immune skin diseases, and common skin malignancies such as squamous cell carcinoma and melanoma. Nutritional disorders of skin and evaluation management of all common skin diseases.

5. MGS 315 General Surgery

General surgery, as a specialty, deals with a wide spectrum of diseases affecting the human body which requires an intervention in majority of cases. This undergraduate course per se deals with the knowledge of human body, pathophysiology of diseases, diagnosing surgical diseases and the basic surgical skills required to practice as a primary care physician in the community.

Being a major undergraduate course, it has been divided and spread over 3 Years (MBBS Year 3, 4 & 5) of the total 5 year MBBS program. Year 3 focuses on Basics in Surgery and GI system while Year 4 & 5 introduces Surgical Sub-specialties. Anesthesia & ICU is also included in Year 5 training. The General learning outcomes remain the same in all 3 years, but the specific learning outcomes are separate for each year which when clubbed together achieves the General outcomes of Surgery Course.

The year 3 course introduces students to the basic surgical concepts of wound healing, wound infections, shock & hemorrhage, i.v. fluids and peri-operative care of surgical patients. This forms the foundation of surgical teaching. These concepts are further reinforced when various gastrointestinal disorders, breast diseases and common skin diseases are introduced. The clinical clerkship in the hospitals provides the most vital learning resource in the form of patients for surgical care. During this clerkship, students attend General Surgery department and learn and apply the 4 main domains of clinical training: Communication skills, Physical examination skills, Procedural skills and Interpretation & clinical reasoning skills. The Skills lab is used to train students on manikins before they can assist/perform a skill on real patients (under supervision).

6. MOR 304 Orthopedics

Orthopedics is the branch of surgery concerned with conditions involving the musculoskeletal system. Orthopedic surgeons use both surgical and nonsurgical means to treat musculoskeletal trauma, spine diseases, sports injuries, degenerative diseases, infections, tumors, and congenital disorders.

Study of orthopedics will help students to acquire knowledge, skills and competencies required as primary care physician in patients' care suffering from orthopedic trauma, bone and joints infection, metabolic bone diseases, joint disorders, tumors, skeletal anomalies and regional orthopedic disorders.

7. MCD 321 Clinical Decision Making

The term "clinical decision making" is generally used to describe a systematic way to study and analyze data and clinical algorithms to decide on a best course of action in practice. The goal of this course is to develop an effective practitioner, making clinical decisions using systematic proactive approaches by integrating experience, awareness, knowledge, information gathering, using appropriate assessment tools and evidence-based practice to help guide in dealing with the uncertainties of healthcare decisions as well as to develop an attitude of shared decision making with patients and to foster and promote research in medical decision making. The content of the course is shared by 5 specialties i.e. Internal Medicine, General Surgery, orthopedics, ophthalmology and otorhinolaryngology.

YEAR IV

1. MIM 425 Internal Medicine

Etiology, signs, symptoms, clinical features and management of cardio-vascular diseases, Renal hematological and respiratory disorders.

2. MGS 425 General Surgery

The year 4 course exposes the students to the subspecialties of surgery; Urology and Neurosurgery. Emphasis is on the basic principles involved in the management of common Urological and Neurosurgical disorders. General surgical topics like hernias and hepato-pancreatico-biliary surgery is also part of the course. During year 4 clerkship, students attend Urology, Neurosurgery & General Surgery department and learn and apply the 4 main domains of clinical training: Communication skills, Physical examination skills, Procedural skills and Interpretation & clinical reasoning skills. The Skills lab is used to train students on manikins before they can assist/perform a skill on real patients (under supervision).

3. MOG 415 Obstetrics and Gynaecology

The goal of this course is to expand students' basic science knowledge to provide an introduction to those aspects of obstetrics and gynecology and women's health care that are essential to all physicians. It will enable them to provide primary health care to all female patients in a pregnant and non-pregnant state as well as help them to make appropriate and timely referrals.

It includes reproductive organs, physiology of reproduction, physiology of pregnancy and antenatal care, miscarriage and ectopic pregnancy, physiology of labor, Rh negative mother, post-dated pregnancy, preterm labor, medical disorders complicating pregnancy (Diabetes, hypertension, heart disease, thyroid disease), Puberty, normal and abnormal sexual development, endometriosis, sexually transmitted diseases and contraception. The training in Obstetrics and gynecology will be divided between clinical exposure of five weeks of clinical clerkship and experience (in the outpatient department, operating room, labor room and wards), didactic sessions covering core subjects and skill sessions (to simulate and practice, interpretation and psychomotor skills). It will enable the students to understand the common diseases and health concerns of the female population. Lectures and active learning sessions encompassing these core subjects have been chosen to meet this broad clinical goal.

4.MPE 415 Pediatrics and Neonatology

This course in pediatrics will enable the students to acquire the basic knowledge of normal and abnormal growth and development (physical, physiologic, psychosocial), and its clinical application from birth through adolescence, and to provide basic health care for individuals in the Pediatric age group (neonates, infants, children and adolescents). The students will be able to comprehend the clinico-pathological basis of nutritional disorders as well as vitamin and mineral deficiency states, explain the pathophysiologic basis of fluid therapy, electrolyte balance and acid-base disorders as well as understand the principles of use of vaccines, demonstrate knowledge of common infectious diseases and application of IMCI chart. They shall be able to explain the pathophysiological basis of genetic, immunologic and psychosocial issues in children and demonstrate knowledge of common genetic, immunologic and psychosocial disorders.

The clinical clerkship in pediatrics is for five weeks in fourth year of MBBS course. This will provide students with an appropriate background covering the common and important Pediatric diseases including emergencies and enable the development and application of appropriate professional attitudes, communication and problem solving skills.

5. MPS 403 Psychiatry & Human Behavior

Psychiatry is the branch of medicine focused on the diagnosis, treatment and prevention of mental, emotional and behavioral disorders. Mental health affects the individual's ability to function, to be productive, to establish and maintain positive relationships, and to experience a state of well-being. As Socrates said "It is impossible for the part to be well, if the whole is not well".

Study of Psychiatry will help medical students to acquire knowledge, skills and competencies required as primary care physician in identifying common mental health problems independently or as part of other physical illnesses for initial management and appropriate referral. Besides this, all medical practitioners need skills in communication and forming empathy and the ability to counsel that are learnt in psychiatry.

The principle objective of Psychiatry teaching for medical undergraduates is for students to be able to take a comprehensive psychiatric history and mental state examination, acquire a systematic approach for making diagnosis using information from the clinical assessment and justify their preferred and differential diagnoses. It will also help to indicate, in broad terms, how to manage and treat a person with a psychiatric disorder paying attention to the biological, psychological and social aspects of treatment and tailoring their recommendations in the light of the information they have obtained for delivering best practices.

6. MCD 431 Clinical Decision Making

The term "clinical decision making" is generally used to describe a systematic way to study and analyze data and clinical algorithms to decide on a best course of action in practice. The goal of this course is to develop an effective practitioner, making clinical decisions using systematic proactive approaches by integrating experience, awareness, knowledge, information gathering, using appropriate assessment tools and evidence-based practice to help guide in dealing with the uncertainties of healthcare decisions as well to develop an attitude of shared decision making with patients and to foster and promote research in medical decision making. The content of the course is shared by 6 specialties i.e. Internal Medicine, General Surgery, Pediatrics, Obstetrics and Gynecology, Psychiatry and Community Medicine.

7. MCM 423 Community Medicine

The main goal of the course is to provide students with an insight into the organization, delivery of health care services in the community especially at Primary health care. It will provide students with an insight into the different national health problems such as communicable and non-communicable diseases with a special emphasis on lifestyle related diseases, nutritional problems, their epidemiological features, prevention and control. Due emphasis is given to maternal and child health, occupational health, environment and health.

The goal of the community medicine clinical clerkship is to expose students to an intense clinical experience at the first level of care. This will enable students to care for patients located in rural and urban areas and those who are

medically underserved both in outpatient and inpatient settings. Multiple opportunities are provided to the students for improving their competency and especially the skills of caring and comforting patients from diverse socioeconomic and cultural backgrounds in community, educate them on matters related to health.

YEAR V

1. MIM 537 Internal Medicine including Emergency Medicine

Poisoning, occupational health hazards, geriatric problems and their management.

Etiology, signs, symptoms, clinical features and management of various autoimmune, nutritional, neurological, endocrine and metabolic disorders and emergencies.

2. MGS 537 General Surgery including Anesthesia

The year 5 course aims to prepare the students for their internship. Basics learnt in the previous years are emphasized, and other subspecialties of surgery like Vascular, Pediatric and Cardiothoracic surgery are introduced. Management of trauma and Emergency general surgical patients is also covered here. Anesthesia and critical care form part of the year 5 course, and basics of various anesthesia techniques, monitoring during and after anesthesia are taught. Management of critically ill patients including ventilator and inotropic supports are touched upon. Students attend 2 clerkships in year 5 (one in General Surgery and another in Anesthesia), wherein the focus is more on peri-operative care of surgical patients.

3. MOG 525 Obstetrics & Gynaecology

The goal of this course is to expand students' basic knowledge of obstetrics and gynecology and women's health care. It will enable them to provide health care to all female patients in a pregnant and non-pregnant state, recognize complications, provide essential first aid in emergency as well as help them to make appropriate and timely referrals.

It includes malpresentations and positions, twins, fetal growth abnormalities, infertility, common gynaecological disorders, different types of benign and malignant lesions of uterus, cervix, ovary, vulva and vagina, diseases of the urinary system, Hysterectomy and other surgical procedures in the genital tract, menopause, ultrasound in obstetrics and common drugs in obstetrics and gynecology.

4. MPE 525 Pediatrics & Neonatology

This course in pediatrics will enable the students to acquire the basic knowledge of normal and abnormal growth and development (physical, physiologic, psychosocial), and its clinical application from birth through adolescence, and to provide basic health care for individuals in the Pediatric age group (neonates, infants, children and adolescents). At the end of the Vth year, the students will be able to demonstrate comprehensive knowledge in management of common pediatric respiratory, cardiovascular, gastrointestinal, genitourinary, hematologic, rheumatologic, endocrinal and central nervous system disorders.

This will provide students with an appropriate background covering the common and important Pediatric emergencies and diseases and enable the development and application of appropriate professional attitudes, communication and problem solving skills.

5. MCD 542 Clinical Decision Making

The term "clinical decision making" is generally used to describe a systematic way to study and analyze data and clinical algorithms to decide on a best course of action in practice. The goal of this course is to develop an effective practitioner, making clinical decisions using systematic proactive approaches by integrating experience, awareness, knowledge, information gathering, using appropriate assessment tools and evidence-based practice to help guide in dealing with the uncertainties of healthcare decisions as well to develop an attitude of shared decision making with patients and to foster and promote research in medical decision making. The content of the course is shared by 4 specialties i.e. Internal Medicine, General Surgery, Pediatrics and Obstetrics and Gynecology.



ANNEXURE A

Operation of Educational Establishments during the Pandemic: Protocols & Procedures Sixth Release 6.0* / JUL 11, 2021

SECTION SIX / Page No.55-57 Guidelines for Medical Students & Students of Health Science Faculties During the Covid-19 Pandemic

TRAINING

All students shall complete the online training course on Covid-19 infection provided by the educational institution.

PERSONAL PROTECTIVE EQUIPMENT (PPE) AND INFECTION CONTROL PROTOCOL

All students shall complete training in handling PPE

All students shall follow public safety protocols, in addition to special procedures to reduce the transmission of infection in health care facilities.

CLINICAL TRAINING

Students can be allowed for clinical training, rotation, and follow-up medical education in hospitals that treat cases of Covid 19, with the need to comply with the necessary prevention and safety measures, and it is also ensured that strict precautions are followed when students deal with patients who have been confirmed to be infected with Covid 19.

UNDERTAKING

Before starting clinical training, students shall sign a waiver of any right to take legal action in the event of being diagnosed as having Covid-19 due to such training.

SAFETY PRECAUTIONS

Students shall comply with the latest safety measures and any additional measures such as (wearing face masks, checking the temperature, maintaining physical distancing, and following hand hygiene practices recommended in areas of patient and non-patient care).

Students who shall be associated in clinical training must undergo the necessary periodic checks according to the health educational facility's guidelines.

EXEMPTIONS

If students have valid reasons that clinical training would harm their health, they will need to communicate directly with the educational institution to give them a leave, so that conditions are safe for them to return to such clinical training.

Basic science students, enrolled from the first to the third (1-3) academic year in faculties of medicine, shall be exempted from clinical training this year, and training shall be provided through clinical skills and simulation laboratories.

MONITORING

The clinical tutor shall monitor students' compliance with the procedures.

*Sixth Release 6.0: Information is being continuously updated; latest UPDATE may be obtained from the following web link
https://www.moe.gov.ae/Ar/Documents/Operation_of_Educational_Establishments_during_the_Pandemic_Protocols.pdf

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ANNEXURE B

DECLARATION GIVEN BY MBBS CLINICAL YEAR STUDENT

With reference to the Clinical Teaching and Training for the academic year September 2021 to June 2022, being scheduled both in the RAK Medical and Health Sciences University [RAKMHSU] campus and as well as in the Ministry of Health and Prevention [MOHAP] hospitals, and with reference to Operation of Educational Establishments during the Pandemic Protocol and Procedures 2020, **Sixth Release 6.0** dated **July 11, 2021**, I do have the following important information to DECLARE UPON MY FREEWILL:

- I am aware that as a bonafide student of RAKMHSU, I must always carry/have valid Emirates ID, Health Insurance Card, and negative Covid-19 test results/vaccination information in my possession while attending clinical teaching sessions in person, either in the hospitals, PHCs or the University.
- Should I develop any symptoms suggestive of COVID-19 infection, such as fever ≥ 37.5 degrees, cough, URTI symptoms, loss of smell, loss of taste, diarrhoea etc, I should immediately report this to the Core Clinical Faculty of the department concerned and I am aware that I will be suspended from physically attending the teaching/training sessions. Also, I am aware that a fresh negative COVID-19 RT-PCR test will be required to return to physically attending the teaching/training.
- I should be aware of my health condition/ailment if any, through clinical evaluation to ascertain if I am suffering from any chronic diseases such as cardiac disease, diabetes mellitus, chronic chest disease, immunocompromised status, cancer or those on any immunosuppressive therapy. In the unfortunate event of any such health issue/s as mentioned above, I am responsible to declare the same to the Dean-RAKCOMS in person or by email [dean.rakcoms@rakmhsu.ac.ae].
- I am aware that this undertaking declaration is required as a part of best practice to rule out the remote chances, if any, that may cause infection or create any health issue/s to any/all the stakeholders engaged in the delivery of teaching/training sessions.
- I am signing this declaration form upon my free will, and I do understand that this declaration is legally binding upon me to meticulously follow and practice all the official guidelines as laid down by RAKMHSU and MOHAP.
- Further, during and/or after attending the teaching/training sessions, should I develop any COVID19 symptom/s and/or is diagnosed with Covid-19, I do hereby DECLARE TO WAIVE OFF ANY RIGHT TO TAKE LEGAL ACTION against RAKMHSU and/or its AFFILIATED HOSPITALS/CLINICS.
- I am aware of the COVID-19 PROTOCOL FOR MBBS STUDENTS that has been emailed to me through the University email

			___/AUG/2021
Name of Student	HAND Signature USE BLUE PEN	Year of Study	Date of Signature

Tel. 2 7 971+3000 04 / Fax 9997 226 7 971+ / PO Box 11172 / Ras Al Khaimah / United Arab Emirates

14. RAK College of Dental Sciences

Dean's Message

RAK College of Dental Sciences (RAKCODS) offers a five year dental training program leading to the degree of Bachelor of Dental Surgery. Initial accreditation for this program was granted in 2007 by the Commission for Academic Accreditation (CAA), Ministry of Higher Education, UAE. Recently, in 2020 an external review team of the CAA, Ministry of Education has reviewed and approved the program for reaccreditation.



The college was established to provide quality education that ensures an enriching future for its dental graduates who fulfil the oral health needs of the community. The curriculum of the BDS program has been designed to meet the oral health needs of the community and has undergone a thorough review by external advisory board and external review team of CAA. The revised curriculum is in line with the recent technology and advances in dental sciences. Basic sciences and general education courses are in first 2 year study plan. Students are exposed to clinical orientation from year two. Preclinical courses are more elaborated in years 2 and 3. Clinical training during the year 3 to year 5 is provided under the supervision of highly qualified staff. Moreover, 4 electives course (Optional) are added in 2020-21 onwards curriculum with flexible timing.

The college has well equipped state-of-the-art building with all modern facilities for the basic sciences, preclinical and clinical training of students in its own labs and dental clinics to facilitate the clinical training of the students. This clinical training has made a valuable contribution in comprehensive patient and community based preventive dental care. Free dental treatment in different dental disciplines is provided to patients of various nationalities. The community outreach program of RAKCODS is commendable as it has managed to provide oral hygiene education and motivation to children and labours. Overall, students are more confident in the services being provided by the college. The college is looking forward to expand its program in the future.

RAKCODS is proud of its alumni. Most of them have cleared the licensing exams of UAE and other countries and have secured good placements with reputed hospitals and medical centres. RAKCODS recently released its first E-News Letter which consists of updates of the dental college and its activities. It is a student oriented information portal which provides insights into the latest developments of dentistry and also interesting literature provided by the students under the supervision of the faculty.

The College fosters an understanding of personal integrity and professional ethics in dental practice so that students are better able to serve the community. The college is on its way to establish a vibrant center for study and research in dental sciences.

The administration of the College endeavours to fulfil the mission of the college in terms of academic excellence and professional development. The progress of the college is being monitored through its Strategic Planning. Each objective has a key metric to measure the performance of the college. Reviewing the academic activities of the college, it is evident that the RAK College of Dental Sciences is making significant progress.

I pray for your success and wish a brilliant future

Dr. Muhammed Mustahsen Rahman

Dean, RAK College of Dental Sciences

Vision

To be a leading dental institute in the UAE and the GCC region, dedicated to the pursuit of academic excellence by fostering, disseminating and applying knowledge and intellectual values to ensure an enriching future for the students and making valuable contribution to the community in oral healthcare.

Mission

To prepare graduates who have evidence-based knowledge and skills in the dental profession, enabling them to make a valuable contribution at an individual as well as at community level too. RAKCODS is also committed to contribute to the advancement of knowledge by supporting research conducted by its faculty and students, following ethical practices, in the process of encouraging lifelong learning.

Core Values

RAKCODS conducts all of its activities, contribute to the achievement of its Vision and Mission, and provides education to its students by following the same core value of RAKMHSU.

14.1 Bachelor of Dental Surgery (BDS) Program

The Bachelor of Dental Surgery (BDS) is a five-year program. The dental curriculum has been developed to provide learning opportunities to dental students to acquire fundamental knowledge, develop basic skills, and appreciate principles relevant to oral health care in the context of the community. A key feature of the program is the integration between theory and practice through clinical skills. The program falls in with current advances in dentistry and provides an up-to-date teaching structure.

The Goal

The Dental Curriculum has been designed to achieve the following goals;

1. To ensure that RAKCODS offers academic program in contemporary dental sciences which are recognized locally and regionally for the quality of its educational programs.
2. To promote openness, diversity, just culture and interactive academic learning.
3. To ensure that its graduates are equipped with updated theoretical knowledge and sound clinical skills which make them self-learners and critical thinkers with an ethical orientation.
4. To contribute in the advancement of dental sciences knowledge and practice by support of research conducted through its faculty and students.
5. To render health care services with the highest degree of ethical accountability to self and community.
6. To accentuate the growth of RAKCODS by promoting academic activities in association with other organizations and institutions.

14.2 Program Learning Outcomes

A. Knowledge:

On successful completion of the BDS program the graduates will be able to:

1. Recognize and explain the structure, function and pathogenesis of human body related to oral and maxillofacial region.
2. Integrate the nature, structure and properties of biomaterials and demonstrate their application in dentistry.
3. Demonstrate knowledge and understanding of the complex interrelationship between the biomedical sciences, clinical dental behavioural, and social sciences in oral health care
4. Assess new information and data pertaining their validity and applicability to one's professional decisions.

B. Skills:

On successful completion of the BDS program the graduates will be able to:

5. Take accurate, comprehensive and focused medical and dental histories and perform physical examination of head and neck region including the oral cavity.
6. Evaluate the patient's medical and dental problems and interpret the findings from the various diagnostic aids to formulate appropriate diagnosis.
7. Collect and analyse relevant knowledge from various resources in order to make appropriate clinical decisions for patient's oral health care
8. Formulate and implement a plan of care for both the prevention and treatment of diseases and refer the advanced cases to other health specialties
9. Perform common dental techniques and procedures in pre-clinical and clinical setting.

C. Competence:

On successful completion of the BDS program the graduates will be able to:

Autonomy and Responsibility:

10. Implement honesty and integrity in the relationship while dealing with patients, community and the dental profession.
11. Manage patients independently and/or work in association with other health professionals by applying the scientific basis of different therapeutic modalities
12. Educate, motivate and convince the patient for prevention, oral health promotion, and wellness.

Role in Context:

13. Diagnose the molecular basis of diseases and critique knowledge related to the management of dental problems in professional development.
14. Practice professionalism with ethical standards and social responsibility in all aspects of dental practice.
15. Communicate effectively with patients, their families, colleagues and other health care professionals, recognizing when patients have difficulties in coping with dental care and help them accept their role in prevention and treatment.

Self-Development:

16. Develop an effective working environment as part of an oral health care team, with appreciation of other health care professionals and agencies contributions.
17. Follow the strategies to support self-directed life-long learning, research and innovation in the field of dental sciences.
18. Adapt the ability to work safely and effectively with oral health care providers in diverse setting by upholding professional attitude.

14.3 The Curriculum**14.3.1 General Education Courses**

General Education courses is offered during the first and second year of the BDS curriculum. General education courses cover English (ENG 101), Health Sciences Communication in English (HSE 101), Health Sciences Communication in Arabic (ARB 101), Islamic Culture in Medicine (ICM 101), Information Technology and Innovation (ITI 101), Emirates Society (EMS 101) and Biostatistics and Research Methodology (BRM 101).

14.3.2 Basic Medical and Dental Courses

The courses of the BDS program mainly include basic medical and dental subjects. Program incorporates an interdisciplinary approach, with courses including Anatomy, Physiology, Oral Biology, Pathology, Pharmacology, Microbiology, Biochemistry, General Medicine, General Surgery and Evidence Based Dentistry. During this period, emphasis is placed on small-group teaching and self-directed learning.

The curricula of basic medical sciences in the first and second years have been arranged system-wise. For the basic science courses, the student will simultaneously study head and neck anatomy, physiology, biochemistry associated with systems through problem-oriented learning (POL) approach. This will help the students to achieve horizontal integration of the knowledge of the normal structure and function of the human body in general and oral cavity in particular. Similarly, integration of the second year courses with the first year courses will be achieved by following a system-based structuring of Pathology, Microbiology and Pharmacology relevant to oral health sciences.

14.3.3 Pre-Clinical Courses (Year 2 and Year 3)

These courses focused mainly for training the students in Pre-Clinical Periodontics, Pre-Clinical Operative Dentistry, Community Dentistry, Pre-Clinical Prosthodontics, Pre-Clinical Endodontics, Pre-Clinical Oral Surgery, Infection Control, Oral Pathology and Oral Radiology.

After nomenclature of instruments and related apparatus is presented, attention will be focused on the proper use and operation of the simulation units, phantom head and prosthetic laboratory. The student will then be introduced to basic procedures and the use of related materials and procedures through practical sessions.

Biological and mechanical designs are learned and practiced using the methods of site isolation and instrumentation. Preclinical operative dentistry course presents the techniques and procedures for the preparation and restoration of teeth with special attention to the biological aspects involved in the restoration of teeth with emphasis on the preservation of the vital tooth tissue and the supporting structures. Preclinical Periodontics course will provide the students an opportunity to learn different position for removal of deposits on the tooth surface by using phantom head.

Preclinical course in Prosthodontics, exposes the student to the basic laboratory procedures of Removable Prosthodontics. The student will be assigned a simulated patient in the form of replicas (casts) of the residual ridges of edentulous areas mounted on a semi-adjustable dental laboratory articulator. The laboratory procedures will employ the fabrication of custom impression trays, occlusion rims, the setting of artificial dentitions, and the festooning of waxed-up trial dentures. Additionally, the student will flask, pack, de-flask, and polish the finished acrylic resin dentures, followed by adjustment of the denture occlusion/articulation.

Through courses in community dentistry, students gain an appreciation of the factors involved in controlling dental disease, together with epidemiology and statistical techniques, and key ethical and medico-legal issues that surround the practice of dentistry.

14.3.4 Clinical Courses

Clinical Orientation in Year 1 and 2, BDS Program

The concept of early clinical contact for year1 and year 2, BDS program is to enhance student motivation and provide them an opportunity for better integration.

The students will be aware of the degree of team working, professionalism and care required during patient assessment and management from the observation of a dentist during work experience. Even though the students do not have direct contact with patients, the integration of clinical observation in the BDS program means that the relationship of basic medical science subjects to the treatment of patients and disease elimination is immediately apparent to students.

Clinical Courses in Year 3 to Year 5

The years 3, 4 and 5 of the academic program are set to meet specific needs of the students in order to cover topics and develop skills in clinical dentistry. The program involves theoretical and clinical components in main clinical disciplines. Clinical teaching at the student clinics provides opportunities for students to gain extensive and varied clinical experience under the supervision of highly qualified staff. Students will begin interacting with and analysing the patients' findings in the first clinical year.

As students' progress, the clinical program covers courses such as Clinical Periodontology, Operative Dentistry, Oral Medicine & Oral Diagnosis, Oral Surgery, Clinical Prosthodontics, Orthodontics, Clinical Endodontics, Pediatrics Dentistry, Treatment Planning, Geriatric & Hospital Dentistry, Applied Biostatistics, Research Project and Comprehensive Clinical Dentistry.

In the Comprehensive Clinical Dentistry course, students are assigned patients for comprehensive dental care for their follow up patients and new patients. Dental Ethics & Practice Management is to recognize ethical problems, which may arise in the performance of academic work, clinical treatment, or research and to have capabilities of analysing and addressing these problems. Research Project provides the students an opportunity to explore, develop an interest in basic or clinical dental sciences.

14.3.5 Elective Courses

Four Elective courses viz., Esthetic Dentistry, Rehabilitation in Paediatric Dentistry, Advanced Endodontics and Dental Implantology, are offered. These are optional courses.

14.4 Study Plan for BDS Program

The college has revised its existing BDS study plan as per the Ministry of Education requirements (Reforming Dentistry Programs) and guidelines of National Qualifications Framework United Arab Emirates (QFE).

Courses and credit hours of the BDS Study Plan 2021-22 are summarized as:

1. General Education Courses (21 credits (10.45 %) :

Course Name	Course Code	Year	Semester	Credit Hours
English	ENG 101	1	1	3
Health Sci. Comm. In Arabic	ARB 101	1	1	3
Information Technology and Innovation	ITI 101	1	1	3
Health Sci. Comm. in English	HSE 101	1	2	3
Islamic Culture in Medicine	ICM 101	1	2	3
Emirates Society	EMS 101	1	2	3
Biostatistics and Research Methodology	BRM 101	2	Summer	3

Basic & Medical Education Courses (42 credits (20. 89 %) :

Course Name	Course Code	Year	Semester	Credit Hours
Anatomy - Head & Neck and Cell Biology	DAH 126	1	1 and 2	6
Physiology	DPH 126	1	1 and 2	6
Oral Biology & Tooth Morphology	DOB 126	1	1 and 2	6
Biochemistry	DBC 226	2	3 and 4	6
Pathology	DPA 224	2	3 and 4	4
Pharmacology and Therapeutics	DPT 224	2	3 and 4	4
Microbiology	DMB 212	2	3	2
Ethics in Dental Practice	DED 211	2	3	1
Evidence Based Dentistry	DEB 212	2	3	2
General Medicine	DGM 213	2	4	3
General Surgery	DGS 212	2	4	2

Pre-clinical Dental Sciences Courses (44 credits (21.89 %) :

Course Name	Course Code	Year	Semester	Credit Hours
Infection Control	DIC 212	2	3	2
Clinical Orientation	DCO 211	2	3	1
Practice Management	DPM 211	2	3	1
Pre-Clinical Operative Dentistry	DOD 225	2	3 and 4	5
Pre-Clinical Periodontics	DPR 213	2	4	3
Community Dentistry	DCD 326	3	5 and 6	6
Pre-Clinical Prosthodontics	DPP 328	3	5 and 6	8
Pre-Clinical Oral Surgery	DOS 326	3	5 and 6	6
Oral Pathology	DOP 326	3	5 and 6	6
Oral Radiology	DOR 324	3	5 and 6	4
Pre-Clinical Endodontics	DEN 312	3	Summer	2

Clinical Dental Sciences Courses (94 credits (46.76 %) :

Course Name	Course code	Year	Semester	Credit hours
Clinical Periodontics	DPR 326	3	5 and 6	6
Oral Medicine & Oral Diagnosis	DOM 314	3	Summer	4
Clinical Operative Dentistry	DOD 426	4	7 and 8	6
Clinical Prosthodontics	DPC 428	4	7 and 8	8
Clinical Endodontics	DEN 427	4	7 and 8	7
Clinical Oral Surgery	DOS 427	4	7 and 8	7
Clinical Pediatric Dentistry	DPD 428	4	7 and 8	8
Hospital & Geriatric Dentistry	DHG 413	4	Summer	3
Treatment Planning & Seminar	DPT 413	4	Summer	3
Clinical Orthodontics	DOR 526	5	9 and 10	6
Research Project	DRP 522	5	9 and 10	2
Comprehensive Clinical Dentistry - 1	DCC 5228	5	9 and 10	28
Comprehensive Clinical Dentistry - 2	DCC 516	5	Summer	6

Study Plan for BDS Program 2021-2022

First Year Courses

SEMESTER 1					SEMESTER 2				
Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Year Exams
		Theory	Practical				Theory	Practical	
ENG 101	English	3	0	ENG 101	HSE 101	Health Science Communication Skills in English	3	0	HSE 101
ARB 101	Health Science Communication Skills in Arabic	3	0	ARB 101	ICM 101	Islamic Culture in Medicine	3	0	ICM 101
ITI 101	Information Technology and Innovation	2	1	ITI 101	EMS 101	Emirates Society	3	0	EMS 101
DAH 126	Anatomy - Head & Neck and Cell Biology	2	1	Continuous Course	DAH 126	Anatomy - Head & Neck and Cell Biology	2	1	DAH 126
DPH 126	Physiology	2	1	Continuous Course	DPH 126	Physiology	2	1	DPH 126
DOB 126	Oral Biology and Tooth Morphology	2	1	Continuous Course	DOB 126	Oral Biology and Tooth Morphology	2	1	DOB 126
Semester Total		14	4		Semester Total		15	3	

Second Year Courses

SEMESTER 3					SEMESTER 4				
Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Year Exams
		Theory	Practical				Theory	Practical	
DBC 226	Biochemistry	2	1	Continuous Course	DBC 226	Biochemistry	2	1	DBC 226
DPT 224	Pharmacology and Therapeutics	2	0	Continuous Course	DPT 224	Pharmacology and Therapeutics	2	0	DPT 224
DPA 224	Pathology	2	0	Continuous Course	DPA 224	Pathology	1	1	DPA 224
DOD 225	Pre-Clinical Operative Dentistry & Biomaterials	2	1	Continuous Course	DOD 225	Pre-Clinical Operative Dentistry & Biomaterials	1	1	DOD 225
DMB 212	Microbiology	1	1	DMB 212	DGM 213	General Medicine	2	1	DGM 213
DIC 212	Infection Control	2	0	DIC 212	DGS 212	General Surgery	2	0	DGS 212
DED 211	Ethics in Dental Practice	1	0	DED 211	DPM 211	Practice Management	1	0	DPM 211
DEB 212	Evidence Based Dentistry	2	0	DEB 222	DPR 213	Pre-Clinical Periodontics	2	1	DPR 213
DCO 211	Clinical Orientation	0	1	DCO 211					
Semester Total		14	4		Semester Total		13	5	

Summer Semester

Code	Title	Credit Hours		End Sem. Exams
		Theory	Practical	
BRM 101	Biostatistics & Research Methodology	3	0	BRM 101

Third Year Courses

SEMESTER 5					SEMESTER 6				
Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Year Exams
		Theory	Practical/ Clinical				Theory	Practical/ Clinical	
DCD 326	Community Dentistry	2	1	Continuous Course	DCD 326	Community Dentistry	2	1	DCD 326
DPP 328	Pre-Clinical Prosthodontics & Biomaterials	2	2	Continuous Course	DPP 328	Pre-Clinical Prosthodontics	2	2	DPP 328
DOS 326	Pre-Clinical Oral Surgery	2	1	Continuous Course	DOS 326	Pre-Clinical Oral Surgery	2	1	DOS 326
DOP 326	Oral Pathology	2	1	Continuous Course	DOP 326	Oral Pathology	2	1	DOP 326
DOR 324	Oral Radiology	1	1	Continuous Course	DOR 324	Oral Radiology	1	1	DOR 324
DPR 326	Clinical Periodontics	1	2	Continuous Course	DPR 326	Clinical Periodontics	1	2	DPR 326
Semester Total		10	8		Semester Total		10	8	

Summer Semester

Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Sem. Exams
		Theory	Practical				Theory	Practical	
DEN 312	Pre-Clinical Endodontics	1	1	DEN 312	DOM 314	Oral Medicine and Oral Diagnosis	2	2	DOM 314

Fourth Year Courses

SEMESTER 7					SEMESTER 8				
Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Year Exams
		Theory	Clinical				Theory	Clinical	
DOD 426	Clinical Operative Dentistry	1	2	Continuous Course	DOD 426	Clinical Operative Dentistry	1	2	DOD 426
DPC 428	Clinical Prosthodontics (Partial & Complete Denture)	1	3	Continuous Course	DPC 428	Clinical Prosthodontics (Fixed Prosthesis)	1	3	DPC 428
DEN 427	Clinical Endodontics	1	2	Continuous Course	DEN 427	Clinical Endodontics	1	3	DEN 427
DOS 427	Clinical Oral Surgery	1	2	Continuous Course	DOS 427	Clinical Oral Surgery & Implantology	2	2	DOS 427
DPD 428	Clinical Pediatric Dentistry	2	3	Continuous Course	DPD 428	Clinical Pediatric Dentistry	1	2	DPD 428
Semester Total		6	12		Semester Total		6	12	

Summer Semester

Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Sem. Exams
		Theory	Practical				Theory	Practical	
DHG 413	Hospital & Geriatric Dentistry	1	2	DHG 413	DTP 413	Treatment Planning & POL	3	0	DTP 413

Fifth Year Courses

Fifth Year Courses	SEMESTER 9					SEMESTER 10				
	Code	Title	Credit Hours		End Sem. Exams	Code	Title	Credit Hours		End Year Exams
			Theory	Clinical				Theory	Clinical	
	DOR 526	Clinical Orthodontics	2	1	Continuous Course	DOR 526	Clinical Orthodontics	2	1	DOR 526
	DCD 5228	Comprehensive Clinical Dentistry -I	0	14	Continuous Course	DCD 5028	Comprehensive Clinical Dentistry -I	0	14	DCD 5028
	DRP 522	Research Project	1	0	Continuous Course	DRP 522	Research Project	1	0	DRP 522
	Semester Total		3	15		Semester Total		3	15	

Summer Semester

Code	Title	Credit Hours		End Sem. Exams
		Theory	Practical	
DCD 516	Comprehensive Clinical Dentistry -II	0	6	DCD 516

Theory : One contact hour is equal to one credit hour

Practical and Clinical : One credit hour is equal to two contact hours

RAKCODS have offered following 4 Elective courses during the summer semester of year 4 and 5:

1 – Esthetic Dentistry (DES 412) - Summer Semester 2 Year 4

2 – Rehabilitation in Pediatric Dentistry (DRD 412) - Summer Semester 2 Year 4

3 – Advanced Endodontics (DAE 512) - Summer Semester 2 Year 5

4 – Dental Implantology (DDI 512) - Summer Semester 2 Year

14.5 Description of Courses

14.5.1 General Education Courses (Please refer Section 12.4)

DAH 126 Anatomy-Head & Neck and Cell Biology

Credit Hours: (4 + 2 = 6)

This course provides an understanding of the basic anatomy, embryology, histology, imaging and relevant clinical anatomy of the oral cavity, nasal cavity, Para nasal sinuses, pharynx, larynx, temporomandibular joint, Face, scalp, osteology of skull, hyoid and mandibular bones and general outline of Respiratory, cardiovascular and digestive system. The course prepares the students for the application of head and neck anatomy and embryology and radiology in clinical sciences, which will help them towards diagnosis of clinical disorders.

DPH 126 Physiology

Credit Hours: (4 + 2 = 6)

Physiology is a six-credit course offered in the first year of the BDS program. The course provides a system-based approach to the normal organ functions and the various physiological processes of the body that maintain homeostasis. It covers cellular structure and function, muscle types, excitability and mechanism of contraction, and details of blood, cardiovascular, digestive, respiratory, excretory, endocrine, reproductive, and central nervous systems, and special senses. Students can apply this knowledge to understand the physiological adaptations to special conditions, and to explain the physiological basis of oro-dental health and disease. The course is facilitated through interactive lecture sessions, self-directed learning, practical sessions and course examinations.

DOB 126 Oral Biology and Tooth Morphology

Credit Hours: (4 + 2 = 6)

This course describes the micro and macro structures and function of the oral cavity including, teeth, bone, soft tissues and salivary glands and associated structures along with theories of formation, growth, development of these tissues. The course also describes the anatomical and morphological characteristics of teeth and their supporting structures, the inter-arch and intra-arch relationships. The course enables students to incorporate and integrate the knowledge of structure and development of oro-facial tissues in their future clinical practice to develop the knowledge and skills necessary for clinical diagnosis and treatment planning.

DBC 226 Biochemistry

Credit Hours: (4 + 2 = 6)

The course builds upon an understanding of the normal structure and function of the human body, and enables the students to relate the basic concepts of general pathology to understand the pathogenesis and morphology of diseases.

DPT 224 Pharmacology and Therapeutic

Credit Hours: (4 + 0 = 4)

The course describes the principles of pharmacokinetics and pharmacodynamics including factors that modify drug action. The course also describes the mechanism of action, therapeutic uses, adverse reactions, contraindications, drug interactions along with salient pharmacokinetic features and dental implications of the drugs used in inflammatory conditions, infective diseases including bacterial, viral, fungal and parasitic infections, cancer, autoimmune disorders, anaemias, disorders of haemostasis, hyperlipidaemia and gastrointestinal disorders. The course also describes the mechanism of action, therapeutic uses, adverse reactions, contraindications, drug interactions along with salient pharmacokinetic features and dental implications of the drugs used in cardiovascular, respiratory, endocrine and central nervous systems and, general and local anesthetics.

DPA 224 Pathology**Credit Hours: (3 + 1 = 4)**

The course builds upon an understanding of the normal structure and function of the human body, and enables the students to relate the basic concepts of general pathology to understand the pathogenesis and morphology of diseases.

DOD 225 Pre-Clinical Operative Dentistry & Biomaterials**Credit Hours: (3 + 2 = 5)**

The course describes the basic concepts of cavity design with minimum cavity extension, materials used in the various conservative procedures, their manipulation, and properties. This course also highlights the diagnosis, prevention and management of dental caries. The concepts of minimally invasive dentistry for incipient caries and complex restorations for grossly damaged teeth are introduced to develop the students' knowledge and skills for future clinical work. Pre-clinical laboratory sessions and demonstrations will help the students to develop skills to utilize the materials in conservative techniques.

DMB 212 Microbiology**Credit Hours: (1 + 1 = 2)**

Microbiology course provides the student with an understanding of the natural history of oral infections and other systemic infectious diseases with oral manifestations. The course covers oral microbiology, immunology and microbial interactions with human host in health and disease. It provides the foundation of the roles of microbes and host response in oral health and disease, and to utilize this knowledge for the prevention of oral diseases such as caries and periodontitis.

DGM 213 General Medicine**Credit Hours: (2 + 1 = 3)**

This course provides the students with the etiology, signs and symptoms of common medical problems encountered during dental practice, which may complicate the delivery of quality dental care. Undertaking the course ensures that graduate practitioners understand when to refer and indication for complex treatment. Also, to enable the students to recognize problems in the medical history of patients as a prerequisite to the whole patient care and health promotion approach to modern dentistry.

DIC 212 Infection Control**Credit Hours: (2 + 0 = 2)**

The course focuses on the protocols of infection control and the mechanisms by which infectious diseases are transmitted in dental practice. Introduce to the Students understanding about the meaning and importance of infection control in dental practice and the methods required for it.

DGS 212 General Surgery**Credit Hours: (2 + 0 = 2)**

General surgery is a two credit course offered in the 4th semester of the second year Dental program. The aim of the course is to introduce the student to the basic concept of surgical patient. The course includes general principle of surgery and surgical patient, which includes preparing patients for surgery and anaesthesia, identifying the high-risk patient during the peri-operative period as well as surgical wound care and wound healing. The second part is specific to surgical topics relevant to dental students, with stress on topics related directly to the learning outcome, the students will be asked to write in one of the related topics this is active self-directed learning that will make them read more on specific topics.

DED 211 Ethics in Dental Practice**Credit Hours: (1 + 0 = 1)**

This course helps students to understand the place of ethics in professional life, to recognize when an ethical problem exists in the performance of academic work, clinical treatment, or research, and to have the capability of analyzing and addressing the problem.

DPM 211 Practice Management**Credit Hours: (1 + 0 = 1)**

Practice management course focuses on dentistry as a business, dental team & patient, management, importance of legal and ethical issues, communication skill, financing, purchasing equipment, documentation and regulations of dental practice management. The course introduce students to those business skills that will contribute to a more efficient and cost effective delivery of dental care in the private practice setting.

DEB 212 Evidence Based Dentistry**Credit Hours: (2 + 0 = 2)**

This course is designed to teach students how to find, evaluate and apply research evidence to make decisions regarding the care of their patients.

DPR 213 Pre-Clinical Periodontics**Credit Hours: (2 + 1 = 3)**

This course exposes the students with a complete spectrum of normal structure of periodontium, various forms of periodontal diseases, plaque and systemic conditions affecting the periodontal tissues. Etiology, pathology and clinical features associated with gingival and periodontal diseases and diagnosis of plaque associated and non-plaque associated lesions are also described. Practical components includes examination, oral hygiene index and periodontal charting. Practical training on phantom head will prepare the students to develop manual skills on phantom head for non-surgical periodontal therapy.

DCO 211 Clinical Orientation**Credit: (0 + 1 = 1)**

The concept of clinical orientation is to acquaint the students with dental operatory. The students will be made aware of team working and patient care by observing their seniors during the clinical work. Students will have an opportunity to observe clinically normal oral tissues, dental plaque and caries. The course also familiarizes the students with infection control protocol and Hospital Information Management System (HIMS).

DCD 326 Community Dentistry**Credit Hours: (4 + 2 = 6)**

This course introduces the students to different oral health problems at a community level along with general epidemiological methods. The course content will contribute to the concepts and practice of health promotion. It also prepares the students to understand and fulfil their responsibility to improve oral health of the community.

DPP 328 Pre-Clinical Prosthodontics& Biomaterials**Credit Hours: (4 + 4 = 8)**

This course introduces the principles and lab procedures related to dental materials, removable and fixed prostheses. It describes the knowledge for use of dental materials, practical skills for handling the materials and preparation of removable and fixed prostheses. A thorough knowledge will be provided into the terminologies, techniques and skills for the fabrication of these prostheses.

DOS 326 Pre-Clinical Oral Surgery**Credit Hours: (4 + 2 = 6)**

This course presents the complete pharmacology of local anaesthetic agents and commonly used injection techniques. The course also includes different methods of pain control, dental management of the medically compromised patients and medical emergencies in dental practice. Practical training will prepare students for manual implementation of different technique of local anaesthesia, as well as examination of compromised patients.

DOB 326 Oral Pathology**Credit Hours: (4 + 2 = 6)**

The course is designed to study diseases involving the soft tissues, bone and dental hard tissues of the maxillofacial region. The course highlights on pathogenesis, clinical and radiographic presentation and microscopic changes of all reactive, infective and neoplastic processes involving the head and neck region, specifically the oral cavity. The course also provides an overview of diagnostic procedures and treatment of oral disease are introduced in relationship to the clinical and radiographic presentation and pathogenesis. In addition, it emphasizes on the clinical recognition of diseases, radiographic interpretation and formulation of an appropriate differential diagnosis.

DOR 324 Oral Radiology**Credit Hours: (2 + 2 = 4)**

The course focuses on the basic principles of X-ray production, the biological damage effects of ionizing radiation and protection from radiation hazards. Students learn to take all intraoral and extra oral skull different radiographic techniques, Students are practice the interpretation of different radiographs and deals with advanced techniques in dental radiology. Students learn how to assess clinical cases and make differential diagnosis between normal anatomical landmarks and types of radiolucent & radiopaque lesions with preparation of accurate report for of radiographic interpretation.

DPR 326 Clinical Periodontics**Credit Hours: (2 + 4 = 6)**

The course focuses on diagnosis, prognosis and treatment planning of various forms of periodontal diseases based on the comprehensive clinical examination. An appropriate, comprehensive, properly sequenced and individualized therapeutic treatment plan based on the evaluation of all diagnostic data in patients with periodontal diseases is an essential component. The course describes nonsurgical periodontal therapy and knowledge necessary for surgical periodontal therapy. Students will be able to perform non- surgical periodontal procedures and diagnose cases, which require surgical treatment.

DEN 312 Pre-Clinical Endodontics**Credit Hours: (1 + 1 = 2)**

The course focus on knowledge of pulp diseases, diagnosis and treatment planning related to endodontics, and train the student to perform endodontic procedures in clinical situations. The course describes diagnose, plan and successfully manage teeth with pulpal involvement. Important fundamentals are stressed with emphasis on problem solving skills, critical thinking, radiographic interpretation and self-assessment criteria.

DOM 314 Oral Medicine & Oral Diagnosis**Credit Hours: (2 + 2 = 4)**

The course describes various oral diseases and conditions; including white lesions of the oral mucosa; oral ulcerations; disorders of pigmentation and pigmented lesions; vesicular and bullous lesions, their clinical presentations, diagnosis and management. The course also deals with the common oral manifestations of medically complex patients, primary and acquired immunodeficiency, salivary gland dysfunction, a typical facial pain and chemosensory disorder, including their management. Emphases on relevance of thorough medical history taken, proper communication with patient, proper use of diagnostic tools, including biopsies to gather the necessary data for establishing diagnosis and setting up treatment plans are also discussed.

DOD 426 Clinical Operative Dentistry**Credit Hours: (2 + 4 = 6)**

The clinical operative dentistry course builds on the preceding principles and techniques presented in the pre-clinical operative course while expanding the area of diagnosis, treatment planning and management of assigned patients. This course helps to provide the knowledge, technical skills, critical thinking and judgment for caries diagnosis and prevention, minimal intervention, restoration of posterior and anterior teeth and endodontically treated teeth and management of complex carious lesions, non-carious cervical lesions, root caries, dentin hypersensitivity and teeth discoloration. A correlation between operative dentistry and allied restorative specialties is to be established.

DPC 428 Clinical Prosthodontics**Credit Hours: (2+ 6 = 8)**

The course focuses on diagnosis, treatment planning and prognosis of removable and fixed prosthodontic cases based on the comprehensive clinical examination. A detailed individualized treatment plan based on the evaluation of all diagnostic findings is an essential component. This course outlines all types of removable and fixed dental prostheses treatment procedures. Students are required to acquire adequate knowledge and skills to perform all the prosthodontic procedures outlined in the course syllabus.

DEN 427 Clinical Endodontics**Credit Hours: (2 + 5 = 7)**

The course focus on knowledge of pulp diseases, diagnosis and treatment planning related to endodontics, and train the student to perform endodontic procedures in clinical situations. The course describes diagnose, plan and successfully manage teeth with pulpal involvement. Important fundamentals are stressed with emphasis on problem solving skills, critical thinking, radiographic interpretation and self-assessment criteria.

DOS 427 Clinical Oral Surgery and Implantology**Credit Hours: (3 + 4 = 7)**

The course focuses on diagnosis, prognosis and treatment planning of common dento-alveolar problems with an emphasis on oral surgical procedures performed by general dental practitioner. The course also describes the principles of management of impacted teeth, endodontic and pre-prosthetic surgery, primary and secondary survey of maxillofacial trauma, salivary glands, Temporomandibular joint diseases, cleft lip and palate, orthognathic surgery and implantology. Students will be able to diagnose, prognose and to perform non- surgical and surgical extractions.

DPD 428 Clinical Paediatric Dentistry**Credit Hours: (3 + 5 = 8)**

This course is an age dependent specialty. The course provides training in primary and comprehensive, preventive and therapeutic oral health care for infants and children through adolescence, including children with special health care needs. The course will provide the student with sufficient education and training for diagnosis, treatment planning and clinical care for the young population. In addition, graduates will demonstrate critical thinking and decision-making and life-long learning skills.

DHG 413 Hospital and Geriatric Dentistry**Credit Hours: (1 + 2 = 3)**

This course provides an opportunity for the students to observe hospitalized patients with severe medical and surgical problems. It enables students to understand the basic principles of hospital regulations including admission, discharge, sterilization, infection control, operating theatre, ICU, CCU, & other emergency departments.

The course summarizes the aging process and its associated epidemiologic, sociologic, psychosocial factors and the impact of these conditions on oral health, various oral disease findings and subsequent therapies. It also discusses the common medical conditions including their etiologies and appropriately design a plan of action for their older adult patients who present with these conditions in a systematic fashion to achieve evidence-based treatment.

DTP 413 Treatment Planning and Problem-Oriented Learning**Credit Hours: (3 + 0 = 3)**

This course focus on patient examination, interpretation of diagnostic findings, patient education, oral health risk assessment, development of personalized prevention strategies, development of comprehensive, sequenced treatment plans and patient management using case studies and patients presented by students.

DOR 526 Clinical Orthodontics**Credit Hours: (4 + 2 = 6)**

This course provides the students with knowledge about the basic terminologies, rationale of orthodontic treatment, facial growth, development of normal occlusion, classification of malocclusion, etiology of malocclusion, diagnosis skills, extra and intra oral examination, study model analysis, cephalometric analysis, histology and physiology of tooth movement. Also, it explains knowledge of biomechanics principles, anchorage, retention and relapse. The course covers the principles of various removable, functional and fixed appliances; their indications, contra-indications and their use for the non-skeletal and skeletal treatment planning of class I, II and III malocclusions. Treatment of adults, cleft lip and palate and maxillary canine management and recent advances in orthodontic treatment are also discussed.

DCD 5228 Comprehensive Clinical Dentistry -1**Credit Hours: (0 + 28 = 28)**

This training is designed to further improve the clinical skills in diagnosis, comprehensive treatment planning and management of patients with various dental problems as comprehensive care under the supervision of clinical faculty & staff.

DRP 522 Research Project**Credit Hours: (2 + 0 = 2)**

This course provides the students an opportunity to select a suitable topic for research in dental sciences under guidance of the course coordinator and a member of the dental faculty. Students learn how to work independently and be creative in their thoughts and ideas.

The course offers knowledge on application of the basic principles of research design, methods of data collection and how to analyse them in dental health sciences. The course also provides the steps necessary to design and write a research project.

DCD 516 Comprehensive Dentistry -II**Credit Hours: (0 + 6 = 2)**

This training is designed to improve the clinical skills in diagnosis, comprehensive treatment planning and management of patients with various dental problems as comprehensive care under the supervision of clinical faculty & staff.

Elective Courses:**DES 412 Esthetic Dentistry****Credit Hours: (1 + 1 = 2)**

This course prepares the students to diagnose, form a treatment plan and perform a number of esthetic procedures with the latest available materials. It encompasses a broad approach to the total esthetic needs of the patient. Esthetic dentistry course is supported by new developments, innovative techniques and a wealth of new scientific data to share new information with students.

DRD 412 Rehabilitation in Paediatric Dentistry Credit Hours**Credit Hours: (1 + 1 = 2)**

This course describes the principles of comprehensive oral rehabilitation in pediatric patients. The subject focuses on proper case selection, behaviour guidance, conscious sedation and the management of multiple surface restorations in children, inclusive of stainless steel crowns and other clinical procedures with emphasis on all levels of prevention applicable to pediatric dentistry.

DAE 512 Advanced Endodontics**Credit Hours: (1 + 1 = 2)**

The advanced endodontics course builds on the preceding principles and techniques presented in the clinical endodontics course. This course gives the fundamental knowledge for excellence in endodontic treatment with emphasis on advanced endodontic topics and a correlation between endodontics and allied restorative specialties is to be established. The course format will involve a combination of lectures and case discussion with hands-on training on certain new technologies in endodontics. Students will have access to the latest equipment, including operating microscopes and rotary instruments. This advanced education in endodontics is a 6-month course offering a comprehensive educational experience. It is intended to increase students' knowledge and endodontic literacy through didactic coursework and to enhance skills through clinical experience.

DDI 512 Dental Implantology**Credit Hours: (1 + 1 = 2)**

This course presents the complete orofacial anatomy, bone physiology, concept of osseointegration and tissue reaction on implant material. The course also includes different methods in oral diagnostics and treatment planning. The course includes basic surgical principles in implant dentistry as well as standard surgical principles and surgical principles in esthetic zone, implant therapy of patients with unsatisfactory anatomic conditions, postoperative treatment and management of therapy complications. Course will presents the introduction with prosthetic components of implant, planning of restorative procedure and basic prosthetic principles. It also includes principles of fixed and removable restorations on dental implants in no-esthetic and esthetic zone.

Practical training will prepare students for pre-implant treatment and knowledge of surgical therapy strategy as well as prepare students for knowledge of surgical implant procedure in different case conditions. Practical training will prepare students for knowledge of restorative procedure on dental implants in different case conditions.

14.6 Dental Internship

Dental Internship is an optional training program at RAK College of Dental Sciences and is based on the philosophy of Comprehensive Dental Care for patients under the supervision of qualified clinical faculty.

- Internship is a UAE government requirement. Interns are encouraged to make enquiries with the dental practice regulatory bodies (MOH in UAE, for example) in their respective countries with respect to the current dental practice licensing regulations.
- As there are limited numbers of seat for interns, merit will be strictly followed for the intake of all interns as per the selection criteria of the university.
- Decision of the three members from the core clinical faculty will be considered as the final for the intake if interns.
- The duration for internship training is one year as per the academic calendar of the university.
- Interns are expected to attend all the sessions. However, 75% attendance in clinical sessions is mandatory.
- Trainees are required to complete the clinical requirements over a period of one academic year in all major disciplines of dentistry (Please refer to Internship manual for details).
- Intern's progress in all aspects of general dental practice will monitor throughout the clinical training by the specialists.
- Interns are expected to obey polices of the clinic along with the rules and regulations of the University.
- Interns are expected to obey polices of the clinic along with the rules and regulations of the University.

14.6.1 Admission requirements for Internship program

1. BDS/DDS certificate attested equalized by Ministry of High Education and Scientific Research, UAE
2. Good character certificate by university last attended
3. Completely filled Registration Form
4. Copy of Passport / identity card "ID"
5. Copy of Residence Visa
6. Medical Fitness or vaccination certificate

14.6.2 Internship Certificate

Internship certificate will be awarded on successful completion of clinical requirements (satisfactory grade) on the basis of clinical competency without any grade.

15. RAK College of Pharmaceutical Sciences

Dean's Message

Dear Students,

Welcome to RAK College of Pharmaceutical Sciences. You are very fortunate to have taken admission to the RAK College of Pharmaceutical Sciences, which will take all the responsibility to develop you as young professional Pharmacists.

The goal of RAKCOPS is to provide you with the necessary knowledge, skills and competence to practice pharmacy effectively and usefully in the society.

B.Pharm curriculum is dynamic, need based and interesting. It has evolved continuously for over 13 years and standardized in many aspects like courses, content, laboratory exercises, team based learning continuous assessment, practice school training, end semester examinations etc., which will be an enjoyable learning experience for the students.

The B.Pharm program is of 4 ½ years duration with 4 years of course work along with industry and community Pharmacy rotations in the 8th semester. Ninth semester or last 6 months is exclusively for clinical training in hospital. This will expose the students to real life situations and prepare them to face the different challenges in their profession.

RAKCOPS is also offering MS Programs in Clinical Pharmacy, Pharmaceutics and Pharmaceutical Chemistry to prepare specialist Pharmacists in their chosen field.

Regular programs during the academic year including Students Orientation, Students Scientific Conferences, Community Outreach Activities, visits to hospitals and industries, Dubai International Pharmaceuticals and Technologies Conference and Exhibition (Duphat), research and publications etc., will motivate the students for higher educational goals.

RAKCOPS is proud to have an independent academic block with the state of the art lecture halls, laboratories, libraries, including satellite libraries, pharmacy skills laboratory and many other facilities like central research laboratory, animal house etc.

Please make the best use of experienced and dedicated faculty, infrastructure, facilities, Library resources and other amenities available in the university.

Best wishes for a fulfilling and accomplishing academic year 2021-2022.

Dr. Padma G.M.Rao

Dean, RAK College of Pharmaceutical Sciences



Vision

To be a leading College of Pharmaceutical Sciences in the UAE and to ensure an enriching future for the student community, with excellent knowledge, skills & competence towards pharmaceutical care in the 21st century.

Mission

RAK College of pharmaceutical Sciences is committed through its offering of academic programs to make a valuable contribution to patient and the health care system and by promoting the advancement of knowledge and research in drug development through Industry academia interaction.

RAK College of Pharmaceutical Sciences mission is to serve the student community without any bias based on race, religion, ethnicity etc., and to provide equal opportunity to all.

Goals:

1. To offer academic programs of high quality in pharmaceutical sciences which are recognized nationally, regionally and internationally.
2. To promote openness, diversity, fairness and academic freedom.
3. To ensure that the students are equipped with adequate knowledge and skills to enter successfully into the different fields of pharmaceutical sciences & practice.
4. To contribute to the advancement of knowledge of pharmaceutical sciences and practice through research.
5. To render ethical healthcare and service to the patients with the highest degree of accountability to self and community.
6. To promote inter-institutional alliance with premier colleges of pharmaceutical sciences, drug industries and universities.

15.1 Bachelor of Pharmacy Program outcomes (B Pharm)

Bachelor of Pharmacy Program (B.Pharm.) is aligned at level seven of the ten level Qualification Framework Emirates comprises of 4 ½ years' duration with four years of course work and 6 months of practice school.

15.2 Goals & Objectives

The curriculum has been developed to provide learning opportunities enabling the students to acquire fundamental knowledge, develop basic skills and competence, relevant to health care in the context of patients and community.

The 4 ½ year curriculum has been designed to achieve the following goals :

- Provide a comprehensive pharmaceutical education leading to B.Pharm Degree.
- Prepare for an evidence based pharmacy practice in the changing health care environment of the 21st Century.
- Integrate the basic sciences with pharmaceutical sciences to enable the students to apply their knowledge to health care.
- Impart pharmaceutical knowledge with skills to enable the students to deliver efficient pharmaceutical care.
- Develop a professional and compassionate approach in the implementation and management of health care
- Provide a practice and community based pharmacy education program.
- Prepare pharmacists who can function effectively in the multidisciplinary health care system.

15.3 Program learning outcomes

At the end of the Program, the students will be able to

A. Knowledge

1. Develop the required knowledge of Pharmaceutical Sciences, Administrative and Practice related components to formulate evidence-based care plans to offer enhanced patient care.
2. Illustrate the scientific basis of health, disease, and treatment of common medical conditions in the society, accommodating the local cultural values, beliefs and practice.
3. Integrate the pathological, genomics and molecular basis of disease modalities to diagnose common conditions and recommend to prescribe the most effective and safest treatment for the patient.
4. Apply the various concepts and components of foundational, pharmaceutical, and clinical sciences in different practice settings such as community, hospital and industry.
5. Describe the synthesis, extraction, formulation, analysis, therapeutic efficacy and safety of pharmaceutical agents, including cosmetics and herbal medicines to promote health, wellness and preventive care.
6. Abide by the local, national, and relevant international regulations, guidelines, moral and ethical codes governing pharmacy practice.
7. Apply the knowledge of pharmaceutical sciences for optimal utilization of drugs by solving therapeutic problems of patients in an ethical and professional manner.

B. Skills

- 8 Communicate effectively using appropriate language skills and processes with patients, their caregivers, and healthcare providers.
- 9 Demonstrate emotional self-awareness and empathy to address patient's problems considering individualized care plans and assessments.
- 10 Educate patients to empower and motivate them to adopt health-promoting behaviors
- 11 Implement appropriate research tools, strategies, scientific evidence, and new information associated with the practice of pharmacy in different practice settings
- 12 Interpret various scientific literature, pharmaceutical calculations, and pharmaceutical care services in an ethical and professional manner.
- 13 Utilize information technology, artificial intelligence, human and physical resources to solve complex and unpredictable problems to provide patient-centered pharmaceutical care services, and optimize the medication use systems
- 14 Design different pharmaceuticals, including herbals and cosmetics considering latest standards and technology.

C. Competence

C1 Autonomy & Responsibility

- 15 Manage complex, unpredictable, unfamiliar and varying work procedures, adversities and problems in the workplace.
- 16 Work effectively as an individual in a team and perform professional collaborative activities by displaying effective self-management and leadership abilities

C2 Role in context

- 17 Function with full autonomy in a technical and supervisory context and display high self-confidence during professional practice and while working with others
- 18 Take accountability for professional development and mentoring of self, individuals, and groups with a commitment to excellence

C3 Self-Development

- 19 Exhibit innovative and entrepreneurial thinking in developing professional and career-related goals and objectives.
- 20 Manage learning tasks independently and professionally in complex and unfamiliar learning contexts and working environments

15.4 The Curriculum

The B.Pharm program is of 4 ½ year duration with one semester of clinical rotation.

In the 1st year (1st and 2nd semester) of the program, students will be taught general education courses such as English, Health Sciences Communication in English, Health Sciences Communications in Arabic, Islamic Culture & Medicine, Information Technology in Pharmacy, Emirates Society and Biomedical Courses such as Human Anatomy, Human Physiology and other Pharmacy related courses like Foundations of Pharmacy, General Chemistry for Pharmacy, Pharmaceutical Analysis-1, Pharmaceutical Organic Chemistry, and Pharmaceutical Calculations.

In the 2nd year (3rd and 4th semester) of the program, students will be exposed to courses like Pharmaceutical Microbiology, Pharmacology & Therapeutics-1&2, Pharmaceutical Analysis-2, Pharmaceutics - 1 & 2, Biochemistry & Clinical Chemistry, Introduction to Social Pharmacy, Introduction to Pharmacy Practice, Biostatistics & Research Methodology, Pharmacy Laws & Ethics, and Pharmacy Practice - 1.

In the 3rd year (5th and 6th semester) of the program, students will study Innovations & Entrepreneurship in Pharmacy, Herbal Pharmacotherapy, Pharmaceutical Biotechnology-1& 2 Pharmacology & Therapeutics - 3 & 4, Pharmacy Practice-2 & 3, Pharmacy Administration, Pharmaceutics-3, Medicinal Chemistry-1 & 2. Practical and hospital visits will make the learning need-oriented, task-based, and achieve specific learning outcomes.

In the 4th year (7th & 8th semester) of the program, students will be taught Pharmaceutics-4, Pharmaceutical Marketing & Management and Pharmacology & Therapeutics-5, Biopharmaceutics & Pharmacokinetics, Research Project, Pharmacovigilance, Drug Discovery & Development, Clinical Pharmacokinetics, Complementary & Alternative Medicine and students will undergo Practice School related training in Community Pharmacy and industry.

Most of the courses from the first year to the final year are supplemented with case studies to enhance the knowledge and skills.

In the 9th semester of the B. Pharm program, students will undergo clinical rotations in hospitals. This will expose the students to real-life situations and prepare them to face the different challenges in their profession.

15.5 Instructional Methods Based on the Learning Outcomes

RAK College of Pharmaceutical Sciences is committed to prepare students for future challenges and fulfill the different roles and responsibilities in society as a part of the healthcare team.

Faculty members are committed to making the learning environment more interactive, integrating technology into the learning experience, and using collaborative learning strategies wherever appropriate. In addition to didactic lectures, learning is facilitated through training in skills laboratories. Training is further advanced through clinical rotations in hospitals, primary health care centers, community pharmacies, and industrial visits.

15.6 Hospital Facilities for Clinical Teaching for Pharmacy Students

RAKMHSU uses the facilities of Sheikh Saqr hospital, Ibrahim Bin Hamad Obaidallah hospital, Fujairah hospital, Abdullah Bin Omran Hospital, RAK Hospital and Sheikh Khalifa specialty hospital in Ras Al Khaimah for teaching, training and research-related activities for the students. In addition, the university also utilizes various primary health centers available in Ras Al Khaimah under the ambit of RAK Medical District for teaching and training of undergraduate students. Each course and graded for 40% each for theory and practical separately of the total marks in the determination of the final grade.

Sheikh Saqr Hospital is a secondary care hospital with a bed capacity of 278 having surgical specialties like General Surgery, Urology, Neurosurgery, Orthopedic Surgery, Oto-Rhino-Laryngology, Ophthalmology, Obstetrics and Gynecology, and Pediatrics.

Ibrahim Bin Hamad Obaidallah Hospital is a secondary care hospital, and it is a medical specialty hospital with a separate geriatric specialty having a bed capacity of 330. The different medical specialties in this hospital are Internal Medicine, Neurology, Respiratory & Chest Medicine, Psychiatry, Nutrition, and Cardiology.

Fujairah Hospital is a tertiary care hospital under the Ministry of Health and Prevention UAE. The hospital has 320 beds and seven operation theaters. The specialties available are General Medicine with subspecialties of Gastroenterology, Neurology, Rheumatology, Nephrology, cardiology, and Psychiatry. General Surgery has subspecialties of vascular surgery, minimally invasive surgery, plastic surgery, pediatric and neurosurgery. The Obstetrics and Gynecology department has 100 beds. There are 40 beds in the Pediatric wing with pediatric ICU (PICU). The neonatal intensive care unit (NICU) has 22 beds with eight ventilators. Orthopedic, Dermatology, ENT, and Ophthalmology departments carry out diagnostic as well as operative work.

Abdullah Bin Omran Hospital, Ras Al Khaimah has Obstetrics & Gynecology, Neonatology, and Anesthesiology specialties and is available for MBBS students' teaching and clinical training beginning September 2018.

Additionally, the university has an MOU with RAK Hospital, a multispecialty hospital located in RAK, United Arab Emirates. The specialties available are general medicine, surgery, pediatrics, cardiology, gastroenterology, pulmonology, urology, neurology, gynecology, dermatology, psychiatry, etc. In addition, the other available facilities are minimal invasive surgery, bone health, eye care, maternal health, rehabilitation, neurological issues, and advanced cardiac care. Furthermore, the university utilizes RAK hospital on an ad hoc basis for training and research.

RAKMHSU also has an MOU with Sheikh Khalifa specialty hospital, a 246-bed capacity tertiary care hospital for inpatient care, and several outpatient clinics. It mainly focuses on three medical specialties, namely Oncology, Cardiovascular, and Neuroscience.

15.7 Assessment, Evaluation, Grading, and Promotion

Students will be assessed continuously through written tests, in-course assessments (ICA), team-based learning (TBL), self-directed learning (SDL), and end semester examinations. The continuous assessment components for each course will contribute to 60% of the marks and the comprehensive examination will contribute to the remaining 40% of the marks.

During the comprehensive examination, theory and, wherever applicable, laboratory and clinical examination will be held for each course and graded for 40% each for theory and practical separately of the total marks in determining the final grade.

15.7.1 Assessment

15.7.2 Theory

Theory	Practical
Continuous Assessment - 60 % - Written Test* / Presentation/ Seminar* - In-course Assessment - Team Based Learning (*TBL) - Self-Directed Learning (SDL)	Continuous Assessment - 60 % - Daily Assessment - Lab Report - In-course Assessment
Comprehensive Examination - 40 % MCQs 100%	Comprehensive Examination - 40 % Objective Structured Practical Examination (OSPE) / Objective Structured Clinical Examination (OSCE)

*The number of written tests and TBLs will be based on the type of courses

15.7.3 Examination Schedule (B. Pharm)

Semester	Courses	Time of Examinations
1	English	End of 1 st Semester
	Health Sciences Communication in Arabic	
	Foundations of Pharmacy	
	Human Anatomy	
	General Chemistry for Pharmacy	
	Information Technology for Pharmacy	
	Emirates Society	
2	Health Sciences Communication in English	End of 2 nd Semester
	Islamic Culture & Medicine	
	Pharmaceutical Analysis -1	
	Human Physiology	
	Pharmaceutical Organic Chemistry	
	Pharmaceutical Calculations	

3	Pharmaceutical Microbiology	End of 3 rd Semester
	Pharmacology & Therapeutics - 1	
	Introduction to Social Pharmacy	
	Pharmaceutics - 1	
	Biochemistry & Clinical Chemistry	
	Introduction to Pharmacy Practice	
4	Biostatistics & Research Methodology	End of 4 th Semester
	Pharmacology & Therapeutics - 2	
	Pharmaceutical Analysis -2	
	Pharmaceutics - 2	
	Pharmacy Laws & Ethics	
	Pharmacy Practice -1	
5	Innovations & Entrepreneurship in Pharmacy	End of 5 th Semester
	Herbal Pharmacotherapy	
	Pharmaceutical Biotechnology -1	
	Pharmacology & Therapeutics - 3	
	Pharmacy Practice - 2	
	Medicinal Chemistry -1	
6	Pharmaceutics - 3	End of 6 th Semester
	Pharmacy Administration	
	Pharmaceutical Biotechnology - 2	
	Pharmacology & Therapeutics - 4	
	Pharmacy Practice - 3	
	Medicinal Chemistry -2	
7	Pharmaceutics - 4	End of 7 th Semester
	Pharmaceutical Marketing & Management	
	Pharmacology & Therapeutics - 5	
	Minor Research Project	
	Biopharmaceutics & Pharmacokinetics	
8	Pharmacovigilance	End of 8 th Semester
	Drug Discovery & Development	
	Clinical Pharmacokinetics	
	Complementary & Alternative Medicine	
	Practice School - Community Pharmacy	
	Practice School - Industry	
9	Practice School - Hospital	End of 9 th Semester

15.8 Study Plan

Total Credits = 160

Course Code	Course Title	Credits	
		Theory	Practical
PEN -103	English	3	0
PAR -103	Health Sciences Communication in Arabic	3	0
PFP-102	Foundations of Pharmacy	2	0
PHA-103	Human Anatomy	2	1
PGC-103	General Chemistry for Pharmacy	2	1
PIT-102	Information Technology for Pharmacy	2	0
PES-102	Emirates Society	2	0
Total Credits		18	

Semester – 2			
Course Code	Course Title	Credits	
		Theory	Practical
PEN -203	Health Sciences Communication in English	3	0
PIC-203	Islamic Culture & Medicine	3	0
PPA-213	Pharmaceutical Analysis - I	2	1
PHP-204	Human Physiology	3	1
POC-203	Pharmaceutical Organic Chemistry	2	1
PPC-203	Pharmaceutical Calculations	2	1
Total Credits		19	

Semester – 3			
Course Code	Course Title	Credits	
		Theory	Practical
PMI-303	Pharmaceutical Microbiology	2	1
PPT-314	Pharmacology & Therapeutics - I	3	1
PSP-302	Introduction to Social Pharmacy	2	0
PPH-313	Pharmaceutics – I	2	1
PBC-303	Biochemistry & Clinical Chemistry	2	1
PPP-302	Introduction to Pharmacy Practice	2	0
Total Credits		17	

Semester – 4			
Course Code	Course Title	Credits	
		Theory	Practical
PBR-402	Biostatistics & Research Methodology	2	0
PPT-424	Pharmacology & Therapeutics - 2	3	1
PPA-423	Pharmaceutical Analysis -2	2	1
PPH-423	Pharmaceutics – 2	2	1
PLE-402	Pharmacy Laws & Ethics	2	0
PPP-413	Pharmacy Practice -1	2	1
Total Credits		17	

Semester – 5			
Course Code	Course Title	Credits	
		Theory	Practical
PIE-503	Innovations & Entrepreneurship in Pharmacy	3	0
PHP-502	Herbal Pharmacotherapy	2	0
PBT-513	Pharmaceutical Biotechnology -1	2	1
PPT-534	Pharmacology & Therapeutics - 3	3	1
PPP-523	Pharmacy Practice - 2	2	1
PMC-514	Medicinal Chemistry -1	3	1
Total Credits		19	

Semester – 6			
Course Code	Course Title	Credits	
		Theory	Practical
PPH-633	Pharmaceutics – 3	2	1
PAP-602	Pharmacy Administration	2	0
PBT-623	Pharmaceutical Biotechnology – 2	2	1
PPT-644	Pharmacology & Therapeutics – 4	3	1
PPP-633	Pharmacy Practice – 3	2	1
PMC-624	Medicinal Chemistry -2	3	1
Total Credits		19	

Semester – 7			
Course Code	Course Title	Credits	
		Theory	Practical
PPH-744	Pharmaceutics – 4	3	1
PMM-703	Pharmaceutical Marketing & Management	3	0
PPT-754	Pharmacology & Therapeutics – 5	3	1
PRP-704	Research Project	-	4
PBK-703	Biopharmaceutics & Pharmacokinetics	2	1
Total Credits		18	

Semester – 8			
Course Code	Title	Credits	
		Theory	Practical
PPV-802	Pharmacovigilance	2	0
PDD-802	Drug Discovery & Development	2	0
PCP-803	Clinical Pharmacokinetics	2	1
PCM-802	Complementary & Alternative Medicine	2	0
PSC-806	Practice School - Community Pharmacy	-	6
PSI-802	Practice School – Industry	-	2
Total Credits		17	

Practice School - Hospital

Semester – 9			
Course Code	Title	Credits	
		Theory	Practical
APSI – 914	Advanced Practice School – Internal Medicine	-	4
APSI - 924	Advanced Practice School – Internal Medicine Specialty	-	4
APSA - 934	Advanced Practice School – Ambulatory Care	-	4
APSH - 942	Advanced Practice School – Hospital Pharmacy and Drug Information	-	2
APSE – 952	Advanced Practice School – Electives	-	2
Total Credits		16	

15.9 Practice School (B Pharm)

Practice School (PS) is a phase of training wherein a graduate is expected to conduct the actual practice of pharmacy and health care and acquire skills under supervision, so that they will become capable of functioning independently.

- All parts of the practice school (PS) shall be done in approved teaching hospitals, Primary Health care centers (PHCs), Community pharmacies and the pharmaceutical industry.
- Every candidate will be required to undergo compulsory rotational PS to the satisfaction of the University regulation in 8th and 9th semester to get the Practice School Completion Certificate from the Office of the Dean.
- Students will come back to the university after the rotation in hospital / community / Industry for review & reporting to the faculty
- The Practice School student shall be entrusted with the responsibilities under the direct supervision of a senior pharmacist/consultant. They shall not be working independently.

15.10 Practice School Advisory Board (PSAB)

The Practice School Advisory Board consists of seventeen members including President & Chief Academic Officer (CAO) as special invitees.

The Practice School Advisory Board will meet twice in a year to conduct its deliberations

Responsibilities

1. Advise the college with reference to its vision, mission, goals & objectives of Pharmacy Programs.
2. Oversee the college academic, industrial, hospital & community training, research & other outreach projects
3. Assist to get collaborative projects & arrangements with external agencies, especially hospitals, community pharmacies & pharmaceutical industries.
4. Advise on fund raising, research projects & institution of chairs in the college with assistance of industries & other bodies
5. To help the College to collect the feedback about the performance of the students in the work place, especially hospitals, industries, community & regulatory sites.
6. Identify new areas of research / projects with the help of members & others to make need based. relevant and effective projects.
7. Share graduate projects (completed) of previous year & seek advice for improvement & relevance of projects.
8. Suggest the college about the new & need based, short term programs & certificate courses to be offered in the future.
9. Advise the college about community engagement, inter-professional & scholarly activities.

15.10.1 Committee Members

1	Dr. S.Gurumadhva Rao	President (Special invitee)
2	Dr. Laxminarayana Kurady Bairy	Acting CAO (Special invitee)
3	Dr. Padma GM Rao	Dean (Chair)
4	Dr. KVR N S Ramesh	Associate Dean (Member Secretary)
5	Dr. Abeer Hassan Mohammed Kassem	Consultant Pulmonology, Ibrahim Bin Hamad Obaidallah Hospital, Ras Al Khaimah, UAE
6	Dr. Talaat Matar Tadross	Professor, Psychiatry, RAKCOMS
7	Dr. Martin Thomas Kurian	Associate Dean & Professor - Clinical Teaching & Coordination
8	Dr. Mouza Salem Rashed	Head of Pharmacy Department, Saqr Hospital, Ras Al Khaimah
9	Dr. Khawla Mohammed Abdulla AlSharhan	Inspector, Ministry of Health, Ras Al Khaimah
10	Mrs. Rubina Rafiq Ejaz	Training Head, Julphar Training Center (JTC)
11	Dr. Raghavendra Rao	Vice President, Himalaya Drug Company, Dubai
12	Mr. Anjan Das	Factory Head, Dabur Naturelle LLC Ras Al Khaimah, UAE.
13	Dr. Bhoomendra Bhongade	Professor & Chairperson - Pharmaceutical Chemistry, RAKCOPS
14	Dr. Sathvik B. Sridhar	Professor & Chairperson - Clinical Pharmacy & Pharmacology, RAKCOPS
15	Dr. Shahnaz Usman	Professor, Pharmaceutics Dept., RAKCOPS
16	Dr. Areeg Anwer Ali	Professor, Clinical Pharmacy & Pharmacology, RAKCOPS
17	Dr. Abeer Alhammadi	RAK PHC Pharmacist Incharge, Ras Al Khaimah

15.10.2 Practice School (PS) Objectives:

At the end of the Practice School Training, the student will be able to have the necessary knowledge and skills in the areas of Hospital, Community Pharmacy and Industry.

15.10.3 Hospital

Advanced Practice School – Internal Medicine

A	At the end of the rotation, the students will be able to: Knowledge
1.	Exhibit the knowledge of appropriate drug therapy, etiology, and pathophysiology of common disease conditions encountered in patients admitted to internal medicine department.
2.	Demonstrate the understanding of various disease conditions and make timely decisions regarding treatment plans in in patients admitted to internal medicine department.
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment patients admitted to internal medicine department.
4.	Display the knowledge of drug-related problems and patient education points and provision of pharmaceutical care services to general medicine patients.
B	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in internal medicine settings.
6.	Formulate implementation of pharmaceutical care plans with documentations for patients admitted to internal medicine department in an ethical and professional manner.
7.	Manage clinically significant adverse drug reactions and drug interactions in internal medicine settings.
C	Competence
C1	Autonomy & Responsibility
8.	Work effectively with others in internal medicine setting as a member or leader of an inter-disciplinary health care team or other professional groups
C2	Role in context
9.	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to patients admitted to internal medicine department from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self development
10.	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in patients admitted to internal medicine department.

Advanced Practice School – Internal Medicine Specialty

S. No.	Learning Outcomes
A.	At the end of the rotation, the students will be able to:
Knowledge	
1.	Exhibit the knowledge of appropriate drug therapy, etiology and pathophysiology of common disease conditions encountered in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics.
2.	Demonstrate the understanding of various disease conditions and make timely decisions regarding treatment plans with physicians in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics.
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics.
4.	Display the knowledge of drug-related problems and patient education points and provision of pharmaceutical care services to the patients with different health conditions in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics.
B.	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics.
6.	Formulate implementation of pharmaceutical care plans with documentations in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics in an ethical and professional manner.
7.	Manage clinically significant adverse drug reactions and drug interactions in internal medicine specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics.
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others in internal medicine specialty setting as a member or leader of an inter-disciplinary health care team or other professional groups
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to patients admitted to internal medicine specialties from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self-Development
10	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in patients admitted to internal medicine specialties.

Advanced Practice School – Ambulatory Care

S. No.	Learning Outcomes
A.	At the end of the rotation, the students will be able to: Knowledge
1.	Exhibit the knowledge of appropriate drug therapy, etiology, the pathophysiology of common disease conditions encountered in ambulatory care setting.
2.	Demonstrate the understanding of various disease conditions and make timely decisions regarding treatment plans with physicians in ambulatory care setting.
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment of patients in ambulatory care setting.
4.	Display the knowledge of drug-related problems and patient education points and provision of pharmaceutical care services to the patients with different health conditions in ambulatory care setting.
B.	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in ambulatory care setting.
6.	Formulate implementation of pharmaceutical care plans with documentations in ambulatory care setting in an ethical and professional manner.
7.	Manage clinically significant adverse drug reactions and drug interactions in ambulatory care setting.
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others in ambulatory care setting as a member or leader of an interdisciplinary health care team or other professional groups.
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to ambulatory care patients from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self-Development
10	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in ambulatory care patients.

Advanced Practice School – Hospital Pharmacy and Drug Information

S. No.	Learning Outcomes
A.	At the end of the rotation, the students will be able to: Knowledge
1.	Explain the organizational structure of hospital pharmacy
2.	Comprehend the different roles and responsibilities of a hospital pharmacist
3.	Describe the different inpatient and outpatient hospital pharmacy services provided by pharmacist
4.	Discuss the standards of practice for drug information services
B.	Skills
5.	Use electronic medical records and medication administration records to analyze patient information and resolve drug related problems
6.	Perform various hospital based pharmaceutical care services like optimizing medication regimens, patient education and counselling, medication review, adverse drug reaction and drug interaction monitoring in an ethical and professional manner.
7.	Develop a systematic approach for answering drug information queries
C.	Competence
C1	Autonomy and Responsibility
8	Execute activities within a typical hospital drug distribution system with other members, including order receipt, evaluation and review and describe the appropriate roles of assistant pharmacists and pharmacists in these processes.
C2	Role in Context
9	Comply with local, national and relevant international regulations, guidelines, moral and ethical codes governing the practice of hospital pharmacy and drug information services.
C3	Self-Development
10	Take initiatives for self-development by effective verbal interactions and written communications with staff, patients and other health care team members in the practice area

Advanced Practice School – Electives

APSH 952 -1 Geriatric Medicine

S. No.	Learning Outcomes
	At the end of the rotation, the students will be able to:
A.	Knowledge
1.	Apply the knowledge of appropriate drug therapy, etiology, the pathophysiology of common geriatric disease conditions
2.	Demonstrate the understanding of various disease conditions and make timely decisions regarding treatment plans in geriatric patients.
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment in geriatric patients.
4.	Exhibit the knowledge of drug-related problems and patient education points and provide pharmaceutical care services to geriatric patients.
B.	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in geriatric setting.
6.	Formulate implementation of pharmaceutical care plans with documentations in geriatric patients in an ethical and professional manner.
7.	Manage clinically significant adverse drug reactions and drug interactions in geriatric patients.
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others in geriatric medicine setting as a member or leader of an interdisciplinary health care team or other professional groups.
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to geriatric patients from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self-Development
10	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in geriatric patients.

APSH 952 -2 Obstetrics and Gynecology

S. No.	Learning Outcomes
A.	At the end of the rotation, the students will be able to: Knowledge
1.	Exhibit the knowledge of appropriate drug therapy, etiology, the pathophysiology of common diseases of female reproductive system as well as of pre and post-natal conditions.
2.	Demonstrate the understanding of various disease conditions and make timely decisions regarding treatment plans in female patients with reproductive system diseases and during pre and post-natal conditions.
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment in female patients with reproductive system diseases as well as pre and post-natal conditions.
4.	Display the knowledge of drug-related problems and patient education points and provide pharmaceutical care services to female patients with reproductive system diseases as well as in pre and post-natal conditions.
B.	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in obstetrics and gynecology setting.
6.	Formulate implementation of pharmaceutical care plans with documentations in female patients with reproductive system diseases as well as in pre and post-natal conditions in an ethical and professional manner.
7.	Manage clinically significant adverse drug reactions and drug interactions in female patients with reproductive system diseases.
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others in obstetrics and gynecology setting as a member or leader of an inter-disciplinary health care team or other professional groups
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to female patients with reproductive system diseases as well as in pre and post-natal conditions from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self-Development
10	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in female patients with reproductive system diseases as well as in pre and post-natal conditions.

APSH 952 -3 Ophthalmology

S. No.	Learning Outcomes
A.	At the end of the rotation, the students will be able to: Knowledge
1.	Exhibit the knowledge of appropriate drug therapy, etiology, and pathophysiology of common eye diseases.
2.	Demonstrate the understanding of various disease conditions and make timely decisions regarding treatment plans in patients with various eye diseases.
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment in patients with eye diseases.
4.	Display the knowledge of drug-related problems and patient education points and provide pharmaceutical care services to patients with eye diseases.
B.	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in ophthalmology setting.
6.	Formulate implementation of pharmaceutical care plans with documentations in patients with eye diseases in an ethical and professional manner.
7.	Manage clinically significant adverse drug reactions and drug interactions in patients with eye diseases.
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others in ophthalmology setting as a member or leader of an interdisciplinary health care team or other professional groups
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to patients with eye diseases from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self-Development
10	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in patients with eye diseases.

APSH 952 -4 Surgery

Learning Outcomes

S. No.	Learning Outcomes
A.	At the end of the rotation, the students will be able to: Knowledge
1.	Exhibit the knowledge of appropriate drug therapy, etiology, and pathophysiology of common conditions requiring surgical intervention.
2.	Demonstrate the understanding of the medications involved with a surgery related pharmaceutical care service with emphasis on antibiotic therapy, nutritional support, and pain management
3.	Relate the comprehensive knowledge of clinical guidelines, rational drug use, and evidence-based medicine for improving treatment in patients requiring surgical intervention.
4.	Display the knowledge of drug-related problems and patient education points and provide pharmaceutical care services to surgery patients
B.	Skills
5.	Develop pharmaceutical care plan for the treatment of various diseases in ENT setting.
6.	Calculate doses for medications used in patients requiring surgical intervention with emphasis on antibiotics and pain relievers.
7.	Manage clinically significant adverse drug reactions and drug interactions in patients admitted in surgical wards.
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others in surgery setting as a member or leader of an inter-disciplinary health care team or other professional groups
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing empathetic and patient-focused care to surgery patients from various socio-economic and cultural backgrounds individually and collaboratively with other healthcare team members.
C3	Self-Development
10	Solve medication or treatment-related problems independently and develop appropriate pharmaceutical care plans through evidence-based decisions in patients requiring surgical intervention.

APSH 952 -5 Nutrition

Learning Outcomes

S. No.	Learning Outcomes
	At the end of the rotation, the students will be able to:
A.	Knowledge
1.	Explain the major mechanisms of different food-drug interactions
2.	Describe the components of parenteral nutrition and their role in nutrition support therapy
3.	Understand the nutrition requirements for different patients with various diseases conditions
4.	Discuss the importance of enteral and parenteral nutrition in management of various disease conditions.
B.	Skills
5.	Calculate the nutrition requirements for the patients with the various diseases and clinical conditions
6.	Manage clinically significant food-drug interactions and related pharmaceutical care issues in an ethical and professional manner.
7.	Make recommendations to prevent undesirable food-drug interactions
C.	Competence
C1	Autonomy and Responsibility
8	Work effectively with others as a member or leader of an inter-disciplinary health care team or other professional groups
C2	Role in Context
9	Recognize the role of clinical pharmacists in providing nutrition support to patients with various disease conditions
C3	Self-Development
10	Solve nutrition-related requirements and problems independently and develop appropriate care plans through evidence-based decisions in nutrition setting

15.10.4 Community Pharmacy

S.No	Learning Outcomes
A.	At the end of the rotation, the students will be able to
	Knowledge
1	Differentiate the procedure for dispensing Over The Counter (OTC) medications, Pharmacist only Medications (PhOM), and Prescription only Medications (POM)
2	Describe the process of patient counseling for common ailments, their management and different systems for the storage, dispensing, inventory control, accounting, and bookkeeping of medications
3	Demonstrate familiarity with different health screening services, domiciliary and medication therapy management services provided in pharmacies
B.	Skills
4	Exhibit professional dispensing and counseling skills while interacting with patients
5	Resolve different drug-related problems in prescriptions
6	Compare generics versus brands with respect to OTC medications, available strengths, dosing information, adverse drug reactions, and DDIs
7	Apply the knowledge in ordering, purchasing and storage of controlled, semi-controlled and other medications in pharmacy
C.	Competence
C1	Autonomy and responsibility
8	Appraise the ethical laws, policies, and procedures for dispensing OTC medications, prescription-only medications, pharmacist only medications, and controlled substances as per MOH guidelines
C2	Role in context
9	Work effectively with the others in the community pharmacy setting as a member or leader and exhibit excellent personal, interpersonal, and teamwork skills
C3	Self-development
10	Solve medication-related problems to make appropriate pharmaceutical recommendations in a community pharmacy setting

15.10.5 Industry

S. No.	Learning Outcomes			
	At the end of the training/ rotation, the students will be able to:			
A.	Knowledge			
1.	Explain the cGMP procedures followed by the pharmaceutical industries.			
2.	Illustrate the operation of machinery used for manufacturing of formulations			
3.	Illustrate the working of different equipment used for the analysis of raw materials, in process and finished products.			
B.	Skills			
4.	Demonstrate manufacturing of conventional drug delivery systems like semi solids and capsules			
5.	Carry out quality control tests for solid and liquid oral preparations			
6.	Formulate injections and carry out quality control tests on prepared injections			
C.	Competence			
C1	Autonomy and Responsibility			
7.	Demonstrate ability to independently solve problem / conflict during manufacture and develop strategies for optimal use of production facilities and improve quality of dosage forms.			
C2	Role in Context			
8.	Manage the complex and varied professional practices in industry			
9.	Function as a team leader for optimal performance of different fields of industrial activities			
C3	Self-Development			
10.	Upgrade professional knowledge and implement scientific and technical principles in making decisions related to product manufacture			

Practice School shall be completed by the students as per the following pattern and training time distribution.

S.No.	Description	No. of Weeks	Credits
1	Hospital rotation : The training includes rotation in the various departments such as Internal Medicine, Nephrology, Neurology, cardiology, geriatrics, Psychiatry and Nutrition	16	16
2	Community Pharmacy : It includes training in Dispensing, storage, accounting, book keeping and patient counseling in Primary Health care Centers and private community pharmacies	6	6
3	Industry : Manufacturing of dosage forms, packaging, distribution Analysis and Quality control	2	2

15.10.6 Training in Hospitals

The practice School - hospital is a sixteen credit training offered in the ninth semester of the B.Pharm program. The goal of this hospital rotation is to prepare the students regarding pharmacotherapy, clinical and hospital pharmacy services. In the process, students will acquire knowledge and skills related to patient counseling, drug information services, identification of drug-drug interaction, monitoring and reporting of ADRs and other drug related problems as a part of pharmaceutical care services. All parts of the practice school rotation will be done in approved MOHP teaching hospitals. The training also includes exposure to drug purchase, storage, drug distribution and record keeping in a hospital pharmacy set-up.

This training will be offered in defined time blocks and the student will receive an intensive training by rotating at different specialties such as cardiology, internal medicine, nephrology, neurology, psychiatry, geriatrics, nutrition, hospital pharmacy, etc. It also includes discussion/reflection sessions at the site of training and/or college. The students will gain practice experience providing care to a diverse patient population in inpatient and outpatient settings. The student will complete a checklist of exercises and reflection paper to assure a satisfactory breadth of experience, exposure to necessary components and activities in a hospital set-up.

15.10.7 Training in Community Pharmacy

Practice School - Community Pharmacy is a six credit training course offered in the eighth semester of the B. Pharm program. The goal of this community pharmacy training is to train the students in the provision of pharmaceutical care in a community pharmacy /primary health care setting, which is done under the guidance of an experienced preceptor. The rotation prepares the students to dispense, counsel and identify, resolve and prevent drug-related problems commonly encountered in a community pharmacy set-up. The training program integrates science with practice and prepares the students to become competent pharmacy practitioners.

This training will be offered in defined time blocks and the student will receive an intensive training by participating on the site and in the discussion/reflection sessions at the site of training and/or college. The student will complete a checklist of exercises and reflection paper to assure a satisfactory breadth of experience, exposure to necessary components and activities in private pharmacy setting and primary health care centers (PHCs).

15.10.8 Training in Pharmaceutical industries

Practice school (Industry) is a two credit course of industrial training offered in the eighth semester of the B. Pharm program. The goal of the industry rotation is to train the students to learn the skills about manufacturing of various dosage forms such as, tablets, capsules and injections) to understand the operation of different types of equipment employed and the unit operations carried out in the pharmaceutical industry. They also will be taught about the scale up processes from pilot plant to production scale of manufacture, the analytical and quality control procedures employed in stability testing and for the assay of the various products. This rotation also helps them to learn about the current Good Manufacturing Practices adopted to prepare quality pharmaceutical products and the different regulatory guidelines that govern the drug manufacture in an industrial set up. They will have a good exposure in documenting different processes related to validation and quality assurance.

All parts of the practice school rotation will be done in approved pharmaceutical industries. Practice school training will be delivered as per the training schedule provided by the industry and the student will receive an intensive training by rotating at different units of the industry such as raw materials, production, quality control, R & D and regulatory affairs departments. It also includes discussion/reflective sessions at the site of training and/or college. The students will gain practical experience in industrial operations. The students are assessed periodically during training and at the end by written tests, reports and seminars.

15.10.9 Assessment

The student shall submit a comprehensive report of their experience and skills learnt duly evaluated in the format below and certified by supervisor concerned. The student shall maintain a record of work which is to be verified and certified by the officer/consultant under whom they work. Apart from the scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective assessment of knowledge, skills and competence, during and at the end of training using appropriate evaluation forms. Based on the record of work and date of evaluation, the Dean shall issue a certificate of satisfactory completion of training, following which the University shall award the B.Pharm degree or declare the student eligible for it.

Satisfactory completion shall be determined on the basis of the following:-

Sl.No.	Description	Weightage
1.	Log Book / Report / Manual - Daily Diary & PS Report	25%
2.	Continuous Evaluation / Check list - Preceptor	25%
3.	Seminar / Case presentation / Check list - Faculty	25%
4.	Quiz / Evaluation / Check list - Preceptor	25%

- PS Scale be reduced to 4 point scale as done for courses grade point scale
- PS grade point will be included in overall GPA / CGPA calculation

15.11 Description of Courses

Semester 1

Course Name: English

Course Code : PEN 103
Semester : 1
No. of Credits : 3 (Theory 3+Practical 0)
Course Prerequisites : None

Course Summary

The English Course is a three-credit course offered in the first semester of the first-year B.Pharm program. This course covers the basic skills of the English language that are required at the undergraduate level of studies in health sciences. The course teaches health sciences, students to develop writing skills to generate and express their ideas clearly, correctly, and effectively. It covers college-level writing standards, reading for comprehension purposes, prewriting techniques, and the organization of material. Students will be able to write fluent and logical compositions from small paragraphs to multi-paragraph essays for various purposes in the health sciences context.

Moreover, the course teaches the students to express themselves in speech. It also familiarizes them with basic medical/ pharmaceutical terminology. Faculty will facilitate learning through interactive lecture sessions, group discussions, and self-directed learning.

Course Name : Health Sciences Communication in Arabic

Course Code : PAR 103
Semester : 1
No. of Credits : 3 (Theory 3+Practical 0)
Course Prerequisites : None

Course Summary

Health Sciences Communication in Arabic is a three-credit course offered in the first semester of the B.Pharm program. The goal of the course is to provide the students with the basic knowledge and skills of communication in the Arabic language with patients and healthcare staff. The course also focuses on reading and listening for understanding to prepare them for real-life situations. The course gives priority to pronunciation and correct articulation while speaking in Arabic. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, and practice.

Course Name: Foundations of Pharmacy

Course Code : PFP 102
Semester : 1
No. of Credits : 2 (Theory 2+Practical 0)
Course Prerequisites : None

Course Summary

Foundations of Pharmacy is a two-credit course offered in the first semester of the B. Pharm program. The goal of this course is to provide the students an overview of the history and development of pharmacy as an independent profession in different settings such as hospital, community, clinical and industry, and the role of the pharmacist in health care. The course also includes how drugs are discovered and role of pharmacist in dispensing and management of medicines.

They will also learn about the process of communication with other health care professionals and patients and various career opportunities in the pharmacy profession. The course also emphasizes on the importance of herbal medicines and the general packaging and labeling of pharmaceutical products. The course also includes visits to the hospital, primary health care centers, community pharmacies and pharmaceutical industry to provide early exposure to students. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and team-based learning.

Course Name	: Human Anatomy
Course Code	: PHA 103
Semester	: 1
No. of Credits	: 3 (Theory 2 + Practical 1)
Course Prerequisites	: None

Course Summary

Human Anatomy is a three-credit course offered in the first semester of the B. Pharm program. The main goal of this course is to provide fundamental knowledge on the anatomy of the musculoskeletal, digestive, cardiovascular, respiratory, reproductive, endocrine, and nervous systems of the human body, imparted from organ level during normal and abnormal body process. Students can apply this knowledge to understand the structural basis of diseases, symptoms, and treatment. Further, this becomes a base to understand subsequent part of pharmacology and pharmacotherapeutics courses framed for the subsequent years of the program. Learning is facilitated through interactive lecture sessions, practicals based on the theory components, self-directed learning, small group sessions, case-based learning, team-based learning etc.

Course Name	: General Chemistry for Pharmacy
Course Code	: PGC 103
Semester	: 1
No. of Credits	: 4 (Theory 3 + Practical 1)
Course Prerequisites	: None

Course Summary

General Chemistry for Pharmacy is a three-credit course offered in the first semester of the B.Pharm program. The goal of the course is to provide the students with the basic knowledge and skills of physical and inorganic chemistry. The course includes the basic principles, concepts, and terminology of chemistry that are essential to understand the biological and medicinal phenomena. It covers basic physical, inorganic and organic chemistry as a foundation for core pharmaceutical chemistry courses. The course involves study of periodic table, atomic structures, chemical bonds, chemical reactions, acids bases and nomenclature, properties of inorganic and organic compounds. Learning is facilitated through interactive lecture sessions, group discussions, case-based learning, self-directed learning, team based learning, audio/visual aids and practicals.

Course Name	: Information Technology for Pharmacy
Course Code	: PIT 102
Semester	: 1
No. of Credits	: 2 (Theory 2+Practical 0)
Course Prerequisites	: None

Course Summary

Information Technology for Pharmacy is a two-credit course offered in the first semester of the first year B.Pharm program. The goal of the course focuses on identifying the components of the information system, namely, the working of information systems storage, processes and displays of data, use of input/output devices, effective use of networks, Internet, and other communication tools. As well as the ethical use of computers in healthcare and society, and an introduction to artificial intelligence, the Internet of things, 5G, and Augmented reality. It also directs them to apply their knowledge to solve problems related to health sciences through the effective utilization of information technology. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and demonstrations.

Course Name : Emirates Society
Course Code : PES 202
Semester : 2
No. of Credits : 2 (Theory 2+Practical 0)
Course Prerequisites : None

Course Summary

Emirates Society is a two credit course offered in first semester of the first year B.Pharm program. The course seeks to consolidate national belonging and identity and appreciate national achievements of the United Arab Emirates. The course focuses on introducing students to the main social features of the Emirati community and its core values and heritage and the history and geography of the country. It discusses the internal and foreign policy, social development and services provided by the State, including the empowerment of women and their role in society.

The course also aims to shed light on UAE's role in building a knowledgeable Emirati society, encouraging multiculturalism, developing solid economic and technological infrastructure, and positioning UAE at a globally competitive level. The course also includes the future visions and challenges towards developing strategic plans as it will discuss Federal Government Vision and Abu Dhabi's Vision 2030 and the different issues related to future development plans and the expected challenges. Learning is facilitated through interactive lecture sessions, group discussions, and self-directed learning.

Semester 2

Course Name : Health Sciences Communication in English
Course Code : PEN 203
Semester : 2
No. of Credits : 3 (Theory 3+Practical 0)
Course Prerequisites : English (PEN 103)

Course Summary

The Health Sciences Communication in English course is a three-credit course offered in the second semester of the first year B. Pharm program. The primary goal of this course is to provide students with the essential skills and competencies needed for professionals in health care. The course aims to train students to communicate with clarity, sensitivity, and effectiveness in their interaction as pharmacists to communicate with patients and their families. The course focuses on Empathy and Active Listening Skills while interacting with patients, their families, and their own colleagues to achieve desired patient outcomes. It also focuses on Public Speaking skills, including conference presentations. Faculty will facilitate Learning through interactive lecture sessions, group discussions, self-directed learning and Team Based learning.

Course Name : Islamic Culture & Medicine
Course Code : PIC 203
Semester : 2
No. of Credits : 3 (Theory 3+Practical 0)
Course Prerequisites : None

Course Summary

Islamic Culture and Medicine is a three-credit course offered in the second semester of first-year B.Pharm program. The goal of the course is to discuss the current medical and scientific issues from the Islamic perspective. It focuses on developing an understanding and appreciation of Islamic contribution to medicine in particular and science in general. The course aims at engaging in students' awareness about Islamic codes related to health and medicine. Learning is facilitated through interactive lecture sessions, group discussions and self-directed learning.

Course Name	: Pharmaceutical Analysis -1
Course Code	: PPA 213
Semester	: 1
No. of Credits	: 3 (Theory 2 + Practical 1)
Course Prerequisites	: General Chemistry for Pharmacy (PGC-103)

Course Summary

Pharmaceutical Analysis -1 is a three-credit course offered in the second semester of the B.Pharm program. The goal of this course is to provide the students with the basic knowledge and skills required for the identification and analysis of drugs and pharmaceuticals. The course includes an outline of the pharmaceutical impurities, pharmacopoeial standards, and the significance of errors in analysis. The course is aimed to illuminate the theory and applications of titrimetric methods, gravimetry, automation of wet chemical methods, Kjeldahl analysis, Karl Fisher titration, and electrochemical methods of analysis. Learning is facilitated through interactive lecture sessions, videos, group discussions, case-based learning, self-directed learning, team-based learning, and practicals.

Course Name	: Human Physiology
Course Code	: PGC 103
Semester	: 1
No. of Credits	: 4 (Theory 3+Practical 1)
Course Prerequisites	: Human Anatomy (PHA -103)

Course Summary

Human Physiology is a four-credit course offered in the second semester of the first year B.Pharm program. The course covers all major aspects of Human Physiology, including cellular structure and function, blood, digestive, cardiovascular, respiratory, urinary, endocrine, reproductive, and nervous systems of the human body. The course provides a system-based approach to the body's normal physiological processes that maintain homeostasis. Students can apply this knowledge to understand the physiological adaptations to special conditions and explain the physiological basis of medical practice, including the effects of certain drugs and the fundamentals of treatment. The course is facilitated through interactive lecture sessions, Team based learning, self-directed learning, small group discussion, practical sessions and course examinations.

Course Name	: Pharmaceutical Organic Chemistry
Course Code	: POC 203
Semester	: 2
No. of Credits	: 3 (Theory 2+Practical 1)
Course Prerequisites	: General Chemistry for Pharmacy (PGC -103)

Course Summary

Pharmaceutical Organic Chemistry is a three-credit course offered in the second semester of the B.Pharm program. The goal of the course is to educate the students with fundamental knowledge of various organic functional groups, with a focus on the biological significance of these functional groups/nuclei in the structural/molecular formulae of drug molecules. The course also includes study of various physical and chemical properties, chemical reactions, methods of preparation, selected reaction mechanisms of organic compounds and their medicinal and pharmaceutical applications. The course also covers the stereo-chemical features of organic compounds, emphasizing their impact on drug activities.

Practical experiments are designed to develop skills required to synthesize, purify, and identify active pharmaceutical ingredient organic compounds. Learning will be facilitated through interactive lecture sessions, group discussion, self-directed learning, case-based learning, team-based learning, audio/visual aids and practicals.

Course Name : Pharmaceutical Calculations**Course Code : PPC 203****Semester : 2****No. of Credits : 3 (Theory 2 + Practical 1)****Course Prerequisites : None****Course Summary**

Pharmaceutical Calculations is a three-credit course offered in the second semester of B.Pharm program. The goal of this course is to teach pharmacy students to develop the skills necessary to perform precise calculations when dealing with medications. Students will be trained to make calculations involving ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates of intravenous solutions. This course emphasizes the calculations required to fill prescriptions and prepare pharmaceutical products in a hospital accurately and industrial setting.

The students will also be taught calculations involving mole fraction, theoretical yield calculations in synthesis, chemical quantities, empirical formula and calculations in analysis of compounds. Learning is facilitated through interactive lecture and practical sessions, self-directed learning, small group sessions, team based learning, case studies, and practical sessions.

Semester 3:**Course Name : Pharmaceutical Microbiology****Course Code : PMI 303****Semester : 3****No. of Credits : 3 (Theory 2+Practical 1)****Course Prerequisites : None****Course Summary**

Pharmaceutical Microbiology is a three-credit course offered in the third semester of B.Pharm program. The goal of this course is to make students become familiar with the microbiological aspects related to the practice of pharmacy profession. The students are introduced to morphological and cultural aspects of the bacterial and fungal species that are of importance in pharmacy and medicine. The course covers their structure, isolation, characterization cultivation and identification. The course also deals with sterilization, disinfection and infection control techniques. The basic and applied aspects of immunology are taught. Learning is facilitated through interactive lecture sessions, practicals, group discussions, case studies, self-directed learning and team based learning.

Course Name : Pharmacology & Therapeutics-1**Course Code : PPT 314****Semester : 3****No. of Credits : 4 (Theory 3+Practical 1)****Course Prerequisites : Human Anatomy (PHA -103) Human Physiology (PHP -204)****Course Summary**

Pharmacology & Therapeutics-1 is a four-credit course offered in the third semester of the B.Pharm program. The goal of this course is to focus on general aspects of pharmacology such as cell injury & adaptation, inflammation and repair, hypersensitivity and autoimmunity and drugs acting on the autonomic nervous system. They also will learn about the various aspects of therapeutics such as general prescribing guidelines in special populations, nutrition support, vaccines, drug allergies and disorders of hemostasis and coagulation. Learning is facilitated through interactive lecture sessions, case based learning, group discussions, self-directed learning and team based learning.

Course Name : Introduction to Social Pharmacy**Course Code : PSP - 302****Semester : 3****No. of Credits : 2 (Theory 2 + Practical 0)****Course Prerequisites : Foundations of Pharmacy (PFP-102) / Emirates Society (PES-102)****Course Summary**

Introduction to the Social Pharmacy is a two-credit course offered in the third semester of the B.Pharm program. The goal of this course is to emphasize the responsibility of the pharmacy profession related to drug matters in the local population. The course highlights the social factors that influence drug use and allows the students to understand the active role of the pharmacist in health care and health promotion. It helps students understand the patient's attitudes and beliefs and play an active role in providing the best health care services. The course also helps students to understand the UAE healthcare system, social & behavioral factors governing health, social inequalities in health. In addition, it covers how social and behavioral sciences are applied to resolve problems in the pharmacy profession. Learning is facilitated through interactive lecture sessions, written test, small group discussions, self-directed learning, and team-based learning.

Course Name: Pharmaceutics – 1**Course Code : PPH 312****Semester : 3****No. of Credits : 3 (Theory 2 + Practical 1)****Course Prerequisites : Foundations of Pharmacy (PFE – 102)/ Pharmaceutical Calculations (PPC-203)****Course Summary**

Pharmaceutics-1 is a three-credit course offered in the third semester of B. Pharm program. The goal of this course is to train the students in the preparation and dispensing of dosage forms based on sound scientific principles. The course deals with the fundamental physicochemical principles of dosage form design. Students are taught on areas like the different states of matter and their physical properties and influence on the solubility, dissolution and distribution of drugs. The course will also focus on the basic design and formulation of different liquid and powder dosage forms based on the principles of physical properties and compatibility of different excipients.

Different aspects of dispensing of dosage forms preparation are also covered. The course is designed to educate students about the theoretical aspects involved in the formulation of solutions, powders and granules. Lectures and practical sessions will help to understand the use and importance of different excipients in the formulation of different liquid and powder dosage forms. Learning is facilitated through interactive lecture sessions, practicals group discussions, self-directed learning, case studies and team based learning.

Course Name: Biochemistry & Clinical Chemistry

Course Code	: PBC 303
Semester	: 3
No. of Credits	: 3 (Theory 2+Practical 1)
Prerequisite	: Human Anatomy (PHA-103) / Human physiology (PHP-204)

Course Summary

Biochemistry and Clinical Chemistry is a three credit course offered in the third semester of the second year. The biochemistry part of the course deals with complete understanding of the molecular level of the chemical process associated with living cells, while clinical chemistry deals with the study of biochemical aspects of human life in health and illness and also about the application of biochemical methods of diagnosis of various abnormalities and principles behind such tests.

The course goal is to provide fundamental knowledge of the biochemical bases of normal and abnormal conditions at cellular level. The course topics are so coordinated to reinforce the topics that students studied in anatomy and physiology and help understand the mechanism of action of drug substances at a cellular level studied in pharmacology and medicinal chemistry. Learning is facilitated through interactive lecture and practical sessions, group discussions, self-directed learning, team based and case based learning.

Course Name: Introduction to Pharmacy Practice

Course Code	: PPP 302
Semester	: 3
No. of Credits	: 2 (Theory 2 + Practical 0)
Prerequisite	: Foundations of Pharmacy (PFP 102)

Course Summary

Introduction to pharmacy practice is a two credit course offered in the third semester of B.Pharm program. The goal of this course is to provide the students with the fundamental knowledge of core pharmacy practice areas such as hospital, community and clinical pharmacy. The students will be taught about the different roles and responsibilities of the hospital, community, and clinical pharmacist. The course also focuses on various components of hospital pharmacy, community pharmacy management, and basic clinical pharmacy activities required to be a competent pharmacist. The teaching and learning are also supported by the hospital and community pharmacy visit and submission of a report. Learning is facilitated through interactive lecture sessions, group discussions, role-play, self-directed learning and team-based learning.

Semester 4

Course Name: Biostatistics & Research Methodology

Course Code : PBR 402
Semester : 4
No. of Credits : 2 (Theory 2 + Practical 0)
Course Prerequisites : None

Course Summary

Biostatistics and Research Methodology is a two-credit course offered in the fourth semester of B.Pharm program. The goal of this course is to provide an understanding of the theory and applications of biostatistics and research in matters related to professional practice. The students are taught various aspects of data handling and analysis. The course enables students to develop abilities to apply statistical methods and critically interpret issues encountered in practice. The course is also designed to assist the students in acquiring an understanding of the principles of research methodology for identifying research problems, planning and implementing a research plan.

It will further enable the students to critique research studies and recognize the value of utilizing research findings to improve the quality of pharmaceutical and health science practices, education and management. Basic aspects of pharmacy practice research are taught in this course. The course also deals with the aspects of writing a research proposal. Learning is facilitated through interactive lecture sessions, group discussion, self-directed learning and team based learning.

Course Name : Pharmacology & Therapeutics-2
Course Code : PPT 424
Semester : 4
No. of Credits : 4 (Theory 3+Practical 1)
Course Prerequisites : Pharmacology and Therapeutics-1 (PPT 313)

Course Summary

Pharmacology & Therapeutics-2 is a four-credit course offered in the fourth semester of the B.Pharm program. The goal of this course is to provide the knowledge pertaining to the etiology, pathogenesis, pharmacology and therapeutics of cardiovascular, renal and hematological diseases/disorders. The basic objective of this course is to provide necessary professional skills required for resolving drug-related problems and suggest alternative options for the management of diseases/disorders covered in the course. Learning is facilitated through interactive lecture sessions, case based learning, self-directed learning and team based learning

Course Name : Pharmaceutical Analysis - 2

Course Code : PPA 423
Semester : 4
No. of Credits : 3 (Theory 2+Practical 1)
Course Prerequisites : Pharmaceutical Analysis 1 (PPA-213)

Course Summary

Pharmaceutical Analysis-2 is a three-credit course offered in the fourth semester of B. Pharm program. The goal of the course is to provide the students with the basic knowledge and skills of various instrumentation techniques. The course includes principle, theory, instrumentation, and pharmaceutical applications of the chromatographic, spectroscopic, electrophoresis thermoanalytical techniques used in the identification and analysis of pharmaceuticals. The course also includes an overview of quality control and quality assurance in the analysis of pharmaceuticals. Learning is facilitated through interactive lecture sessions, group discussions, videos, self-directed learning, team-based learning, workshops and practical.

Course Name: Pharmaceutics – 2

Course Code : PPH 423
Semester : 4
No. of Credits : 3 (Theory 2+Practical 1)
Course Prerequisites : Pharmaceutics-1 (PPH 313)

Course Summary

Pharmaceutics-2 is a three-credit course offered in the fourth semester of B. Pharm program. The goal of this course is to equip the students with advanced physicochemical principles related to dosage form design. It will focus on theories of surface and interfacial tension, rheological characteristics of different systems and the importance of these in the formulation, production, efficacy, stability of the disperse pharmaceutical dosage forms. The course exposes students to physical properties and formulation of suspensions, emulsions, suppositories. Lectures and practicals focus on physicochemical properties and thermodynamic characteristics that affect the methods of formulation of pharmaceutical biphasic preparations and semi solid products. Learning is facilitated through interactive lecture sessions, practicals, group discussions, self-directed learning and team based learning.

Course Name : Pharmacy Laws & Ethics

Course Code : PLE 402
Semester : 4
No. of Credits : 2 (Theory 2+Practical 0)
Course Prerequisites : None

Course Summary

Pharmacy Laws and Ethics is a two-credit course offered in the fourth semester of the B.Pharm program. The goal of this course is to provide the students with knowledge of legal activities related to the pharmacy profession and other functions performed with members of the health care team. As part of the curriculum, the students are taught about ethical theory, key moral concepts in health care, moral reasoning, professionalism, accountability and professional decision-making process. The students will also be exposed to case studies in decision making. In addition, this course also provides knowledge relating to drugs, pharmaceuticals, cosmetics and other different professional matters as per the UAE laws and regulations. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and team based learning.

Course Name : Pharmacy Practice - 1

Course Code : PPP 413
Semester : 4
No. of Credits : 3 (Theory 2+ Practical 1)
Course Prerequisites : Introduction to Pharmacy Practice (PPP 302)

Course Summary

Pharmacy Practice-1 is a three-credit course offered in the fourth semester of the B. Pharm program. The goal of this course is to provide the knowledge and skills of various laboratory parameters and their interpretation. In addition, students will understand the procedure and components of patient counseling. Students will also be exposed to the concept of total parenteral nutrition. In the process, students will learn about patient assessment including vital signs, general and physical examination. The course also includes case based learning and hands-on training sessions. Learning is facilitated through interactive lectures, group discussions, self-directed learning and team based learning.

Semester 5:**Course Name: Innovations & Entrepreneurship in Pharmacy**

Course Code	: PIE 503
Semester	: 5
No. of Credits	: 3 (Theory 3+Practical 0)
Prerequisite	: None

Course Summary

Innovation and entrepreneurship in pharmacy is a three credit course offered in the fifth semester of B.Pharm program. The goal of this course is to provide an overview of entrepreneurship in general, the traits of an entrepreneur, current topics in entrepreneurship with a specific focus on innovative pharmacy practice and patient care programs. The course also introduces students to innovative practices in the delivery of the professional responsibilities. This course is designed to provide the students the personal and business tools to make the transition from the academic environment to the daily practice of pharmacy. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, guest lectures and team based learning and visits to industrial and pharmacy business establishments to learn about the skills of entrepreneurship and innovative practices

Course Name: Herbal Pharmacotherapy

Course Code	: PHP 502
Semester	: 5
No. of Credits	: 2 (Theory 2+Practical 0)
Prerequisite	: Foundations of Pharmacy (PFP-102) Pharmacology & Therapeutics -1 (PPT-314) Pharmacology & Therapeutics -2 (PPT-424)

Course Summary

Herbal Pharmacotherapy is a two-credit course offered in the fifth semester of the B.Pharm program. The goal of the course is to provide the students with the basic knowledge of herbal medicines, history, and their clinical significance in modern pharmacy practice and nutraceuticals. The course includes essential herbal medicines describing their historical background, sources, chemical constituents, therapeutic uses, toxicity, adverse effects, metabolomics applications, and quality control. In addition, this course also covers approaches to predict the nature and type of potential herb-drug interactions.

Learning is facilitated through interactive lecture sessions, group discussions, audio-visual, self-directed learning, case studies, team-based learning, guest lectures, and a visit to the herbal pharmaceutical industry.

Course Name: Pharmaceutical Biotechnology - 1**Course Code** : PBT 513**Semester** : 5**No. of Credits** : 3 (Theory 2 + Practical 1)**Course Prerequisites** : Pharmaceutical Microbiology (PMI-303)
Biochemistry & Clinical Chemistry (PBC-303)**Course Summary**

Pharmaceutical Biotechnology-1 is a three -credit course offered in the fifth semester of the B.Pharm program. The goal of this course is to teach principles of biotechnology to produce drugs and pharmaceuticals. The course teaches on various aspects of blood products, glandular products, and enzyme biotechnology, downstream for biopharmaceuticals. The students will be taught about the recent developments & application of biotechnology, which produce wonder drugs, especially in replacement therapy, hormonal products & immunological products.

Opportunity will be provided for the students to integrate the knowledge of pharmaceutical biotechnology along with medicinal chemistry, pharmacology and pharmacy practice. Learning is facilitated through interactive lecture and practical sessions, group discussions, self-directed learning and integrated team and case-based learning. The teaching, learning is supported by the industrial visits, guest lectures and submission of report, to complement the learning and understanding the course.

Course Name : Pharmacology & Therapeutics - 3**Course Code** : PPT 534**Semester** : 5**No. of Credits** : 4 (Theory 3+Practical 1)**Course Prerequisites** : Pharmacology & Therapeutics-1 (PPT-313)
Pharmacology & Therapeutics-2 (PPT-423)**Course Summary**

Pharmacology & Therapeutics-3 is a four-credit course offered in the fifth semester of B.Pharm program. The goal of this course is to provide the knowledge pertaining to the etiology, pathogenesis, pharmacology and therapeutics of dermatology, musculoskeletal, respiratory and ophthalmic diseases/disorders. In addition, opioids, autacoids, local anesthetics and principles of bioassay and toxicology will also be covered during the course. Students will acquire the necessary skills required to deal with patients suffering from these disease conditions in the process. Learning is facilitated through interactive lecture sessions, case based learning, group discussions, self-directed learning and team based learning.

Course Name : Pharmacy Practice-2**Course Code** : PPP 523**Semester** : 5**No. of Credits** : 3 (Theory 2+ Practical 1)**Course Prerequisites** : Introduction to Pharmacy Practice (PPP-302)
Pharmacy Practice-1 (PPP-412)**Course Summary**

Pharmacy Practice-2 is a three-credit course offered in the fifth semester of the B.Pharm program. This course aims to provide knowledge of various areas of pharmacy practice such as hospital, community, and clinical pharmacy services. This course also includes specialized fields of pharmacy practice like pharmacovigilance, medication adherence, medication therapy management, automated dispensing, drug utilization review, pharmacoepidemiology, pharmacoconomics, personalized medicine, pharmacoinformatics, etc. During this course, students will be trained in different areas of pharmacy practice and will develop skills required to perform the professional role. Learning is facilitated through interactive lecture sessions, case-based learning, group discussions, self-directed learning, team-based learning.

Course Name	: Medicinal Chemistry -1
Course Code	: PMC 514
Semester	: 5
No. of Credits	: 4 Theory (Theory 3 + Practical 1)
Prerequisite	: Pharmaceutical Organic Chemistry (POC-203)

Course Summary

Medicinal Chemistry-1 is a four credit course offered in the fifth semester of the B.Pharm program. The goal of the course is to provide the students with a thorough understanding of structure activity relationships, thereby introducing students to structure based therapeutic evaluation. The course is designed to illustrate the significance of chemical structure, physicochemical properties and pharmacophore requirements in drug action and metabolism. The course includes the development, chemical classification, synthesis, analysis and chemical significance of important classes of medicinal compounds. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, team based learning, audio visual, practical and case based learning

Semester 6:

Course Name: Pharmaceutics – 3

Course Code	: PPH 633
Semester	: 6
No. of Credits	: 3 (Theory 2 + Practical 1)
Prerequisite	: Pharmaceutics-1 (PPH -312)/ Pharmaceutics-2 (PPH -423)

Course Summary

Pharmaceutics-3 is a three credit course offered in the sixth semester of B.Pharm program. The goal of this course is to provide the information related to formulation aspects of solid oral and parenteral, ophthalmic and semi-solid dosage forms. This course will focus on physical properties of the powders and granules for tablet production, excipients and granulation techniques. It will focus on the formulation of different types of capsules, production, and filling of gelatin capsules, quality control tests for capsules and tablets.

The course will also highlight the modified-release (per oral and parenteral) delivery systems for targeting specific sites, their design and formulation. Fundamental aspects of radioactive products and their quality control are taught in this course. Learning is facilitated through interactive lecture sessions, practicals, group discussions, self-directed learning and integrated team based learning. The teaching, learning is supported by the industrial visits and submission of the report, to enable students to observe and learn industrial practices

Course Name: Pharmacy Administration

Course Code	: PAP 602
Semester	: 6
No. of Credits	: 2 (Theory 2 + Practical 0)
Prerequisite	: None

Course Summary

Pharmacy Administration is a two-credit course offered in the fifth semester of the B. Pharm program. The goal of this course is to provide the knowledge of various administrative services related to pharmacy, including the health care system and policies followed in hospitals, clinical settings and pharmaceutical industries. The various topics covered in this course are health care finance and reimbursement, consumer behaviour, regulatory and administrative issues, leadership and management skills etc. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning and team based learning.

Course Name: Pharmaceutical Biotechnology-2

Course Code : PBT 623
Semester : 6
No. of Credits : 3 (Theory 2+Practical 1)
Prerequisite : Pharmaceutical Biotechnology-1 (PBT 513)

Course Summary

Pharmaceutical Biotechnology-2 is a three credit course offered in the sixth semester of the B.Pharm program. The goal of the course is to provide the knowledge of fermentation technology, recombinant DNA technology (rDNA technology) and related biotechnological processes. The students will be taught theoretical principles involved in genetic engineering, animal tissue culture, proteomics and antisense technologies. The recent developments & application of biotechnology in pharmacogenomics and personalized medicine will be taught. The regulatory and financial issues of biopharmaceuticals will be dealt in this course. Opportunity will be provided for the students to integrate the knowledge of pharmaceutical biotechnology along with medicinal chemistry, pharmacology and pharmacy practice. Learning is facilitated through interactive lecture and practical sessions, practicals, group discussions, self-directed learning and team and case-based learning. The teaching, learning is supported by the industrial visits, guest lectures and submission of report, to better understand the course related to the practice of industrial biotechnological processes

Course Name: Pharmacology & Therapeutics-4

Course Code : PPT 644
Semester : 6
No. of Credits : 4 (Theory 3+Practical 1)
Prerequisite : Pharmacology and Therapeutics - 1 (PPT-314)
 Pharmacology and Therapeutics - 2 (PPT-424)
 Pharmacology and Therapeutics - 3 (PPT-534)

Course Summary

Pharmacology & Therapeutics-4 is a four-credit course offered in the sixth semester of the B.Pharm program. This course aims to provide knowledge related to etiology, pathogenesis, pharmacology, and therapeutics of endocrine and infectious diseases. In addition to this, the students will also acquire knowledge of antimicrobial resistance and different approaches to tackle antimicrobial resistance, including antibiotic stewardship. Students will acquire the necessary skills required to deal with patients suffering from these disease conditions in the process. Learning is facilitated through interactive lecture sessions, practicals, case-based learning, group discussions, self-directed learning, and team-based learning.

Course Name: Pharmacy Practice-3

Course Code	: PPP 633
Semester	: 6
No. of Credits	: 3 (Theory 2+Practical 1)
Prerequisites	: Introduction to Pharmacy Practice (PPP-302)
	Pharmacy Practice -1 (PPP-41)
	Pharmacy Practice - 2 (PPP-523)

Course Summary

Pharmacy Practice-3 is a three-credit course offered in the sixth semester of the B.Pharm program. This course aims to provide the knowledge and skills required to provide various pharmaceutical care services in a community pharmacy set-up, such as health screening and responding to different minor ailments or disease conditions commonly encountered. The course also attempts to familiarize the students regarding different categories of medications like over-the-counter, prescription-only, and pharmacist-only medications based on the United Arab Emirates health care system and the role of artificial intelligence in pharmacy. The teaching and learning is also supported by the community pharmacy visit and submission of a report also through interactive lecture sessions, case-based learning, group discussions, self-directed learning, and team-based learning.

Course Name: Medicinal Chemistry-2

Course Code	: PMC 624
Semester	: 6
No. of Credits	: 4 (Theory 3 + Practical 1)
Prerequisites	: Pharmaceutical Organic Chemistry (POC-203)
	Medicinal Chemistry-1 (PMC-514)

Course Summary

Medicinal Chemistry-2 is a four credit course offered in the sixth semester of the B. Pharm program. The goal of the course is to provide the students with a thorough understanding of structure activity relationships, thereby introducing students to structure based therapeutic evaluation. The course is designed to illustrate the significance of chemical structure, physicochemical properties and pharmacophore requirements in drug action and metabolism. The course includes the development, chemical classification and chemical significance of various prodrugs, medicinal and chemotherapeutic agents. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, team based learning, computer-assisted learning, audio visuals, case based learning and practical.

Semester 7:**Course Name: Pharmaceutics -4**

Course Code : PPH 744
Semester : 7
No. of Credits : 4 (Theory 3+Practical 1)
Prerequisite : Pharmaceutics-1 (PPH-313) / Pharmaceutics- 2 (PPH-423)
 Pharmaceutics-3 (PPH-633)

Course Summary

Pharmaceutics-4 is a four credit course offered in the seventh semester of B.Pharm program. The goal of this course is to provide the students with the knowledge of the science and technology of formulation and manufacture of cosmetics and personal care products. Lectures will focus on the cosmetic ingredients, the active substances in cosmetic products, cosmetic product formulation and technology. The course also covers the formulation of decorative cosmetics such as face powders, lipsticks, mascara, and hair care products such as shampoos.

The principles of aerosol formulation and manufacture will be covered in this course. The various unit operations involved in cosmetic manufacture like size reduction, mixing and evaporation will be taught. Students will be introduced to the concepts of stability testing and quality control of cosmetic products. Learning is facilitated through interactive lecture sessions, practicals, group discussions, self-directed learning and team based learning. The teaching learning is supported by the visits to cosmetic industry and submission of report, to augment the understanding of the course

Course Name: Pharmaceutical Marketing & Management

Course Code : PMM 703
Semester : 7
No. of Credits : 3 (Theory 3+Practical 0)
Prerequisite : Innovations & Entrepreneurship in Pharmacy (PIE- 503)
 Pharmacy Administration (PAP-602)

Course Summary

Pharmaceutical Marketing and Management is a three credit course offered in the seventh semester of B.Pharm program. The goal of the course is to provide an insight into the management aspects applicable to pharmaceutical operations and marketing. Students are taught the theoretical principles of planning and organization. Students are exposed to principles of material management, purchase and inventory control. The basic issues of marketing pharmaceutical products and elements required to be a successful sales person are taught.

The course teaches students about selection of proper channel of distribution and managing a team of marketing personnel to achieve the desired targets. Students are also taught about the basics of accountancy to handle different financial documents such as cash book and profit & loss account. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, case studies, guest lectures and team based learning. Students will be taken to field visits with professionals in pharmaceutical marketing to augment their learning.

Course Name	: Pharmacology & Therapeutics - 5
Course Code	: PPT - 754
Semester	: 7
No. of Credits	: 4 (Theory 3 + Practical 1)
Prerequisite	: Pharmacology & Therapeutics-1 (PPT-313) Pharmacology & Therapeutics-2 (PPH-423) Pharmacology & Therapeutics-3 (PPT-533) Pharmacology & Therapeutics-4 (PPT-643)

Course Summary

Pharmacology & Therapeutics-5 is a four-credit course offered in the seventh semester of the B.Pharm program. The goal of this course is to provide the knowledge and skills in the area of etiology, pathogenesis, pharmacology and therapeutics related to the central nervous system and GIT. In addition, it provides the knowledge of basic principles of general anesthesia, oncology and drugs acting on the immune system. Learning is facilitated through interactive lecture sessions, case-based learning, group discussions, self-directed and team based learning.

Course Name	: Research Project
Course Code	: PRP 704
Semester	: 7
No. of Credits	: 4 (Theory 0 + Practical / Clinical 4)
Prerequisite	: Biostatistics & Research Methodology (PBR - 402)

Course Summary

Minor Research Project is a four-credit course offered in the seventh semester of the B.Pharm program. The goal of this course is to provide pharmacy students with a means to explore and develop research skills through identifying a research topic, conducting a literature review, writing a research proposal, carrying out, writing, and presenting the research project. In addition, the course will help students to recognize the nature and significance of the research, provide the foundation for future research endeavors, and improve their abilities to work as members of a team and communicate research results. Furthermore, the college intends for the research to be of high enough quality in the field of pharmaceutical sciences.

Each student must undertake a project that involves investigation into a specific research topic in some aspect of pharmaceutical / clinical sciences. This can take the form of a literature-based review, laboratory-based work, or a small-scale questionnaire-based epidemiological, hospital, or community-based study. Each student or a group of students will be assigned to a faculty supervisor/s who will provide the relevant framework for a suggested study. The students will be encouraged to formulate their own ideas. The aims/objectives will be designed jointly with their supervisors. The research project will be evaluated based on the report and presentation, which can be either oral/ poster presentation.

Course Name : Biopharmaceutics & Pharmacokinetics**Course Code : PBK- 503****Semester : 7****No. of Credits : 3 (Theory 2 + Practical 1)****Prerequisite : Pharmaceutics – 2 (PPH 423)
Pharmaceutics – 3 (PPH-633)****Course Summary**

Biopharmaceutics and Pharmacokinetics is a three-credit course offered in the seventh semester of B.Pharm program. The goal of this course is to provide students with the basic understanding of the principles of biopharmaceutics and pharmacokinetics that can be applied to both drug product development and effective drug therapy. The course will discuss the pharmacokinetics of drug disposition following one, two, multiple and non-linear pharmacokinetic models. The students are trained on calculation of disposition parameters of the drugs using the different models for different routes of administration.

The course also covers factors influencing the design of both single and multiple dosage regimen. Practicals performed in this course will enable students to learn about the biopharmaceutical aspects of dosage form development and train them to perform various pharmacokinetic calculations. Learning is facilitated through interactive lecture sessions, practicals, group discussions, self-directed learning and team based learning.

Semester 8:**Course Name : Pharmacovigilance****Course Code : PPV 802****Semester : 8****No. of Credits : 2 (Theory 2 + Practical 0)****Prerequisite : Introduction to Pharmacy Practice (PPP-302)
Pharmacy Practice-1 (PPP-412)
Pharmacy Practice-2 (PPP-523)
Pharmacy Practice-3 (PPP-633)****Course Summary**

Pharmacovigilance is a two-credit course offered in the eighth semester of the B. Pharm program. The goal of this course is to provide the students with comprehensive knowledge and skills related to various concepts and methodologies of pharmacovigilance. The students will be taught about the monitoring, detection, reporting of adverse drug reactions. The course also focuses on various components of pharmacovigilance like coding, indicators, and tools for reporting and documentation adverse drug reactions. The teaching and learning are also supported with a hands-on workshop, webinar, computer-assisted learning, and a report/ presentation submission. Learning is facilitated through interactive lecture sessions, group discussions, guest lectures, workshops, self-directed learning, and team-based learning

Course Name	: Drug Discovery & Development
Course Code	: PDD - 802
Semester	: 8
No. of Credits	: 2 (Theory 2 + Practical 0)
Prerequisite	: Medicinal Chemistry-1 (PMC-514) Medicinal Chemistry-2 (PMC-624) Pharmacology and Therapeutics-1(PPT-313) Pharmacology and Therapeutics-3 (PPT 423)

Course Summary

Drug Discovery & Development is a two credit course offered in the eighth semester of the B.Pharm program. The goal of the course is to provide the students with fundamental knowledge of evolution of drug from bench to clinic. The course includes the methods of lead discovery and drug design strategies for optimization of target interactions and drug access to the target using analogue and structure based drug design approaches, preclinical and clinical studies based on the regulatory considerations. The course also includes an overview of the use of computers in drug design. Learning is facilitated through interactive lecture sessions, group discussions, self-directed learning, team based learning, audio visual, and case based learning.

Course Name	: Clinical Pharmacokinetics
Course Code	: PPV 802
Semester	: 8
No. of Credits	: 3 (Theory 2 + Practical 1)
Prerequisite	: Biopharmaceutics & Pharmacokinetics (PBK-503)

Course Summary

Clinical Pharmacokinetics is a three-credit course offered in the eighth semester of B.Pharm program. The goal of this course is to teach principles and applications of pharmacokinetics in determining and modifying the clinical outcomes. The course deals with application of pharmacokinetic principles on drug disposition following one compartment and multi compartment models and students are trained to perform calculations related to therapeutic drug monitoring and understand its clinical significance.

The students are taught about the design of drug therapy regimen for individual patient, interpret and correlate the plasma drug concentration with patient's therapeutic outcome and recommend dosage adjustment for patients with renal/ hepatic impairment. The course teaches on how biopharmaceutical aspects of different dosage forms influence in achieving optimal therapeutic benefits especially in special populations. Students are also exposed to critical issues involved in the pharmacokinetics of biologicals. Learning is facilitated through interactive lecture sessions, practicals, group discussions, cases studies, self-directed learning, integrated team based and case based learning and hospital visits.

Semester – 8**Course Name : Complementary & Alternative Medicine****Course Code : CM-802****Semester : 8****No. of Credits : 2 (Theory 2 + Practical 0)****Prerequisite : Herbal Pharmacotherapy (PHP-503)****Course Summary**

Complementary & Alternative Medicine (CAM) is a two-credit elective course offered in the eighth semester of B.Pharm program. The goal of the course is to provide the students with comprehensive knowledge and skills related to complementary and alternative medicines. The students will be taught about the fundamentals of CAM, various CAM practices in GCC, history and types of prophetic medicine, aromatherapy, nutritional therapy and apitherapy. The course also focuses on various research models in CAM, Frauds and misconceptions related to CAM products. This teaching and learning is supported by workshops, seminars and submission of report or presentations. Learning is facilitated through interactive lecture sessions group discussions, self-directing learning and team base learning, case base learning and field visits.

Course Name : Practice School – Community Pharmacy**Course Code : PSC - 806****Semester : 8****No. of Credits : 6****Prerequisite : All Pharmacy Practice related courses of the earlier semesters****Course Summary**

Practice School - Community Pharmacy is a six-credit-community pharmacy rotation offered in the eighth semester of the B.Pharm program. The goal of this rotation is to train the students in the provision of pharmaceutical care in a community pharmacy / primary health care setting, which is done under the guidance of an experienced preceptor. The rotation prepares the students to dispense, counsel and identify, resolve and prevent drug-related problems commonly encountered in a community pharmacy setup. The rotation integrates science with practice and prepares the students to become competent pharmacy practitioners.

This rotation will be offered in defined time blocks, and the student will receive intensive training by participating on the site and in the discussion/reflection sessions at the site of rotation and/or college. In addition, the student will complete a checklist of activities and reflection paper to ensure sufficient breadth of experience, exposure to necessary components and activities in a private community pharmacy setting and primary health care centers (PHCs).

Semester – 8**Course Name : Practice School – Industry****Course Code : PSI - 802****Semester : 8****No. of Credits : 2**

Prerequisite : Pharmaceutics - 2 (PPH -423)
Pharmaceutics - 3 (PPH -633)
Pharmaceutics - 4 (PPH -744)
Pharmaceutical Biotechnology-1(PBT-513)
Pharmaceutical Biotechnology-2 (PBT-623)

Course Summary

Practice school (Industry) is a two credit industrial rotation offered in the eighth semester of the B. Pharm program. The goal of the industry rotation is to train the students to learn the skills about manufacturing of various dosage forms such as, tablets, capsules and injections and to understand the operation of different types of equipment employed and the unit operations carried out in pharmaceutical industry. They also will be taught about the scale up processes from pilot plant to production scale of manufacture, the analytical and quality control procedures employed in stability testing and for the assay of the various products. This rotation also helps them to learn about the current Good Manufacturing Practices adopted to prepare quality pharmaceutical products and the different regulatory guidelines that govern the drug manufacture in an industrial set up. They will have a good exposure in documenting different processes related to validation and quality assurance.

All parts of the practice school rotation will be done in approved pharmaceutical industries. Practice school training will be delivered as per the rotation schedule provided by the industry and the student will receive an intensive training of 70 hours by rotating at different units of the industry such as raw materials, production, quality control, R & D and regulatory affairs departments. It also includes discussion/reflective sessions at the site of training and/or college. The students will gain practical experience in industrial operations. The students are assessed daily during the rotations and at the end by written tests, reports and seminars.

Semester – 9

Course Name	: Advanced Practice School – Internal Medicine
Course Code	: APSI- 914
Semester	: 9
No. of Credits	: 4 (Theory 0+Practical 4)
Prerequisite	: All Pharmacy Practice related courses of previous semesters

Course Summary

Advanced Practice School – Internal Medicine is a four-credit rotation offered in the ninth semester of the B. Pharm program. This course is a part of the Practice School – Hospital and is a core rotation which the students have to complete compulsorily. The goal of this hospital rotation is to prepare the students to provide pharmaceutical care services related to common disease conditions encountered in the internal medicine department. In the process, students will acquire knowledge and skills related to treatment, patient education, identifying and resolving pharmaceutical care in general medicine patients as a part of pharmaceutical care services. The rotation will be carried out in approved MOHAP hospitals. The rotation will also include discussion/reflection sessions at the site of rotation and/or college. The students will gain practice experience providing care to a diverse patient population in general medicine settings. The student will complete a checklist of activities and assessments to assure sufficient breadth of experience, exposure to necessary components and activities in a hospital set-up.

Course Name	: Advanced Practice School – Internal Medicine Specialty
Course Code	: APSI - 924
Semester	: 9
No. of Credits	: 4 (Theory 0+Practical 4)
Prerequisites	: All Pharmacy Practice related courses of previous semesters

Course Summary

Advanced Practice School – Internal Medicine Specialty is a four-credit rotation offered in the ninth semester of the B. Pharm program. This course is a part of the Practice School – Hospital and is a core rotation which the students have to complete compulsorily. The goal of this hospital rotation is to prepare the students regarding pharmacotherapy of common disease conditions encountered in specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics. In the process, students will acquire knowledge and skills related to treatment, patient education, identifying and resolving pharmaceutical care issues in specialty medicine patients as a part of pharmaceutical care services. The rotation will be carried out in approved MOHAP hospitals. The rotation will also include discussion/reflection sessions at the site of rotation and/or college. The students will gain practice experience providing care to a diverse patient population in specialty areas like cardiology, nephrology, neurology, psychiatry and pediatrics. The student will complete a checklist of activities and assessments to assure sufficient breadth of experience, exposure to necessary components and activities in a hospital set-up.

Course Name	: Advanced Practice School – Ambulatory Care
Course Code	: APSA - 934
Semester	: 9
No. of Credits	: 4 (Theory 0+Practical 4)
Prerequisite	: All Pharmacy Practice related courses of previous semesters

Course Summary

Advanced Practice School – Ambulatory Care is a four-credit rotation offered in the ninth semester of the B. Pharm program. This course is a part of the Practice School – Hospital and is a core rotation which the students have to complete compulsorily. The goal of this hospital rotation is to prepare the students regarding pharmacotherapy of common disease conditions encountered in ambulatory care setting. In the process, students will acquire knowledge and skills related to treatment, patient education, identifying and resolving pharmaceutical care in specialty medicine patients as a part of pharmaceutical care services. The rotation will be carried out in approved MOHAP teaching hospitals. The rotation will also include discussion/reflection sessions at the site of rotation and/or college. The students will gain practice experience providing care to a diverse patient population in ambulatory care setting. The student will complete a checklist of activities and assessments to assure sufficient breadth of experience, exposure to necessary components and activities in a hospital set-up.

Course Name	: Advanced Practice School – Hospital Pharmacy and Drug Information
Course Code	: APSH - 942
Semester	: 9
No. of Credits	: 2 (Theory 0+Practical 2)
Prerequisites	: All Pharmacy Practice related courses of previous semesters

Course Summary

Advanced Practice School – Hospital Pharmacy and Drug Information is a two-credit rotation offered in the ninth semester of the B. Pharm program. This course is a part of the Practice School – Hospital and is a core rotation which the students have to attend compulsorily. The goal of this rotation is to make the student understand the professional roles of hospital pharmacist and delegate the same diligently to provide effective services to the healthcare personnel and the patients. The students will acquire knowledge and skills related to various hospital pharmacy services such as drug dispensing, drug distribution, drug procurement, hospital formulary, information technology, medication errors and provision of drug information services. The rotation will be carried out in approved MOHAP teaching hospitals. The rotation will also include discussion/reflection sessions at the site of rotation and/or college. The students will gain practice experience providing care to a diverse patient population in hospital pharmacy setting. The student will complete a checklist of activities, assessments and reports to assure sufficient breadth of experience, exposure to necessary components and activities in a hospital set-up.

Course Name	: Advanced Practice School – Electives
Course Code	: APSE - 952
Semester	: 9
No. of Credits	: 2 (Theory 0+Practical 2)
Prerequisite	: All Pharmacy Practice related courses of previous semesters

Course Summary

Advanced Practice School – Electives is a two-credit rotation offered in the ninth semester of the B. Pharm program. These elective rotations are part of the Practice School – Hospital and students can choose any of the two given five elective rotations namely; Geriatric Medicine, Obstetrics and Gynecology, Ophthalmology, ENT and Nutrition. Each of the elective rotation will be conducted over one week. During the course of these electives, students will acquire knowledge and skills related to pharmacotherapy of common disease conditions encountered in Geriatric Medicine, Obstetrics and Gynecology, Ophthalmology, ENT and significance of Nutrition in drug therapy. In the process, students will acquire knowledge and skills related to treatment, patient education, identifying and resolving pharmaceutical care in specialty medicine patients as a part of pharmaceutical care services. The rotation will be carried out in approved MOHAP teaching hospitals. The rotation will also include discussion/reflection sessions at the site of rotation and/or college. The students will gain practice experience providing care to a diverse patient population. The student will complete a checklist of activities and assessments to assure sufficient breadth of experience, exposure to necessary components and activities in a hospital set-up.

16. RAK College of Nursing

Dean's Message

I am delighted to welcome you to the RAK College of Nursing. It is indeed a great privilege and opportunity for you to enter into the noble profession of nursing to serve the humanity. You may be aware of need and demand for professional nurses in hospitals and community-based settings across the world and in UAE. The goal of RAK College of Nursing at the RAK Medical and Health Sciences University is to prepare you to meet the existing challenges of professional nursing. You will find that all our curriculum for different level degree programs are unique, dynamic, reflecting the needs of our changing health care system. Our curriculum balances theory with clinical practice.



The college is equipped with state-of-the art equipment to give students experience from practicing basic assessment skills to managing patients with complex critical care needs utilizing simulation experiences. Undergraduate students in the nursing program will experience individualized attention and have the opportunity to plan for a professional nursing career in a wide variety of areas.

The RAK College of Nursing has grown significantly since its inception in 2007 when it established a baccalaureate nursing program. Currently, we have two undergraduate level educational programs: BSN degree for the high school graduates and RN-BSN Bridge program for the diploma trained registered nurses. We are really proud to make a mention about our Master of Science in Nursing degree program with four different specialties such as Adult Health Nursing, Pediatric nursing, Community Health Nursing and Psychiatric Mental Health Nursing and Master of Science in Midwifery. This is the first Master's program in nursing in UAE. We have plans to offer some more specialties like Oncology Nursing, Renal Nursing, etc. In future may be even Ph.D program in Nursing. All our degree programs both undergraduate and graduate have the full accreditation from the Ministry of Education and Higher Education Affairs, UAE.

We have collaboration and Memorandum of Understanding (MoU) with few universities in Asia, Far East, Middle East and one in the United States for student and faculty exchange programs, research activities and for quality enhancement. We also have a local clinical agreement with Hospitals of MOHAP, SEHA, DHA and two private hospitals for RN-BSN clinical placement.

Our diverse, scholarly faculty are engaged in securing a laudable future for our students by ensuring undergraduate and graduate curricula that are responsive to the newer trends in higher education, nursing and health care. I hope that you find that the College of Nursing at RAKMHSU is just the right place to create your future. Once again, I welcome you to the RAK College of Nursing. We believe in serving students to the best of our ability.

Best Wishes & Bright Future.

Dr. Vijaya Kumardhas

Dean, RAK College of Nursing

Vision

To be recognized as a leading and unique institution offering high standard nursing education and quality nursing research in UAE and Middle-East region.

Mission

To provide different levels of nursing educational programs with a strong theoretical base and diverse clinical experience that contributes to excellence and leadership in professional practice of nursing.

To serve the men and women students of diverse backgrounds who possess the academic and personal attributes necessary to complete the education and become skilled and principled nursing professional, lifelong learner contributing to the society of UAE and the neighboring Gulf countries.

Goals & Objectives:

Goal: 1

To deliver high quality education in nursing comparable to the international standards.

Objectives:

1. Review, evaluate and revise, the existing undergraduate programs for the second renewal of accreditation by CAA, MOE, UAE.
 - Bachelor of Science in Nursing(BSN) 2017;
 - RN-BSN Bridge program by 2017
 - Master of Science in Nursing (MSN) all specialties by 2019
2. Design, develop and offer doctoral programs in various clinical specialties' and non-clinical courses
3. Develop, plan and offer diploma and other contemporary educational curricula to meet international standards based on the national health needs.

A. Selected Diploma in Clinical Specialties:

- Maternity Nursing/Midwifery
 - Oncological Nursing
 - Neonatal Nursing
4. Upgrade and update the existing infrastructure facilities, including library and IT resources to support quality education.
 5. Assess the evaluation system that monitored the outcomes of all programs including budget:
 - a) Monitor and evaluate the effectiveness of the implementation of college level strategic plan
 - b) Evaluate the course outcomes of all the programs and revise if required.
 - c) Evaluate the faculty performances and based on the need develop new faculty development programs

6. Recruit and retain outstanding academic fraternity committed to creation and application of knowledge.
7. Recruit high quality students (Undergraduate and Graduate), committed to acquiring knowledge, skills and appropriate attitudes towards patient care.
8. Continue promoting diversity and academic freedom amongst faculty and students.
9. Develop later, online web-based master's programs.
10. Develop selected doctoral learning experiences online

Goal: 2

Achieve academic excellence in all undergraduate and graduate nursing education programs through a welcoming, engaging, and innovative teaching and learning environment.

Objectives:

1. Update the curriculum with the latest trends and advancements in health sciences education.
2. Enhance the quality of the undergraduate and graduate curriculum to ensure achievement of core competencies
3. Expand the use of simulation and technology in RAKCON
4. Incorporate cultural competency and related diversity initiatives into all academic programs
5. Provide learning opportunities that support lifelong learning both theory and practice;
6. Evaluate the curriculum against the established learning outcomes based on the qualification framework of UAE and revise accordingly.
7. Explore potential for interdisciplinary education with Medical, Pharmacy and Dental.
8. Support the faculty to utilize the available learning resources and innovative teaching methods.
9. Increase faculty satisfaction in the work environment.
10. Identify peer institutions and provide comparison for best practices.

Goal: 3

To promote the development of professional knowledge and practice through evidence - based learning and problem-solving approaches.

Objectives

1. Promote conducive clinical learning environment.
2. Utilize evidence based, problem solving and team approaches in teaching and learning.
3. Develop clinical skills training that is acceptable with international standards.

Goals: 4

To enhance commitment to Community Engagement, Outreach and strategic communication

Objectives:

1. Evaluate current RAKCON service learning and community engagement activities in the all the programs.
2. Seek opportunities to align with the curriculum to meet the needs of the community and RAKCON.
3. Develop collaborative relationships with educational and practice settings in local communities.
4. Cultivate partnerships within higher education, across diverse health organizations, and with communities

Goal: 5

To encourage students and faculty to utilize research within a stimulating and supportive environment for improving the quality of patient care, implementing change in nursing practice and for making nursing practice decision.

Objectives:

1. Promote research among students to improve their clinical practice.
2. Facilitate the faculty to write for research projects and receive research grants.
3. Encourage faculty to publish research papers in scientific journals.
4. Revise the existing budgetary support and access to conferences, external seminars, research and to ensure the key results are entered into the annual strategic plan for action and review.
5. Create awareness and follow up regarding intellectual property rights.
6. Work collaboratively to link research to practice through partnership (translational research
7. Cultivate the development of high quality, high reward interdisciplinary scientific programs

Goal: 6

To focus on the commitment to principle of 'lifelong learning' by providing appropriate continuing professional development modules and pathways.

Objectives:

1. Develop strategies to support lifelong learning via both print and electronic sources and to remain current with the advances in medical and health sciences knowledge, skills and practice.
2. Demonstrate the ability to acquire new information and data and to critically appraise its validity and applicability to one's professional decision and particularly career planning.
3. Monitor the outcomes of the strategies to support lifelong learning for students, academic faculty and admin staff and to ensure the key results are entered into the annual strategic plan for action and review.
4. Strengthen and build the existing alumni association to support graduates in their life after RAKCON. 5. Continue to design, develop and offer more programs based on the new trends through continuing nursing education (CNE) programs.
5. Encourage faculty to participate in scholarly activities by attending workshops, conferences and seminars contributing to faculty development.

Goal: 7

To develop students to use concepts from the humanities and the behavioural sciences to understand oneself and others, the relationship between people, the functioning of communities and to practice professional ethics.

Objectives:

1. Display the personal attributes of compassion, honesty and integrity in relationships with patients, colleagues and communities.
2. Provide opportunities for students all round development including leadership and promotion of health.
3. Strengthen and build on the existing academic advising unit and utilize the counselling cell whenever required for students.
4. Establish relationship with local communities through involvement in community health projects.
5. Demonstrate the ability to educate the patients and community about various health problems and to motivate them to adopt health promoting behavior
6. Identify the implications of basic ethical principles including confidentiality, informed consent, truth telling and justice for the care of the patient.
7. Demonstrate the ability to communicate compassionately and effectively, both verbally and in writing with colleagues, patients and their families.
8. Exhibit a capacity for self-evaluation, moral reflection and ethical reasoning to form the basis for a self-directed, lifelong engagement and involvement in the medical and health sciences profession.

Bachelor of Science in Nursing (BSN) Degree Program

16.1 Stream A: BSN (Basic)

16.1.1 Program Duration

BSN Degree Program (Basic) is of four years duration which also includes the general education.

16.1.2 The Goals

The curriculum has been developed to provide learning opportunities enabling nursing students to acquire fundamental basic skills and appreciate principles relevant to health care in the context of the community

The four year curriculum has been designed to achieve the following goals:

1. To provide quality education in nursing, comparable with the international levels.
2. To ensure that each student nurse is exposed to a wide range of learning opportunities in both practice and theory.
3. To promote the development of professional knowledge and practice through evidence -based learning and problem-solving approaches.
4. To collaborate with health care providers in determining the educational needs of nurses, thus reflecting national and local workforce trends and priorities.
5. To educate students to utilize research within a stimulating and supportive environment for improving the quality of patient care, implementing change in nursing practice and for making nursing practice decisions.
6. To focus on the commitment to the principle of 'lifelong learning' by providing appropriate continuing professional development modules and pathways.
7. To develop students to use concepts from the humanities and the behavioral sciences to understand oneself and others, the relationship between people, and the functioning of communities.
8. To develop an understanding of and practice professional ethics.

16.1.3 Program Outcomes

16.1.3.1 Knowledge: (A)

On successful completion of the BSN program the graduate will be able to:

1. Describe the basic terminology, key ideas, acknowledging sources, on accuracy, on rational argument, development of questioning attitude.
2. Describe the specific facts, terms and basic principles with ability to understand, interpret and express coherently.
3. Identify, describe and utilize the literature and language of the discipline appropriately.
4. Incorporate historical, social, legal and ethical aspects of health care in professional nursing
5. Explain the basic concepts of nature and social sciences relevant to nursing.
6. Demonstrate the skills appropriate to the subject and laboratory skills and also to articulate clearly.
7. Demonstrate critical thinking in the assessment, planning and evaluation of client care through the synthesis and application of validated knowledge and theories from nursing, humanities, psychological and social health sciences.

16.1.3.2 Skills: (B)

On successful completion of the BSN program the graduate will be able to:

1. Demonstrate the ability to establish, maintain and terminate therapeutic relationship with clients.
2. Implement nursing processes to promote, maintain and restore the health of individuals, families, groups and communities.
3. Formulate clinical judgment that is based on critical inquiry and analytical reasoning.
4. Demonstrate the ability to handle cognitive complexity to apply knowledge and skills in new situations.
5. Apply creative solution/approaches in the clinical area.
6. Apply research based knowledge and experience to reflect upon practice
7. Assess, plan, implement and evaluate program of care with clients and inter-professional health care team.
8. Demonstrate leadership and beginning competencies in managing health care team, managing resources and coordinating health care.
9. Demonstrate effective health care teaching skills to promote behavioral and attitudinal changes in patients and other health team members.

16.1.3.3 Competence: (C)

On successful completion of the BSN program the graduate will be able to:

Autonomy and responsibility: (C1)

1. Work independently as well as part of a team in a range of contexts
2. Take and defend positions to formulate creative solutions to problems
3. Assume responsibility for own learning both independent and collaborative.
4. Use critical thinking as a basis for identifying health-related needs of individuals, families, and communities.
5. Integrate ethical, legal and economic accountability into professional nursing practice.
6. Engage in activities to promote the development of the profession of nursing

Self-development: (C2)

1. Take responsibility for his/her own future learning needs in new situations
2. Learn from experiences gained in different contexts and assimilate new knowledge and skills into their practice
3. Audit his/her own skills, analyse and monitor personal development.
4. Value the ideals of lifelong learning to support excellence in nursing practice.

Role in context: (C3)

1. Demonstrate professional attributes relevant to their role
2. Articulate personal standpoint in the context of respect for views of others
3. Set team objectives and take responsibility for team performance in the workplace
4. Interact with professional colleagues in a range of settings
5. Demonstrate the ability to comprehend multiple perspectives and formulate effective actions.

16.1.4 The Curriculum

The BSN program promotes the development of nursing as a caring, patient-centred, scientifically-based profession with an emphasis on problem-based, small group, self-directed learning.

The curriculum has been planned in such a way that the study of nursing, psychological, social sciences and humanities are interrelated and spans the entire program.

In the first and second semesters, the amount of nursing experience is relatively small; the major portion is in the general education, behavioral and natural sciences. The nursing component increases progressively through third, fourth, fifth, sixth, seventh and eighth semesters.

16.1.5 Instructional Methods Based on the Objectives

RAKMHSU is committed to being responsive to students' needs and preparing students to assume future societal leadership roles to meet political, economic, social and technological challenges.

Faculty members are committed to make learning environment more interactive, to integrate technology into learning experience, and to use collaborative learning strategies when appropriate.

Instructional methodologies like Team Based Learning (TBL), evidence-based learning, small group teaching shall be integrated according to the learning outcomes of the courses

16.1.6 Clinical Experience

Based on the reformation done for the BSN program by CAA, MOE, UAE, the first two-year students get their clinical experience in the simulated lab. In the first year of the program itself, the students begins the course foundation of nursing practice with practical experience in the simulated lab settings and visits to community fields. In the second year, the program expands to include working with both healthy people and those experiencing acute illness; increasingly complex situations; and engages in experience that demonstrates interconnection of hospital and community care and is provided in the highly simulated setting in clinical skill lab.

In the third and fourth years of the program, students have an opportunity to learn advanced concepts and more specialized skills in caring for individuals experiencing complex health challenges in both hospital and community settings. It focuses on professional growth and responsibility to contribute to the development of health care through leadership.

16.1.7 Clinical Rotation (Weeks per Semester)

First two year's experience on the highly simulated manikins in the clinical skills lab.

Course	Year 1		Year 2		Year 3		Year 4		Course Total
	I	II	I	II	I	II	I	II	
	No. of Weeks								
Foundations of Nursing Practice~ 1 & 2	4	6	-	-	-	-	-	-	10
Adult Health Nursing – 1 includes following areas given below:	-	-	-	-	-	-	-	-	-
Medical Wards	-	-	2	2	-	-	-	-	4
Surgical Wards	-	-	2	2	-	-	-	-	4
Operation Theatre	-	-	2	2	-	-	-	-	4
Cardiology	-	-	-	1	-	-	-	-	1
Dentistry	-	-	-	1	-	-	-	-	1
Adult Health Nursing - 2 includes Specialties given below:	-	-	-	-	-	-	-	-	-
Dermatology	-	-	-	-	1	-	-	-	1
ENT	-	-	-	-	1	-	-	-	1
Ophthalmic	-	-	-	-	-	1	-	-	1
Orthopedics	-	-	-	-	1	1	-	-	2
Psy-Mental Health Nursing	-	-	-	-	2	4	-	-	6
Child Health Nursing	-	-	-	-	2	4	-	-	6
Nursing Research Project	-	-	-	-	-	2	-	-	2
Nursing Education	-	-	-	-	-	5	-	-	5
Nursing Leadership and Management	-	-	-	-	2	6	-	-	8
Adult Health Nursing - 3	-	-	-	-	-	-	-	-	-
ICU – Including dialysis	-	-	-	-	-	-	3	3	6
Neurology	-	-	-	-	-	-	1	-	1
Obstetric Nursing	-	-	-	-	-	-	9	-	9
Community Health Nursing 1 & 2	-	-	1	3	-	-	2	4	10
Gynaecological Nursing	-	-	-	-	-	-	1	3	4
Clinical Practicum	-	-	-	-	-	-	4	6	10
Semester Total	4	6	7	11	9	23	20	16	96

16.1.8 Hospital Facilities for Clinical Teaching

RAKCON RAKMHSU will use the facilities of Ministry of Health and Prevention hospitals namely Saqr hospital, Ibrahim Bin Hamad Obaidallah hospital, Obaidallah Geriatric Hospital & Abdullah Bin Omran Hospital in Ras Al Khaimah for teaching and clinical training of the students, in addition to the various primary health centers available in Ras Al Khaimah under the ambit of RAK Medical Zone.

Saqr Hospital, has bed capacity of 278. All the surgical specialties like General Surgery, Urology, Neurosurgery, Orthopedics, Oto-rhino-laryngology, Ophthalmology and Pediatrics services are available in the Hospital.

All medical specialties like Internal Medicine, Neurology, Respiratory and Chest medicine, Cardiology, Dermatology, Nephrology are available in Ibrahim Bin Hamad Obaidallah Hospital. Geriatrics including Psychiatric unit is available in Obaidallah Geriatric Hospital.

For training in Obstetrics and Gynecology speciality, BSN & RN-BSN students are posted in Abdullah Bin Omran Hospital.

For training in Obstetrics and Gynecology speciality, BSN & RN-BSN students are posted in Abdullah Bin Omran Hospital.

All medical specialties like Internal Medicine, Neurology, Respiratory and Chest medicine, Cardiology, Dermatology, Nephrology are available in Ibrahim Bin Hamad Obaidallah Hospital. Geriatrics including psychiatric unit is available in Obaidallah Geriatric hospital .

16.1.9 Assessment, Evaluation, Grading and Promotion: Refer Section IV (Page 224)

16.1.10 Study Plan for BSN Program (Four years including General Education) - Stream A (Revised)

Total credit hours= 120

Year 1

Semester 1						Semester 2					
Course Code		Credits			Comprehensive Examination	Course Code		Credits			Comprehensive Examination
		T	P	SL				T	P	SL	
ENG 101	English	2	0	0	ENG 101	ENG 201	Health Sciences Communication in English	2	0	0	ENG 201
ARB 101	Health Sciences Communication in Arabic	2	0	0	ARB 101	NMB 7103	Microbiology	2	1	0	NMB 7103
NFN 7113	Foundations of Nursing Practice-1	3	0	0	NFN 7113	NFN 7123	Foundations of Nursing Practice-2	3	0	0	NFN 7123
NFNS 7112	Foundations of Nursing Practice-1	0	1	1	NFNS 7112	NFNS 7114	Foundations of Nursing Practice-2	0	2	2	NFNS 7114
NAN 7103	Anatomy	1	0.5	0	None	NAN 7103	Anatomy (Contd.)	1	0.5	0	NAN 7103
NPH 7103	Physiology	1	0.5	0	None	NPH 7103	Physiology (Contd.)	1	0.5	0	NPH 7103
NND 7102	Nutrition & Dietetics	2	0	0	NND 7102						
Total		11	2	1		Total		9	4	2	

SL : Simulated Lab

Total Credits 14

Total Credits 15

Year 2

Semester 1						Semester 2					
Course Code		Credits			Comprehensive Examination	Course Code		Credits			Comprehensive Examination
		T	P	SL				T	P	SL	
NET 7202	Nursing Ethics	1	0	0	None	NET 7202	Nursing Ethics (Contd.)	1	0	0	NET 7202
NPN 7202	Pharmacology in Nursing	1	0	0	None	NPN 7202	Pharmacology in Nursing (Contd.)	1	0	0	NPN 7202
NHB 7203	Human Biochemistry	1	0.5	0	None	NHB 7203	Human Biochemistry (Contd.)	1	0.5	0	NHB 7203
ICM 101	Islamic Culture & Medicine	3	0	0	ICM 101	HI T101	Health Informatics Technology	2	1	0	HIT 101
NAH 7214	Adult Health Nursing 1	2	0	0	None	NAH 7214	Adult Health Nursing 1(Contd)	2	0	0	NAH 7214
NAHS 7214	Adult Health Nursing 1	0	0.5	1	None	NAHS 7214	Adult Health Nursing 1	0	0.5	2	NAHS 7214
NRS 7204	Nursing Research Methodology & Statistics	3	1	0	NRS 7204	NPS 7202	Psychology	2	0	0	NPS 7202
ES 101	Emirates Society	3	0	0	ES 101						
Total		14	2	1		Total		9	2	2	
Total Credits 17						Total Credits 13					

Year 3

Semester 1						Semester 2					
Course Code		Credits			Comprehensive Examination	Course Code		Credits			Comprehensive Examination
		T	P	C				T	P	C	
NNE 7303	Nursing Education	1	0	0	None	NNE 7303	Nursing Education (Contd.)	1	1	0	NNE 7303
NPN 7306	Paediatric Nursing	2	1	1	None	NPN 7306	Paediatric Nursing (Contd.)	1	0	1	NPN 7306
NPM 7306	Psychiatric Mental Health Nursing	1.5	0.5	1	None	NPM 7306	Psychiatric Mental Health Nursing (Contd.)	2	0	1	NPM 7306
NAH 7327	Adult Health Nursing-2	2	1	2	None	NAH 7327	Adult Health Nursing-2	1	0	1	NAH 7327
NLM 7303	Nursing Leadership & Management	1	0	0	None	NLM 7303	Nursing Leadership & Management (Contd.)	1	0	1	NLM 7303
NPT 7302	Professional Issues & Trends in Nursing	1	0	0	None	NPT 7302	Professional Issues & Trends in Nursing (Contd.)	1	0	0	NPT 7302
NCH 7315	Community Health Nursing 1	1	1	1	None	NCH 7315	Community Health Nursing 1	1	0	1	NCH 7315
Total		9.5	3.5	5		Total		8	1	5	
Total Credits 18						Total Credits 14					

Year 4

Semester 1						Semester 2					
Course Code		Credits			Comprehensive Examination	Course Code		Credits			Comprehensive Examination
		T	P	C				T	P	C	
NOB 7408	Obstetric Nursing	2	1	2	None	NOB 7408	Obstetric Nursing (Contd.)	2	0	1	NOB 7408
NGN 7404	Gynaecological Nursing	1	0	1	None	NGN 7404	Gynaecological Nursing (Contd.)	1	0	1	NGN 7404
NAH 7437	Adult Health Nursing-3	2	1	1	None	NAH 7437	Adult Health Nursing-3 (Contd.)	1	0	2	NAH 7437
NCH 7425	Community Health Nursing 2	1	0	1	None	NCH 7425	Community Health Nursing 2 (Contd.)	2	0	1	NCH 7425
NCP 7403	*Clinical Practicum	0	0	3	NCP 7402	NCP 7402	*Clinical Practicum (Contd.)Elective	0	0	2	None
Total		6	2	8		Total		6	0	7	
Total Credits 16						Total Credits 13					

Clinical contact hours: 1600

*Clinical Practicum: 3 Credits – Rotational Shifts &

2 Credits – Elective (Maternal & Child Health Nursing/ Mental Health Nursing/ Critical Care Nursing/ Community Health Nursing)

Clinical hands on experience is given in the high fidelity simulation Lab for BSN students of I & II years. III & IV Years in the hospitals.

16.1.11 Description of Courses

Year 1: Semester I

ENG 101 English (2-0-0=2)

Prerequisites: None

This course covers the basic skills of the English language that are required at the undergraduate level of studies in Medical & Health Sciences. It focuses on reading, writing, listening and speaking effectively in English. A comprehensive review of essential syntax and semantics required for medical & health sciences education is provided.

ARB 101 Health Sciences Communication in Arabic (2-0-0=2)

Prerequisites: None

This course aims at teaching communication skills in Arabic language. The course focuses on the skills of Reading, Writing, Speaking and Listening. The broad goal of this course is to enable the students to have better understanding of Arabic language to communicate with patients and hospital staff in their profession.

NFN 7113 Foundations of Nursing Practice – 1 (3- 0-0= 3)

Prerequisites: None

An introduction to the definition of Nursing and Health. Emphasis is on the relevance of context and on caring, nursing history and professionalism, nursing process, skills in assessment, basic procedures and communication

NFNS 7112 Foundations of Nursing Practice – 1 (0- 1- 1= 2)

Prerequisites: None

An introduction to the fundamental skills relevant to the context of caring and meeting basic needs of patients. It also gives an opportunity to apply therapeutic communication techniques and nursing process in providing comprehensive patient care.

NAN 7103 Anatomy (1-0.5-0=1.5)

Prerequisites: None

This course is a study of normal anatomy of the human body through lecture, demonstration visuals and hands on laboratory experience. It will provide the student with a basis for clinical nursing practice.

NPH 7103 Physiology (1-0.5-0=1.5)

Prerequisites: None

Physiology of the body systems will be explored, including reproduction, homeostasis and fluid balance. Learned through lecture, demonstration, visuals and hands on laboratory experience.

NND 7102 Nutrition and Dietetics (2- 0 -0=2)

Prerequisites: Semester I Courses

Nutrition and Dietetics is a two credit course offered in the second semester. It is a foundation course in nutrition to provide the students a perspective on some of the links between diet, health and disease. Introduction to diet therapy in disease states is integrated throughout the course.

Year 1 - Semester 2

ENG 201 Health Sciences Communication in English

(2-0-0=2)

Prerequisites: Semester I Courses

The course is need based for professionals in health care. It focuses on the soft skills in the English language required by the medical professional to interact with patients and their families. At every level it emphasizes on empathy and active listening skills while interacting with patients, their families as well as their own colleagues. Students are exposed to techniques of communicating in different contexts encountered by a medical and health sciences professional as well as a whole range of Public speaking skills including conference presentations.

NMB 7103 Microbiology

(2-1-0=3)

Prerequisites: Semester I courses

This course provides first-year nursing students with knowledge of principles of medical microbiology and immunology that will support the study of the role of microbes in disease production. This will prepare the students for the practice of infection control measures and their role in diagnosis and management of infectious diseases.

NFN 7123 Foundations of Nursing Practice – 2

(3-0-0=3)

Prerequisites: Semester I Courses

This course is continuation from Foundations of Nursing-1; the student continues to develop her/his knowledge and skill in recognizing and carrying out the basic needs of patients, integrating scientific principles using problem solving approach and nursing skills procedures. End of life care and basic emergency care will be introduced.

NFNS 7114 Foundations of Nursing Practice – 2

(0-2-2=4)

Prerequisites: Semester I Courses

This course is continuation from Foundations of Nursing-1; it provides opportunity to develop knowledge, skills, attitude and clinical reasoning for problem solving in care of patients with diverse medical – surgical problems including basic emergency care.

NAN 7103 Anatomy (Contd.)

(1-0.5-0=1.5)

Prerequisites: Semester I Courses

This course is a continuation from Sem I.

NPH 7103 Physiology (Contd.)

(1-0.5-0=1.5)

Prerequisites: Semester I Courses

This course is a continuation from Sem I

Year 2 - Semester 1

NET 7202 Nursing Ethics

(1-0-0=1)

Prerequisites: Year 1, Semester I & II courses

This course explores the fundamental principles of nursing ethics and encourages reflection on and discussion about personal and professional values within nursing practice contexts. Students will analyse some of the most common and difficult ethical dilemmas faced by nurses. These dilemmas will be analysed with consideration to ethical reasoning and decision-making.

NPN 7202 Pharmacology in Nursing

(1- 0- 0=1)

Prerequisites: Year 1, Semester I & II courses

In this course, students will synthesize pharmacological concepts; explain the terminology, pharmacotherapeutics, pharmacodynamics, pharmacokinetics, contraindications and precautions for prototype drugs for multiple organ systems will be studied. Major emphasis will be placed on nursing management practices that minimize the adverse effects and maximize therapeutic effects in patients and the role of nurse in pharmacological research.

NHB 7203 Human Biochemistry

(1-0.5-0=1.5)

Prerequisites: Year 1, Semester I & II courses

This is a system based introductory biochemistry course dealing with the basic concepts of bio molecules such as carbohydrates, lipids, proteins, enzymes and the functioning of musculoskeletal, gastrointestinal, blood, respiratory, cardiovascular, excretory, and endocrine systems. The students are also exposed to the fundamental aspects of molecular biology and its relation to the causes of common diseases.

ICM 101 Islamic Culture and Medicine

(3-0-0=3)

Prerequisites: None

This course is designed to develop a better understanding of Islamic belief and its application in life besides focusing on current modern medical and science issues in Islam. The broad goal of this course is to enable the students to have better understanding of Islamic medical issues and appreciation of Islam as a way of life, its impact in the field of medicine, the contribution of Islam to medical in general, and to sciences in particular.

NAH 7214 Adult Health Nursing – 1

(2- 0- 0=2)

Prerequisites: Year 1, Semester I, II & III courses

This course deals with variety of adult patients including geriatrics with specific medical and surgical conditions, communicable diseases, instructional therapeutic nutrition with special emphasis on problem solving approach of comprehensive patient care which includes diet therapy and health education.

NAHS 7214 Adult Health Nursing – 1

(0- 0.5-1= 1.5)

Prerequisites: Year 1, Semester I, II & III courses

This course deals with variety of adult patients including geriatrics with specific medical and surgical conditions, communicable diseases, instructional therapeutic nutrition with special emphasis on problem solving approach of comprehensive patient care includes diet therapy and health education.

NRS 7204 Nursing Research Methodology & Statistics**(3-1-0=4)**

Prerequisites: Year 1, Semester I & II courses

This course is designed to assist the students to acquire an understanding of the research methodology and statistics and its application to nursing. It will further enable the students to critique research studies and recognize the value of utilizing evidence based nursing practice to improve quality of care.

ES 101 Emirates Society**(3-0-0=3)**

Prerequisites: Year 1, Semester I & II courses

This course is designed to consolidate national belonging and identity to appreciate national achievements of the United Arab Emirates. The course focuses on producing students to the main social features of Emirati community and its core values and heritage, as well as the history and geography of the country.

Year 2: Semester 2**NET 7202 Nursing Ethics (Contd.)****(1-0-0=1)**

Prerequisites: Year 2, Semester I courses

This course is a continuation from Sem I

NPN 7202 Pharmacology in Nursing (Contd.)**(1-0-0=1)**

Prerequisites: Year 2, Semester I courses

This course is a continuation from Sem I

NHB 7203 Human Biochemistry (Contd.)**(1-0.5-0=1.5)**

Prerequisites: Year 2, Semester I courses

This course is a continuation from Sem I

HIT 101 Health Informatics Technology**(2-1-0=3)**

Prerequisites: None

The goal of this course is to teach basic computer skills necessary in an academic environment including, use of the internet and other computer programs for research and data analysis.

NAH 7214 Adult Health Nursing I (Contd.)**(2-0-0= 2)**

Prerequisites: Year 2, Semester I courses

This course is a continuation from Sem I

NAHS 7214 Adult Health Nursing I (Contd.)**(0-0.5-2= 2.5)**

Prerequisites: Year 2, Semester I courses

This course is a continuation from Sem I

NPS 7202 Psychology**(2-0-0 =2)**

Prerequisites: Year 1, Semester I & II courses

General Psychology is a survey of various methods, principles, and theories of scientific psychology as applied to the study and understanding of human thoughts, emotions and behaviors. It also includes physiological foundations of behavior, growth and development, learning and memory. Motivation and emotions, personality, stress and adjustment, social interactions, and psychological disorders and treatment approaches are also included.

Year 3: Semester 1**NNE 7303 Nursing Education****(1-0-0=1)**

Prerequisites: Year 2, Semester I & II courses

This course includes the philosophy and objectives of nursing education concepts and principles of curriculum development, evaluation, guidance and counselling including methods of teaching.

NPN 7306 Paediatric Nursing**(2-1-1=4)**

Prerequisites: Year 2, Semester I & II courses

This course focuses on the most common acute and long-term health problems of the child. Effects of illness and hospitalization on the child and family unit will also be explored. The course includes a practicum component with experience in the acute care and well-child setting. The use of normal growth and development criteria are stressed.

NPM 7306 Psychiatric – Mental Health Nursing**(1.5-0.5-1=3)**

Prerequisites: Year 2, Semester I & II courses

This course introduces the basic principles and concepts of mental health nursing. Emphasis will be on therapeutic interventions and nursing care for mentally ill clients and their caregivers. This also includes rehabilitative aspects of the patients with mental illness.

NAH 7327 Adult Health Nursing – 2**(2- 1- 2=4)**

Prerequisites: Year 1, Semester I & II courses

This course is continuation of Adult Health Nursing 1. The emphasis is on medical-surgical specialties – Haematology, Immunology, Integumentary, musculoskeletal, ENT, and Ophthalmology. Planned and guided experiences shall be provided in acute care units including adult medical and surgical settings and also in the specialty units. Nursing concepts basic to health and illness shall be examined across the continuum of individuals and family.

NLM 7303 Nursing Leadership and Management**(1-0-0=1)**

Prerequisites: Year 2, Semester I & II courses

This course explores the organizational strategies, leadership theories and societal trends with implications for decision-making in health care. Introduction to management skills needed by professional nurses with clinical application in diverse settings is also provided.

NPT 7302 Professional Issues and Trends in Nursing (1-0-0=1)

Prerequisites: Year 2, Semester I & II courses

The course introduces students to the status of nursing in the UAE health care system, perspectives to be explored will include social, political, organizational, and legal/ethical factors. The continuing debate about the essence of nursing including professional issues will be examined. Current issues will be critically analysed in relation to their influence on the nursing profession and nursing practice.

NCH 7315 Community Health Nursing – 1 (1-1-1=3)

Prerequisites: Year 2, Semester I & II courses

Community Health Nursing course is designed to assist the learner in acquiring knowledge and skills for health promotion, maintenance, or restoration of individuals, families, or groups of various ages and cultures in the community settings.

Year 3: Semester II**NNE 7303 Nursing Education (Contd.) (1-1-0=2)**

Prerequisites: Year 3, Semester I courses

This course is a continuation from Sem I

NPN 7306 Paediatric Nursing (Contd.) (1-0-1=2)

Prerequisites: Year 3, Semester I courses

This course is a continuation from Sem I

NPM 7306 Psychiatric – Mental Health Nursing (Contd.) (2-0-1=3)

Prerequisites: Year 3, Semester I courses

This course is a continuation from Sem I.

NAH 7327 Adult Health Nursing – 2 (1-0-1=2)

Prerequisites: Year 2, Semester I, II & III courses

This course is a continuation from Sem I.

NLM 7303 Nursing Leadership and Management (Contd.) (1-0-1=2)

Prerequisites: Year 3, Semester I courses

This course is a continuation from Sem I.

NPT 7302 Professional Issues and Trends in Nursing (Contd.) (1-0-0=1)

Prerequisites: Year 3, Semester I courses

This course is a continuation from Sem I

NCH 7315 Community Health Nursing – 1 (Contd.) (1-0-1=2)

Prerequisites: Year 1, Semester I & II courses

This course is a continuation from Sem I

Year 4: Semester I

NOB 7408 Obstetric Nursing

(2-1-2=5)

Prerequisites: Year 3, Semester I & II courses

This course focuses on the normal physiological changes and maternal adaptations related to the pregnancy and nursing care of the normal prenatal, intrapartal and postpartal stages and the normal neonate. Common complications of pregnancy, labour and delivery, postpartum, and the neonate are also discussed. The clinical component will provide selected experiences in the care of prenatal, intrapartal, postpartal clients, and the new-born.

NGN 7404 Gynaecological Nursing

(1-0-1=2)

Prerequisites: Year 3, Semester I & II courses

This course deals with normal health of women and common diseases of female reproductive system and its nursing care.

NAH 7437 Adult Health Nursing – 3

(2-1-1= 4)

Prerequisites: Year 3, Semester I & II courses

Designed to increase the depth of knowledge and level of nursing skill. Content includes principles and concepts of advance medical-surgical and mental health which are organized around the nursing process and nursing diagnosis. Integrated throughout are concepts of health promotion, nutrition, and pharmacology. Socio-cultural factors and adaptations for the elderly are also incorporated. Clinical experience includes care of patients with complex medical-surgical conditions

NCH 7425 Community Health Nursing – 2

(1-0-1=2)

Prerequisites: Year 3, Semester I & II courses

Community health nursing course focuses on health of the population in the community, principles of health care, strategies of health promotion, and epidemiological concepts of nursing care with individuals, families, groups, and communities. Professional, legal/ethical, economic, cultural, and environmental issues relevant to community health nursing will also be examined.

NCP 7403 Clinical Practicum

(0-0-3=3)

Prerequisites: All first to third year nursing courses

The purpose of this course is to provide clinical immersion opportunities for students in practical settings to support knowledge applications, skill developments and refinements, role developments and transition to practice. These experiences will develop the students, critical thinking/clinical reasoning skills and increase communications skills, time management and organization abilities. Opportunities to explore the multiple roles of the professional nurse in the health care settings to serve as the member of the inter-professional team and prepare students for reality based practice.

Year 4: Semester II

NOB 7408 Obstetric Nursing (Contd.) (2-0-1=3)

Prerequisites: Year 4 Semester I Courses

This course is a continuation from Sem I

NGN 7404 Gynaecological Nursing (Contd.) (1-0-1=2)

Prerequisites: Year 4 Semester I Courses

This course is a continuation from Sem I

NAH 7437 Adult Health Nursing – 3 (Contd.) (1-0-2=3)

Prerequisites: Year 4 Semester I Courses

This course is a continuation from Sem I

NCH 745 Community Health Nursing – 2 (Contd.) (2-0-1=3)

Prerequisites: Year 4 Semester I Courses

This course is a continuation from Sem I

NCP 7402 Clinical Practicum (Contd.) (0-0-2=2)

Prerequisites: All first to fourth year nursing courses

This course is a continuation from Sem I

16.2 Stream B: Registered Nurse-Bachelor of Science in Nursing (RN-BSN)

16.2.1 Program Duration

Two year, full time Bachelor of Science in Nursing Degree Program for registered nurses who have completed Diploma in Nursing and also have a minimum of two years' clinical experience.

16.2.2 The Goals

The two year curriculum has been designed to achieve the following goals:

1. To provide quality education in nursing, comparable to the international levels.
2. To ensure that each student nurse is exposed to wide range of learning opportunities in both practice and theory.
3. To promote the development of professional knowledge and practice through evidence -based learning and problem-solving approaches.
4. To collaborate with health care providers in determining the educational needs of nurses, thus reflecting national and local workforce trends and priorities.
5. To educate students to utilize research within a stimulating and supportive environment for improving the quality of patient care, implementing change in nursing practice and for making nursing practice decisions.
6. To focus on the commitment to principle of 'lifelong learning' by providing appropriate continuing professional development modules and pathways.
7. To encourage students to use concepts from the humanities and the behavioral sciences to understand oneself and others, the relationship between people, and the functioning of communities.
8. To develop an understanding of and practice professional ethics.

16.2.3 Program Outcomes

16.2.3.1 Knowledge :(A)

On successful completion of the RN-BSN Bridge program the graduate will be able to:

1. Synthesize current knowledge from nursing science, humanities, social and natural sciences into nursing practice.
2. Utilize critical thinking skills to provide comprehensive nursing care.
3. Utilize teaching and learning processes to promote and maintain health.
4. Incorporate evidence-based findings from nursing and health-related research to improve health outcomes.
5. Examine the impact of social, economic, legal and political factors on nursing and the health care system.

16.2.3.2 Skill: (B)

On successful completion of the RN-BSN Bridge program the graduate will be able to:

1. Apply previously learned skills and perform technical procedures safely and accurately.
2. Demonstrate adequate skills in rendering comprehensive nursing care to client using nursing care process.
3. Integrate effective communication skills consistent with the roles of the professional nurse.
4. Organize health education programs in the hospital and community environment.
5. Apply leadership, management and learning theories to enhance the development of nursing practice in the diverse context of healthcare delivery.
6. Coordinate the delivery of comprehensive healthcare by demonstrating leadership in collaboration with other disciplines.
7. Incorporate contemporary technology into nursing practice.
8. Apply research based knowledge and experience to reflect upon practice.
9. Demonstrate beginning skill of a teacher in classroom.

16.2.3.3 Competence: (C)

On successful completion of the RN-BSN Bridge program graduate will be able to:

Autonomy and responsibility: (C1)

1. Model compassionate caring, culturally competent behaviors in the delivery of comprehensive nursing care.
2. Articulate personal standpoint in the context of respect for views of others.
3. Assume responsibility for own learning both independent and collaborative.
4. Create safe care environment that result in high quality client outcome

Self- Development: (C2)

1. Audit one's own skills, analyze and monitor personal development.
2. Demonstrate a commitment to lifelong learning and professional development

Role in context: (C3)

1. Practice within the ethical, legal, and regulatory frameworks of nursing and standards of professional practice, demonstrating accountability for nursing practice
2. Engage in safe nursing practices that support quality clinical prevention and population health activities

16.2.4 Admission Requirements and Program Completion Requirements

Refer Admission Regulations (Page 37- 43)

16.2.4.1 Additional Program Requirements

This program has additional program-specific admission requirements.

- Should be a graduate from an accredited school of nursing.
- Possess RN licensure from the country of origin.
- Should have two years clinical working experience in hospital/community after completion of Diploma in Nursing.
- Should have completed the following prerequisites courses in the Diploma in Nursing / Associate Degree Program as mentioned below :

16.2.4.2 Prerequisite Courses

16.2.4.2.1 General Education Courses:

English, Mathematics, Chemistry, Physics

16.2.4.2.2 Foundation Courses:

Introduction to Psychology; Microbiology; Pathology; Anatomy and Physiology – 1 & 2; Human Biochemistry; Nutrition; Sociology

16.2.4.2.3 Nursing Courses:

Fundamentals of Nursing; Pharmacology in Nursing; Medical-Surgical Nursing-1 & 2; Community Health Nursing-1; Pediatric Nursing; Psychiatric Nursing; Gynecological and Maternity Nursing.

16.2.5 The Curriculum

The RN-BSN bridge program promotes the development of nursing as a caring, patient-centered, scientifically-based profession with an emphasis on problem-based, team-based, small group and self-directed learning.

The curriculum has been planned in such a way that it bridges with in-depth knowledge and skill in the core and noncore nursing courses which includes the newer trends and advances, essential for a professional nurse in practice

16.2.6 Instructional Methods Based on the Learning Outcomes

RAKCON RAKMHSU is committed to being responsive to students' needs and preparing students to assume future societal leadership roles to meet political, economic, social and technological challenges.

Faculty members are committed to make learning environment more interactive, to integrate technology into learning experience, and to use collaborative learning strategies when appropriate.

Instructional methodologies like problem-based learning (PBL), evidence-based learning, Team-based learning and small group teaching shall be integrated according to the objectives.

16.2.7 Clinical Experience

In the first semester after two weeks of theory classes the clinical experience will begin in the hospital settings.

In the second year, the program extends to community care, evidence based practice and leadership training in the hospital.

16.2.8 Clinical Rotation, Weeks per Semester

Course	Year				Course Total
	Year I		Year 2		
	I	II	I	II	
	No. of Weeks				
Adult Health Nursing includes the following areas given below:	-	-	-	-	-
Medical wards	1	2	-	-	3
Surgical wards	1	2	-	-	3
Critical Care Unit	2	2	-	-	
Psychiatric Mental Health Nursing includes the following area given below:	-	-	-	-	-
Psychiatric	2	2	-	-	4
Obstetrical and Gynecological Nursing includes the following areas given below:	-	-	-	-	
Obstetrics	2	4	-	-	
Gynecology	2	2	-	-	
Pediatric Nursing includes the following area given below:	-	-	-	-	-
Pediatrics	2	2	-	-	4
Community Health Nursing	-	-	4	3	7
Nursing Education	-	-	4	3	7
Nursing Leadership and Management	-	-	4	4	8
Nursing Research Project	-	-	-	6	6
Semester Total	12	16	12	16	56

16.2.9 Hospital Facilities for Clinical Teaching

RAKCON RAKMHSU will use the facilities of Ministry of Health and Prevention hospitals namely Saqr hospital, Ibrahim Bin Hamad Obaidallah hospital, Obaidallah Geriatric Hospital & Abdullah Bin Omran Hospital in Ras Al Khaimah for teaching and clinical training of the students, in addition to the various primary health centers available in Ras Al Khaimah under the ambit of RAK Medical Zone.

Saqr Hospital, has bed capacity of 278. All the surgical specialties like General Surgery, Urology, Neurosurgery, Orthopedics, Oto-rhino-laryngology, Ophthalmology and Pediatrics services are available in the Hospital.

All medical specialties like Internal Medicine, Neurology, Respiratory and Chest medicine, Cardiology, Dermatology, Nephrology are available in Ibrahim Bin Hamad Obaidallah Hospital. Geriatrics including Psychiatric unit is available in Obaidallah Geriatric Hospital.

For training in Obstetrics and Gynecology speciality, BSN & RN-BSN students are posted in Abdullah Bin Omran Hospital.

Students from Dubai Sharjah, Ajman will have clinical placements in MOHAP Hospitals in Dubai. Similarly students from Al Ain will be placed in Al Ain Hospital and Tawam Hospital. Students from Fujairah will have clinical placement in Fujairah Hospital & students from Abu Dhabi will have clinical placement in Mafraq Hospital.

16.2.10 Assessment Evaluation, Grading and Promotion

Refer section IV for details (Page 198)

16.2.11 Study Plan for RN-BSN Bridge Program (2 years, 4 semesters) along with General Education - Stream B

Total credit hours = 72

Year 1

Semester 1						Semester 2					
Course Code	Course Title	Credits			Comprehensive Examination	Course Code	Course Title	Credits			Comprehensive Examination
		T	P	C				T	P	C	
NAH 7109	Adult Health Nursing (Pathology, Biochemistry, Pharmacology, Geriatric Nursing)	2	1	1	None	NAH 7109	Adult Health Nursing (Pathology, Biochemistry, Pharmacology, Geriatric Nursing)-Continued	3	0	2	NAH 7109
NPM 7105	Psychiatric Mental Health Nursing	1	1	1	None	NPM 7105	Psychiatric Mental Health Nursing -Continued	1	0	1	NPM 7105
NOG 7107	Obstetrical & Gynecological Nursing	2	0	1	None	NOG 7107	Obstetrical & Gynecological Nursing -Continued	2	0	2	NOG 7107
NPN 7105	Pediatric Nursing	1	1	1	None	NPN 7105	Pediatric Nursing -Continued	1	0	1	NPN 7105
ENG 101	English	2	0	0	ENG 101	ICM 101	Islamic Culture And Medicine	3	0	0	ICM 101
ARB 101	Health Sciences Communication in Arabic	3	0	0	ARB 101	NET 7102	Nursing Ethics	2	0	0	NET 7102
NPS 7103	Psychology	3	0	0	NPS 7103	Total			12	0	6
Total		14	3	4		Total			12	0	6
Total Credits 21						Total Credits 18					

Year 2

Semester 1						Semester 2					
Course Code		Credits			Comprehensive Examination	Course Code		Credits			Comprehensive
		T	P	C				T	P	C	
NNE 7206	Nursing Education	2	1	0	None	NNE 7206	Nursing Education (Cont.)	1	2	0	NNE 7206
NLM 7203	Nursing Leadership and Management	2	0	1	None	NLM 7203	Nursing Leadership and Management Continued	1	0	1	NLM 7205
NCH 7209	Community Health Nursing	2	1	2	None	NCH 7209	Community Health Nursing Continued	2	0	2	NCH 7209
NRS 7205	Nursing Research Methodology & Statistics	2	0	0	None	NRS 7205	Nursing Research Methodology & Statistics Continued	1	2	0	NRS 7205
NSO 7203	Sociology	3	0	0	NSO 7203	NPT 7202	Professional Issues & Trend in Nursing	2	0	0	NPT 7202
						CSK 101	Computer Skills	3	0	0	CSK 101
Total		11	2	3		Total		10	4	3	
Total Credits 16						Total Credits 17					

16.2.12 Description of Courses

Year 1: Semester I

NAH 7109 Adult Health Nursing**(2-1-1=4)**

Prerequisites: Foundation in Nursing and Medical Surgical in Diploma in Nursing Program

This course is designed to provide the registered nurse student, the opportunity to apply baccalaureate nursing strategies and the nursing process while assisting clients and families in maintaining and/or regaining an optimal level of wellness. Emphasis is given to the role of the nurse as a care provider, teacher, collaborator, and problem solver in client's care across the life span. It will include adults/geriatrics medical-surgical component.

NPM 7103 Psychiatric - Mental Health Nursing**(1-1-1=3)**

Prerequisites: Psychiatric Nursing course in Diploma in Nursing Program

Designed to provide the registered nurse student the opportunity to apply baccalaureate nursing strategies and the nursing process while assisting clients and families in maintaining and/or regaining an optimal level of wellness. Emphasis is given to the role of the nurse as a care provider, teacher, collaborator, and problem solver in client's care across the life span. It will include Psychiatric-mental health components.

NOG 7107 Obstetrical & Gynecological Nursing**(2-0-1=3)**

Prerequisites: Maternity Nursing course in Diploma in Nursing Program

This course is designed to develop knowledge, skills in management of clients with common diseases of female reproductive systems and obstetric conditions. It will help the students to apply theoretical knowledge and research based competencies while caring for women with gynecological and obstetrical problems.

NPN 7105 Pediatric Nursing**(1-1-1=3)**

Prerequisites: Pediatric Nursing course in Diploma in Nursing Program

This course is designed to provide the registered nurse student the opportunity to apply baccalaureate nursing strategies and the nursing process while assisting child clients and their families in maintaining and/or regaining an optimal level of wellness. Emphasis is given to the role of the child health nurse as a care provider, teacher, collaborator, and problem solver to the child client and their family.

ENG 101 English**(2-0-0=2)**

Prerequisites: None

The course is need based for professionals in health care. It focuses on the soft skills in the English language required by the medical professional to interact with patients and their families. At every level it emphasizes on empathy and active listening skills while interacting with patients, their families as well as their own colleagues. Students are exposed to techniques of communicating in different contexts encountered by a medical and health sciences professional as well as a whole range of Public speaking skills including conference presentations

ARB 101 Health Sciences Communication in Arabic**(3-0-0=3)**

Prerequisites: None

This course aims at teaching communication skills in Arabic language. The course focuses on the skills of reading, writing, speaking and listening. The broad goal of this course is to enable the students to have better understanding of Arabic language to communicate with patients and hospital staff in their profession.

NPS 7103 Psychology**(3-0-0=3)**

Prerequisites: None

General Psychology is a survey of various methods, principles, and theories of scientific psychology as applied to the study and understanding of human thoughts, emotions and behaviors. It also includes physiological foundations of behavior, growth and development, learning and memory. Motivation and emotions, personality, stress and adjustment, social interactions, and psychological disorders and treatment approaches are also included.

Year 1: Semester II**NAH 7109 Adult Health Nursing (Contd.)****(3-0-2=5)**

Prerequisites: Semester – I course

This course is a Continuation of Sem I

NPM 7103 Psychiatric- Mental Health Nursing (Contd.)**(1-0-1=2)**

Prerequisites: Semester – I course

This course is a Continuation of Sem I

NOG 7107 Obstetrical & Gynecological Nursing (Contd.)**(2-0-2=4)**

Prerequisites: Semester – I course

This course is a Continuation of Sem I

NPN 7105 Paediatric Nursing (Contd.)**(1-0-1=2)**

Prerequisites: Semester – I course

This course is a Continuation of Sem I

ICM 101 Islamic Culture and Medicine**(3-0-0=3)**

Prerequisites: None

This course is designed to develop a better understanding of Islamic belief and its application in life besides focusing on current modern medical and science issues in Islam. The broad goal of this course is to enable the students to have better understanding of Islamic medical issues and appreciation of Islam as a way of life, its impact in the field of medicine, the contribution of Islam to medical in general, and to sciences in particular.

NET 7102 Nursing Ethics**(2-0-0=2)**

Prerequisites: Semester I courses

This course explores the fundamental principles of nursing ethics and encourages reflection on and discussion about personal and professional values within nursing practice contexts. Students will analyze some of the most common and difficult ethical dilemmas faced by nurses. These dilemmas will be analyzed with consideration to ethical reasoning and decision-making.

Year 2: Semester I**NNE 7206 Nursing Education****(2-1-0=3)**

Prerequisites: Year 1 Sem I & II courses

This course includes the philosophy and objectives of nursing education, concepts and principles of curriculum development, evaluation and guidance and counseling including methods of teaching.

NCH 7209 Community Health Nursing**(2-1-2=5)**

Prerequisites: Year 1 Sem I & II courses

Community health nursing (including sociology) course focuses on health of population in the social environment. It includes health care policies, strategies of health promotion, epidemiological concepts and sociological theories. Professional, legal/ ethical, economical, cultural, environmental and issues related to power and communication along with organizational change relevant to community health nursing will be examined.

NRS 7205 Nursing Research Methodology & Statistics**(2-0-0=2)**

Prerequisites: Year 1 Sem I & II courses

This course is designed to assist the students to acquire an understanding of the research methodology and statistics and its application to nursing. It will further enable the students to critique research studies and recognize the value of utilizing evidence based nursing practice to improve quality of care.

NSO 7203 Sociology**(3-0-0=3)**

Prerequisites: Year 1, Semester I & II courses

This course covers major sociological themes which are relevant to nursing and health care. Topics include key areas which form the context of everyday life for both nurses and patients, exploring families, work and organizations, religion and belief systems, social class and disadvantaged groups. Various aspects of healthcare provision, including healthcare policy, organizational change, issues of power and communication, the nursing work and partnerships in providing care in the community are emphasized. Some of the common sociological theories are also introduced throughout the course.

NLM 7205 Nursing Leadership and Management**(2-0-1=3)**

Prerequisites: Year 1 Sem I & II courses

This course explores the organizational strategies, leadership theories and societal trends with implications for decision-making in health care. Introduction to management skills needed by professional nurses with clinical application in diverse settings is also provided.

Year 2: Semester II

NNE 7206 Nursing Education (Contd.) (1-2-0=3)

Prerequisites: Year 2 Sem I course

This course is a Continuation of Sem I

NLM 7205 Nursing Leadership and Management (Contd.) (1-0-1=2)

Prerequisites: Year 2 Sem I course

This course is a Continuation of Sem I

NCH 7209 Community Health Nursing (Contd.) (2-0-2=4)

Prerequisites: Year 2 Sem I course

This course is a Continuation of Sem I

NPT 7202 Professional Issues and Trends in Nursing (2-0-0=2)

Prerequisites: Year 1 Sem I & II courses

The course introduces students to the status of nursing in the UAE health care system. Perspectives to be explored will include social, political, organizational, and legal/ethical factors. The continuing debate about the essence of nursing including professional issues will be examined. Current issues will be critically analyzed in relation to their influence on the nursing profession and nursing practice.

NRS 7205 Nursing Research Methodology & Statistics (Contd.) (1-2-0=3)

Prerequisites: Year 2 Sem I course

This course is a Continuation of Sem I and includes group research project activity.

CSK 101 Computer Skills (3- 0-0=3)

Prerequisites: None

The goal of this course is to teach basic computer skills necessary in an academic environment including use of the internet and other computer programs for research and data analysis.

17. Examination and Grading System

17.1 Examination Committee

The Examination Committee consists of the Chief Academic Officer as Chairperson, Associate Dean, Examinations as Secretary, President, as special Invitee, Deans, Associate Deans, and Department Chairpersons of all the Colleges as Members. The Examination Committee advises the University on Examination Policies and determines whether the general requirements for promotion are met by the students. It shall also be responsible for the approval and announcement of examination results, actions for Misconduct / Malpractice during examinations.

17.2 Time of Examinations

17.2.1 Continuous Assessment

All continuous assessments (CA) will be held within the semester / academic period. The respective college Dean will notify the student about the exact schedule of CA including the dates, times and venue.

17.2.2 Comprehensive Examinations

Comprehensive assessments are the final assessments for a course/module or combination of courses/modules before a student is awarded a grade for that course/module or combination of courses/modules. They test the total content of the relevant courses. The office of Examinations has the responsibility of conducting the Comprehensive Examinations. These examinations will be held at the end of a semester or end of the academic year, and generally fall within the months of January/February and May/June/July.

17.3 Attendance

- The minimum attendance at scheduled teaching learning in each course is set at 75%, and no further exemption is given for any reason including medical problems and personal or family reasons.
- A student must have a minimum of 75% attendance in each course/module at the time of each continuous assessment and end year / semester examinations.
- If the attendance for any course/module in the semester/year is less than 60%, the student shall not be allowed to take the examination at the end of the semester/year in that course/module and will be required to repeat the whole semester/year for that particular course.
- Students with less than 75% attendance in a particular course/module but more than 60% attendance at the end of the semester/year will not be eligible to appear for the End Semester examination/End year examination but will be given an opportunity to compensate for the absence before the Repeat 1 examination in the form of a remedial process/examinations.
- The Chairperson and faculty members of each department ensure compliance with the rules of attendance, through daily attendance and monitoring procedures. and update attendance on a daily basis on the university management system (UMS)
- Leave officially sanctioned, with prior written approval, for students officially representing the University, will be exempted from being counted as absence. Such approval of leave allows only absence from scheduled teaching learning sessions and NOT examinations. Any examination missed during such a period of absence will NOT be repeated or compensated except under regulations that apply to all other students.

- Granting of leave on prior written request for reasons such as sickness or other personal matters does not make the student eligible for attendance. All types of leave availed by the student in an academic year should not exceed 25% of teaching hours
- In any case no student will be allowed to appear for the comprehensive examination if the attendance is less than 75% in any course/module.

NOTE: Attendance will be calculated from the date of commencement of the Semester and not from the date of registration of the student. If any student is unable to register on the day of commencement of the Semester due to any reason, he/she should inform the Dean of the College immediately, giving reasons for the delay.

For Medical and Nursing programs, the clinical clerkship attendance requirement for each rotation is 90% and 95% respectively.

17.4 Examination Methodology

At RAKMHSU, the examination/assessment methodology is to assess the student continuously throughout the duration of the course. Sixty percent (50% in RAKCOMS Clinical Courses) weightage is given to various assessments spread throughout the course which are grouped under “Continuous Assessment”. The other forty percent (50% in RAKCOMS Clinical Courses) weightage is given to the Comprehensive Examinations held at the end of the course.

17.5 Continuous Assessment

Continuous assessment contributes certain percentage of weightage to the final grades for the course. The methodology for conducting various continuous assessment components are as follows:

- Continuous Assessment Test:
- Multiple Choice Questions (MCQ)
- Restricted Response Essays (RRE)
- Written Test
- Self Director Learning (SDL)
- Quizzes
- Assignment / Presentation
- Team Based Learning (TBL)
- Objective Structured Practical Examination (OSPE), Objective Structured Clinical Examination (OSCE) and End Semester Practical Examination (ESPE)
- Mini CEX
- Log books / Lab Records / Case presentations / Case reviews

17.5.1 Makeup Continuous Assessment

Students who have less continuous assessment / or were absent for continuous assessment can improve their score by attending “**Makeup Continuous Assessment**” examinations held during break before the end semester/year examinations. The score achieved by the student will replace the lowest score achieved/absent score at previous continuous assessment examination. The makeup continuous assessment components to be assessed is as per the discretion of the Dean of the respective colleges.

17.6 Comprehensive Examination

The Comprehensive Examination will be the final examination for the course or combination of courses. It will be conducted by the Office of Examinations.

The comprehensive Examination will contribute 40% (50% RAKCOMS Clinical Courses) of the overall assessment for the course or course combination.

The Eligibility to appear for the Annual / Semester Comprehensive Examination:

- A minimum of 75% of attendance in each course (Theory + Practical)
- A minimum of 75% attendance in clinical rotations (BSN Nursing 95% and MBBS Program 90%)
- A minimum score of 40% in their continuous assessments.

Any student, who does not fulfill the above requirement, will not be eligible to appear for the Semester / Annual Comprehensive Examination.

All the students who appear and fail in the annual/semester comprehensive examination in the first attempt will have an opportunity to appear for Repeat 1 examination, within 4 weeks after the declaration of the results. There will be a remedial examination before the Repeat to improve their Continuous Assessment. If the student who fails even at Repeat 1 examination, will have Remedial 2 examination weeks after repeat 1 and will appear for Repeat 2 examination within 4 weeks of declaration of Repeat 1 examination results. All courses in the respective academic year needs to be passed before progression to the next academic year and is applicable to all the courses involving all the programs.

Any student, who does not fulfill the above requirement, will not be eligible to appear for the Semester / Annual Comprehensive Examination.

The Comprehensive Examinations will include

- A theory component and a practical component. The practical component will be for courses with practical or clinical credit hours. The theory component will include MCQ
- Where a course has practical/clinical credit hours, a practical component which will be tested with objective structured practical examination (OSPE), objective structured clinical examination (OSCE) or practical/clinical examination.

17.6.1 Weightage for each component

	No. of theory credits	No. of MCQ'S for CA and duration of examination	No. of MCQ'S for Comprehensive Examination and duration of examination
1	1	25; 30 min	50; 55 min
2	2	35; 40 min	75; 80 min
3	3 and more	50; 55 min	100; 105 min
4	Module	35; 40 min	100; 105 min

17.7 Students NOT Eligible for Comprehensive Examinations

Students may be ineligible for the Comprehensive Examination due to either or both of the following

- i. Those who score less than 40% in their continuous assessments
- ii. Those who have less than 75% attendance in the course/module for the Comprehensive Examination
- iii. Those who have less than 75% attendance in Dental clinical rotations, BSN -95% attendance and MBBS 90% attendance)

Students with an attendance of less than 75% irrespective of their continuous assessment score, may proceed to revision classes and Remedial examinations or compensation by attending clinical rotation after the end year examinations and before the repeat 1 examinations.

Students with less than 60% attendance for any course / module will be required to repeat the whole semester / year for that particular course/module, subject to University guidelines (Ref 19.3)

17.8 Remedial Examinations

Students, who were not eligible for Comprehensive Examination may, provided they have an attendance of over 60% for any course/module, make themselves eligible for Repeat 1 examination by undergoing a **remedial process** that comprises

- (a) Attending revision classes / clinical rotations AND
- (b) Appearing for Remedial 1 examination before the Repeat 1 examination.

The remedial examination will be conducted within 3 weeks of declaration of the results of comprehensive examination.

- (c) If the student fails at Repeat 1 examination, there will be a Remedial 2 examination, within 3 weeks after the declaration of Repeat 1 examination results.

The remedial 1 examination will consist of theory component similar to Continuous Assessment and practical component similar to continuous assessment practical examination. The content will be the total syllabus of the course or combination of courses. Score of the two components of the Remedial examination may be substituted for one continuous assessment and one practical score respectively. Students achieving the minimum score for continuous assessment after substitution will be eligible for Repeat 1 examination. There will be Remedial 2 examination before the Repeat 2 examination, which will be 3 weeks after the declaration of Repeat 1 examination results.

There is no remedial or repeat session for quiz, TBL and assignments.

Any student who fails to achieve a minimum of 40% score in the continuous assessment in spite of the remedial examination will not be allowed to appear for repeat 1/ repeat 2 examination. Student who is not eligible even after Remedial 2 has to repeat the whole semester / year for that particular course / module, subject to payment of fees as per university guidelines.

17.9 Repeat Examinations

Following the Comprehensive Examinations, two more examination in the same format may be conducted, if required, by the University. This is the Repeat 1 & Repeat 2 Examination which will be held within four weeks after the declaration of the results of the Comprehensive Examinations and four weeks after declaration of Repeat 1 examination, respectively.

Eligibility for Repeat 1 Examinations

- Any student who appeared for the Comprehensive Examination but was unsuccessful
- Any student who was not eligible to appear for the Comprehensive Examination but has successfully undergone the remedial process and has become eligible in terms of continuous assessment score and attendance.

Eligibility for Repeat 2 Examinations

- Any student who appeared for the Repeat 1 Examination but was unsuccessful
- Any student due to unforeseen circumstances / emergency conditions was eligible for Repeat 1 examinations but could not appear.

17.10 Progression through the Program

At the end of academic year the progression criteria is applied based on the performance and grades received by the students. Progression from odd semester to even semester is automatic.

Annual system (MBBS / BDS / BSN and RNBSN)

The examination office will conduct Repeat 1 & Repeat 2 examinations during the summer vacation after the comprehensive examination within four-six weeks after declaration of result of the Comprehensive examination & Repeat 1 examinations respectively.

- The students who clear all the modules / courses in Comprehensive Examination/ Repeat examination will be promoted to next academic year.
- Kindly note that from the academic year starting September 2018, students of all the programs namely MBBS/BDS/BPHARM/BSN/RNBSN/MSN/Masters Program in pharmacy will finish the Repeat 1 & Repeat 2 examinations before the completion of the academic year (i.e. by end of August). The students will have to pass all the courses for that academic year by the end of Repeat Examinations before progression to the next academic year.
- Failure to clear all the courses by the end of the academic year even after Repeat 1 and Repeat 2 Examinations, the student will have to re-register for the failed courses in the next academic year, and will NOT be **promoted to the next academic year**.

Semester System (B.Pharm)

The examination office will conduct Repeat 1 & Repeat 2 Examinations within four-six weeks after declaration of result of the end semester comprehensive examination & Repeat 1 Examinations respectively.

- The students who clear all the courses in Comprehensive Examination / Repeat examination will be promoted to next academic year.
- Kindly note that from the academic year starting September 2018, students of BPharm/Masters program in Pharmacy will finish the repeat examinations for both odd and even (fall / spring semesters) before the completion of the academic year (i.e. by end of August). The students will have to pass all the courses for that academic year (both fall and spring semesters) by the end of repeat examinations before progression to the next academic year.
- Failure to clear all the courses by the end of the academic year even after repeat examinations, the student will have to Re-register for the failed courses in the next academic year, and will NOT be promoted to **the next academic year**.

However, depending on the availability of the seats and the improvement shown by the students, a committee will be formed to recommend a student for the readmission to enable the student to repeat the entire course/module in which he/she has failed.

Students who had disciplinary proceedings against them, who had attendance deficit and who have been fee defaulters are NOT eligible for readmission.

Students repeating the course/year after readmission in any year will be given all the chances (**comprehensive examination and repeat**) at the end of the year to pass the course. If any student who has repeated the course and fails in the comprehensive examinations and repeat examinations, he/she shall be academically dismissed once for all.

The above guidelines are applicable for all the courses in all the years of all the programs.

Students who were not eligible to write comprehensive / repeat examinations due to reason(s) stated under 19.3, such students will have to repeat such module(s)/course(s) in the next academic year and they will not be promoted to next higher class.

Exceptions to carrying over failed courses to the following year:

The above progression criteria will not apply to General Education courses; these courses will not affect progression provided the student obtains a pass grade within the following academic year. Student should have completed all the courses including general education course before they could be promoted to clinical clerkship year MBBS Year 3 / BDS year 4)

17.11 Academic Dismissal

Academic dismissal is the involuntary separation of a student from the University, which takes place under the following situations:

- (A) When a student does not obtain pass grades for a course after retaking the course. Such a failure to obtain a pass in the course on the second time a student takes it may be due to:
 - (i) Inadequate grades at the examinations even at the second time
 - (ii) Ineligibility to appear for the Comprehensive and Repeat examinations at the second time either due to low continuous assessment scores, lack of attendance or both
- (B) When a student is unable to complete the program of study within the maximum duration of study specified for that program.

17.12 Appeal Procedure to Revoke Academic Dismissal

A student may appeal for his / her Academic Dismissal by submitting a written request within five working days from the time the Academic Dismissal letter was signed and mailed by the Office of Examinations.

This written request must state the basis for appeal that would warrant modification of the student's status. The Office of Examinations may call for an Examination Committee Meeting who in turn shall review and reevaluate the matter within 5 working days after receipt of the student's request. The Office of Examinations will communicate the final decision to the student. During the interim period of appeal after the dismissal, the student is prohibited from attending any activity in the College/University.

17.13 Hall Ticket

Hall ticket is the official document that permits a student to appear for Comprehensive and Repeat examinations. The following rules are applicable regarding hall tickets:

- The Office of Examinations issues the Hall Tickets before the commencement of the examination to all the students, for the courses for which the student is eligible to write the exams.

- Due to attendance shortage or poor academic performance in continuous assessment, the student might be barred from writing exams of some courses, and in such a case the ineligibility will be stated on the Hall Ticket (or the courses will not be printed on the Hall Ticket).
- Hall Tickets must be brought to the examination hall and presented to the invigilator prior to the examination without which a student will not be allowed to appear for examination.
- No faxed copies/photocopies/scanned copies in multimedia of the hall tickets will be accepted by the faculty.
- A duplicate Hall Ticket will be issued only by the Office of Examinations upon payment of required fee.

17.14 Dishonesty in Examinations

All academic work and materials submitted for assessment must be the work of the student. Cheating is not limited to copying from others' work and giving unauthorized assistance, but it also includes the use of devices or procedures for the purpose of achieving false scores in examinations. Students are prohibited from submitting any material prepared by or purchased from another person or company.

Students are expected to take themselves seriously and act responsibly. If the student violates the rules of the examination, it will result in penalty ranging from a warning to dismissal from the University.

A faculty member who notices the cheating shall report the incident with full particulars to the respective Chief Superintendent, who will report it to the Office of Examinations. A Disciplinary Committee will be constituted by the President, to review the case and recommend the penalty to the President. The decision of the President will be final.

All the examination halls are under surveillance during the exams.

17.15 Withdrawals

If a student with academic deficiency desires a withdrawal, he/she may apply for the same using the withdrawal form available in the Office of Examinations.

If a student withdraws without any written permission or absconds, he/she will not be eligible to get any recommendation letter or NO Objection Certificate from the University later.

17.16 Postponement of Study/Leave of Absence

If a student wishes to postpone his/her study for any reason, she/he must submit a request letter to the Office of Examinations through Dean of respective college. The period of postponement will be up to a maximum of one academic year during the entire period of study.

- Leave of absence for personal and non-medical reasons is processed by the Dean of the respective Colleges upon receipt of a written request from the student.
- Leave of absence may be granted to students, who are in good academic standing (GPA > 2.0).
- For medical leave of absence, students must proceed through the Dean of the College to the Office of Examinations.
- Granting of medical leave will not entitle the student to appear for any exam if the attendance is less than 75% (90% in clinical component for medical program & 95% in clinical clerkship in Nursing program).

17.17 Course Grading System

Students shall be assigned grades (letters) for each course in which they are examined. The letter reflects the student's achievement in the course. The minimum grade for passing a course is letter "C". The grades and their grade point equivalents are given in the table below.

Description	Grade	Grade Point Equivalent	Percentage
Outstanding	A+	4.0	95-100
Excellent	A	3.75	90-94
Very Good	B+	3.5	85-89
Good	B	3.0	80-84
Satisfactory	C+	2.5	75-79
Pass	C	2.0	70-74
Fail	F	Below 2	Below 70

17.18 Grade Point Average

Grade Point Average "GPA" reflects the student's achievements in an academic year; while Cumulative Grade Point Average "CGPA" reflects the student's achievements in the entire program.

The GPA is calculated by multiplying the grade of each course by the number of its credit hours, and dividing the total by the number of total credit hours taken during the semester.

The CGPA is calculated in a similar manner as the GPA but takes into account all courses a student has taken during the entire program.

Both GPA and CGPA are rounded to the nearest two decimal units.

However, some courses within any program may be denoted as not contributing to the GPA and CGPA (see below)

Example of GPA calculation:

Course	No. of Credits	Grade	Grade Points
Anatomy	3	4	12
Biochemistry	3	4	12
Physiology	3	2	6
Pharmacology	3	3	9
Pathology	3	3	9
Total	15	16	48

$$\text{GPA} = \frac{(3 \times 4 + 3 \times 4 + 3 \times 2 + 3 \times 3 + 3 \times 3)}{3 + 3 + 3 + 3 + 3} = \frac{48}{15} = 3.20$$

General Education courses will be assessed, evaluated and graded as any other course, but their grade points will not be taken into consideration for calculating the GPA or CGPA.

In MBBS Years 1 and 2, Objective Structured Clinical Examination (OSCE), which will be evaluated and graded, will not contribute towards GPA and CGPA.

17.18.1 Grade Appeals

Students may view their answer scripts of the Comprehensive and Repeat examinations by applying in writing to the Office of Examinations within 5 days of declaration of results. This will be done in the Examination Office in the presence of an authorized person from that Office.

A student may appeal against a grade of the examinations within five working days from the announcement of the results of the end-semester / end year / Repeat examinations by paying the appropriate fees for reevaluation of the answer scripts. A written request together with the receipt of payment should be forwarded to the Office of Examinations. The Office of the Examination shall make arrangements with the respective Chairperson for reevaluation. If necessary, an Examination Committee may be called to discuss a change of Grade. Any change of grade will be informed to the student by the Office of Examinations.

17.19 Announcing of Grades

The Grades will be announced as per the dates mentioned in the Academic Calendar.

Students wishing to receive their grades electronically may submit a request to the Office of Examinations and it will be done without any extra cost. Students are required to fill in the appropriate form and hand it over personally to the examinations Office for this purpose.

Request for results over the telephone will NOT be entertained.

17.20 Graduation

To be eligible for graduation, the student must satisfy each of the following requirements:

- Must have satisfactorily full filled all the academic requirements including attendance.
- Must have obtained pass grades in all courses of the program with minimum CGPA of 2.00.
- At least 50% of total credits required for the program must have been earned at RAKMHSU.
- The student becomes a degree candidate when the program Dean on the advice of Chairperson, recommends him/her to the Executive Council for conferring the appropriate degree.
- Students must have met all financial obligations to the University within the time specified. The certificate for graduation and transcripts will be withheld if there are any dues to the university.
- In order to qualify for graduation the student must earn the following credits for the respective programs:

MBBS	BDS	B Pharm	BSN	RNBSN Bridge
175	172	133	143	72

These credits are inclusive of General Education courses.

17.21 Bachelor Degree Academic Honors

Academic Honoring of the Bachelor Degree is classified as follows:

- CGPA 3.75 or higher : Pass with Distinction
- CGPA 3.0 - 3.74 : Pass with Merit
- CGPA 2.0 - 2.99 : Pass

17.22 Academic Awards

Academic performance will be judged based on the cumulative GPA for the courses during the academic year, excluding General Education and any other courses not included in CGPA for the program.

In the event of a tie the positions will be decided by raw scores obtained by the students, participation in co-curricular activities such as scientific conferences, workshops etc., attendance and extra-curricular activities in that order. To be placed on the Students' Academic Honor List, a student must:

- Have passed all courses offered for the academic year including general education at the main Comprehensive Examinations.
- Have at least a CGPA of 3.5 or higher for every academic year during the program.
- Have no disciplinary action against him/her/for the last two years.

17.22.1 Annual Academic Honors

Each academic year, The University awards honors to students with the best academic achievement during that academic year. The top three performers in each of the years in all undergraduate programs will be awarded the honors. Award is given at the University Awards day.

17.22.2 President's Merit List

Students who have successfully completed the undergraduate program with Distinction (CGPA of 3.75 and above) are listed in the President's Merit list. Award is given at the University convocation.

17.22.3 Ruler's Gold Medal

Ruler's Gold Medal is given for Best Academic Performance and Best Outgoing Student with highest CGPA of that batch. Award is given at the University convocation.

17.23 Transcripts

A transcript is a copy of a student's permanent academic record, duly certified by the Office of Examinations, and bearing the seal of the University and is issued at the completion of program. It contains the following information:

- A listing of all courses registered and the grades achieved.
- A statement of the degree attained including the date of graduation.

Student may request transcripts of their academic record at the Office of Examinations upon written request approved by the Dean of the respective College, along with the prescribed fee.

17.24 Award of Degree

Degree certificates in English and Arabic shall be processed by the Office of Examinations. To avail degree certificate, the student must satisfy graduation requirements. Degree certificates shall be issued during Convocation which will be held annually.

Section 17.25 - 17.36

Students are advised to refer the respective section for rules pertaining to the Examination guidelines of their specific program.

- Section I** - Applicable to MBBS Program
- Section II** - Applicable to BDS Program
- Section III** - Applicable to B.Pharm Program
- Section IV** - Applicable to BSN /RNBSN

Course(s) - wherever stated in this catalog also refers to module(s).

Section I Applicable to MBBS Program

Part A - Applicable for Pre-Clerkship Courses of MBBS Years I & II

Assessment Methodologies

The curriculum for the Pre- Clerkship courses of first two years of MBBS program is an Integrated Modular Curriculum. The basic sciences courses are integrated into various modules and each module is considered equivalent to a course with credits

Year 1 consists of 4 modules.

Year 2 consists of 4 modules.

There is both Continuous Assessment and Comprehensive Examinations for each module. Both components are applied for assessment of theory and practical learning.

Continuous assessment is performed throughout the academic year and the Comprehensive Examination is conducted at the end of the academic year. Combination of the grades achieved by the students in these components gives the final grade that the students achieve at the end of each year. Progression along the module is decided at the end of each academic year.

Continuous assessment contributes 60% and Comprehensive Examination contributes 40% towards the final grades (Both for theory and practical) and these components have to be passed together. In case of failure in comprehensive examination, both theory and practical exams have to be repeated in repeat examinations.

Continuous assessment exams are conducted by the basic sciences departments of RAKCOMS

17.25 Continuous Assessment

17.25.1 Theory

There will be two theory examinations in each module. One is at the middle of each module called the Mid- Module Exam and another at the end of each module called the End Module Exam. The examination is of MCQ type.

An average of the grades obtained in these two Continuous Assessment Test will be calculated and this will contribute 40% to the total theory continuous assessment.

17.25.2 Objective Structured Practical Examination (OSPE)

There will be one OSPE at the end of each module. It will contribute 30% to the total continuous assessment.

17.25.3 Team based learning (TBL)

TBL will be scheduled at frequent intervals throughout the module.

Each TBL consists of Individual readiness assurance test (I - RAT) and Team readiness assurance test (T- RAT). Weightage for I - RAT is 60% and T- RAT is 40%, to calculate the final grade achieved by each student for a particular TBL.

Average of all TBL's conducted in each module is taken and they will contribute 20% to the total continuous assessment.

17.25.4 Assignments

One integrated assignment per semester is given and the scores are equally distributed to both modules in the semester. It will contribute 10% to the total continuous assessment.

Distribution of Continuous Assessment

Assessment Component	Percentage of weightage
Theory	40%
OSPE	30%
TBL	20%
Assignments	10%
Total	100%

17.25.5 Clinical Skills:

Continuous assessment in clinical skills is of Objective Structured Clinical Examination (OSCE) and will be conducted one for each semester. There is no comprehensive examination. However, OSCE will be assessed and graded like in any other course but the grade points will not be included in the GPA of the semester and overall CGPA.

Part B - Applicable to MBBS Program, Years 3, 4 and 5

17.26 Assessment Methodologies for MBBS Years 3, 4 and 5

Assessment in the clinical years (Years 3, 4 and 5) of the MBBS program while retaining the general principles of the assessment system of the University caters to the teaching and clinical rotations which form the basis of learning in these years.

There is both continuous assessment and Comprehensive Examinations. Each of these two components is applied to both theory and clinical.

Continuous assessment occurs throughout the academic year and the Comprehensive Examination is conducted at the end of the academic year. Combination of these components gives the grades the student achieves at the end of the year. Progression along the course is decided at the end of each academic year.

Continuous assessment and Comprehensive Examination will contribute 50% each to the final scores for theory/clinical separately and these components have to be passed separately. In case of failure in comprehensive exams, only the failed component has to be repeated in repeat examinations.

17.27 Continuous Assessment

17.27.1 Continuous Assessment - Theory

Continuous Assessment Test

- There will be two theory examinations, at approximately 12 week intervals throughout the teaching period of the Academic Year. These will be in the same format as the Final examination. The dates shall be announced by the University / Office of the Dean.
- The average scores of the two Continuous Assessment Test will contribute 70% to the total theory continuous assessment.
- Continuous Assessment comprises of multiple choice questions (MCQ) only. The number of questions will be related to the theory credit hours of the respective courses.
- Continuous Assessments will be conducted on consecutive days without any gap between examinations for different courses.
- In each of the two Continuous Assessments, students will be examined on only part of the content of the course.
1st Continuous Assessment - from beginning of year up to 1st assessment
2nd Continuous Assessment - from 1st assessment up to 2nd assessment
- The Deans will notify the students about the schedule of the Continuous Assessment - including the date, time and venue.

Team based learning (TBL)

TBL will be scheduled at frequent intervals throughout the courses.

Each TBL consists of Individual readiness assurance test (I - RAT) and Team readiness assurance test (T- RAT). to calculate the final grade achieved by each student for a particular TBL, 60% weightage for I-RAT & 40% weightage for T-RAT is given.

Average of all TBL's conducted in each course is taken and they will contribute 30% to the total continuous assessment.

17.27.2 Continuous Assessment - Clinical

Continuous assessment in Clinical Clerkship Rotation will be carried out for each course. Where more than one clinical posting is scheduled under one course, assessment will be an overall one, but one which incorporates elements from each posting. Generally, in each course, assessment will be under the components mentioned below.

Mini CEX

- Students are required to conduct a medical interview and perform physical examination in a hospital setting under direct supervision of the clinical examiner. Following this the examiners may question the student on their findings and conclusions. There will also be OSCE during the end rotation examination.
- Mini CEX and OSCE will contribute 70% to the clinical component of continuous assessment

Log book, Case Review and Case presentations

- Each of these components will contribute 10% to clinical continuous assessment, adding up to 30% of clinical continuous assessment
- Requirement for each clinical clerkship may be different and will be informed to the students at the beginning of the rotation.

17.27.3 Completion of Clinical Clerkship

Completion of a clinical clerkship is based on satisfactory attendance, performance at Mini CEX and fulfillment of the Log Book, Case Review and Case Presentation requirements. If attendance is less than 90%, but not less than 75%, the student will not be eligible to appear for end rotation Mini CEX exam till he/she compensates by attending clinical rotations during university breaks (winter break and revision break etc.). If the attendance is less than 75% the student will have to repeat the whole year for both theory and clinical rotation component of such course/s.

Weightage Distribution of Clinical Assessment

Assessment Component	Percentage of weightage
Mini CEX	70%
Log book	10%
Case Review	10%
Case presentations	10%
Total	100%

17.28 Comprehensive Examination

The Comprehensive Examination will be the final examination for the course for the academic year. It will be conducted by the Office of Examinations.

Eligibility for the Comprehensive Examination:

To appear for the Comprehensive Examination a student must have both the following requirements:

- A minimum score of 40% in the continuous assessment in each component
- A minimum attendance of 75% for the course during the semester
- A minimum attendance of 75% for Dental clinical courses, 90% for Medical clinical rotations and 95% for Nursing program.

The Comprehensive Examinations will include a theory component and a clinical/practical component. The theory component will include MCQ while the clinical component will be tested with objective structured clinical examination (OSCE/OSPE).

The number of question items for theory will be based on the theory credit hours.

The number of question items for OSCE/OSPE will be generally proportionate to the clinical credit hours for the course and will be decided by the Dean, RAKCOMS. OSCE/OSPE for several courses may be conducted simultaneously in one circuit.

17.28.1 Pass grade in Clinical Courses

A student is expected to score a minimum of GPA 2.00 in each of the components separately in theory and Clinical (OSCE). A student who fails in theory or OSCE will appear for the respective component only for Repeat examinations. Continuous assessment and comprehensive exams will have equal contributions (50% of each) towards the overall grading for the course.

17.29 IFOM: (International Foundation of Medicine)

IFOM (International Foundation of Medicine) examination for basic sciences & clinical sciences will be held at the end of year II and year V of the MBBS program respectively for all students enrolling for the MBBS program starting September 2019, as RAKMHSU is now approved by MBME USA. IFOM will be implemented for the MBBS batch taking admission starting academic year September 2019 and will be mandatory for all the students to undertake both the components of these examinations (Basic and Clinical Components) at the end of MBBS Year II and V respectively. For all other students/interns/ex-students, IFOM will be held twice a year mainly in December /June at Institutional subsidized pricing, depending upon the student's enrollment.

Section II

Applicable to BDS Program

17.30.1 Continuous Assessments

For courses assessed over two semesters

There will be two Continuous Assessments in theory held during designated periods within the two semesters (one academic year). The average scores of the two Continuous Assessment Test will contribute to the total theory continuous assessment.

For courses assessed after one semester

There will be one Continuous Assessment in theory held during designated periods within the semester.

- The format of these examinations will be the same as that of the theory Comprehensive Examination and will include multiple choice questions (MCQ). In each of the Continuous Assessments, students will be examined on only that part of the content which has been taught until that period of the course.
- The Continuous Assessment will be conducted on consecutive days without any gap between examinations for different courses.
- The Dean of the College will notify the students about the schedule of the Continuous Assessment and Makeup Continuous Assessment - including the date, time, and venue.
- During Continuous Assessments, one or more "Observers" may be deputed by the Office of the Examination to oversee the conduct of the examinations.

17.30.2 Quizzes

- Quiz is a mini written assessment testing a small area/topic in the course. The objectives of conducting the Quizzes are to motivate the students to learn and assess the level of knowledge on a continuous basis, and encourage analytical and critical thinking ability of students on selected topics.
- Quizzes may comprise of any one or a combination of MCQ, RRE and problem solving exercises.
- Quiz is to be conducted during the regular class hour for that particular course, with prior announcement

For courses assessed over two semesters

- There will be a minimum of two quizzes in the academic year. The average scores of the two Quizzes will contribute to the total continuous assessment.

For courses assessed after one semester

- There will be a minimum of one quiz in the semester

17.30.3 Assignments

- Assignments may take the form of written reports, presentations, projects, group work relevant to the course, critique, analysis & problem solving and can replace TBL/PBL as per the nature of the course.
- Assignments to be conducted at the discretion of the faculty.
- The faculty shall fix the precise date of submission and once the date is fixed, the faculty must maintain the deadline.
- Different topics can be given to different students or different group of students. The topics for the assignments will be announced at least 2 weeks in advance.
- The faculty shall provide the detailed guidelines to the students on the format of the assignment.

17.30.4 Practical continuous assessment in General Education, Basic and Medical Sciences

For courses assessed over two semesters

For courses with practical credit hours, two assessments in practical will be held during the academic year. The average scores of two practical assessments will contribute to the total continuous assessment.

For courses assessed after one semester

For courses with practical credit hours, one assessment in practical will be held during the semester.

- They may be timed to coincide with the day of Continuous Assessments in theory. Alternatively the Department may hold them at other times but at approximately equal intervals. In this case, the practical assessments will take place during the practical periods allocated in the time table
- Continuous assessment in practical will be in the form of objective structured practical examination (OSPE) or practical examination according to the nature of the course.
- The number of question items will depend on the type of examination and the course. In general, an examination duration of approximately half that of the Comprehensive Examination practical component is suggested.

Course Assessment/Grading System for General Education and Basic Sciences Courses with Practical Components

Continuous Assessment	=	60 %	Comprehensive Examination	=	40 %
Continuous assessment		50%	Theory Examination		70%
Quizzes/ TBL/ PBL		20%	Practical/OSPE		30%
Practical/OSPE		30%			

Course Assessment/Grading System for General Education and Basic Sciences Courses Without Practical Components

Continuous Assessment	=	60 %	Comprehensive Examination	=	40 %
Continuous assessment		70%	Theory Examination		100%
Quizzes/ TBL/PBL		30%			

17.30.5 Protocols for Evaluation of Students' Pre-Clinical/Clinical Competencies

Undergraduate pre-clinical/clinical training in dentistry at the RAK College of Dental Sciences is given in the dental labs and dental clinics. Pre-clinical competency is the ability essential for the dental student to begin clinical dental practice. Competency includes knowledge, experience, critical thinking and problem-solving skills; and technical and procedural skills.

- There is Continuous Assessment and Comprehensive Practical/Clinical Examinations. Continuous assessment occurs throughout the semester /academic year for semester/ annual courses. Comprehensive Practical/ OSPE/ OSCE/ Clinical Examination is conducted at the end of the semester for semester courses and end of academic year for annual courses. Combination of these components gives the final grades to the students.
- Continuous assessment in practical will be in the form of objective structured practical examination (OSPE) or practical examination according to the nature of the course.
- Course Assessment/Grading System for Preclinical and Clinical Courses: Practical/ OSPE/ OSCE/ Clinical Components will contribute 50%, remaining 50% is allocated for Theory Components.

17.30.6 Assessment Methodology in Pre Clinical Courses of BDS

- Steps of each procedure are described and practiced by the student during the pre-clinical training. These steps are detailed in the evaluation form to be filled for each procedure and these will be assessed and marked by the mentor / faculty, before the student proceeds to the next step.
- The pre-clinical skill and treatment plans are presented by students at seminars and discussed as part of the assessment.
- To ensure that the student master the various pre-clinical procedures, carried out in general dental labs, competency tests in all specialties are administered periodically.

For courses assessed over two semesters

- For courses with practical credit hours, three assessments in practical will be held during the academic year. The average of three practical / OSPE assessments will contribute 50% to the total continuous assessment.

For courses assessed after one semester

- For courses with practical credit hours, one assessment in practical / OSPE will be held during the semester.

Course Assessment/Grading System for Preclinical Courses

Continuous Assessment	=	60%	Comprehensive Examination	=	40 %
Continuous assessment		40%	Theory Exam		50 %
Quizzes/TBL/PBL		10%	Practical/OSPE		50 %
Practical/OSPE		50%			

17.30.7 Assessment Methodology for Clinical Components of BDS Program

Clinical Examination Methodology

- Students' competency on clinical skills in the various specialties is assessed on a specially designed Clinical examination Assessment criteria" based on a 3-point scale; Excellent, Satisfactory and Unsatisfactory.
- Student must obtain minimum 50% score in each section to pass the clinical examination.
- Students failing to achieve the competency will be provided an opportunity to reappear in clinical examination within 2 weeks period.
- The individual course includes course description for clinical skills, requirements, clinical work and clinical examination assessment criteria with score distribution in each section
- Clinical competency examination is conducted in all clinical disciplines of dentistry, as given in the Clinical Manual - Policies, Procedures & Assessment Criteria for Clinical Competency.
- The Clinical Requirements for each course may be different and are mentioned in course syllabus and clinical manual

17.30.8 Clinical Continuous Assessment

- Continuous assessment of clinical components will be in the form of Objective Structured clinical Examination (OSCE) and Clinical Examination.
- Clinical examination assess the skills of the students in carrying out treatment and other relevant procedures. Each of these clinical procedures will be evaluated using the designated clinical competency forms as given in the clinical manual.

For courses assessed over two semesters

- To assess the clinical competency, there will be three assessment during the whole academic year.
- First Clinical Assessment for the clinical component will be in form of OSCE. They may be timed to coincide with the day of first Continuous Assessments in theory during the fall semester.
- Second Assessment will be Clinical Examination starting from 12th week till 16th week of the fall semester.
- Third Assessment will be Clinical Examination starting from 8th week till the 12th week of spring semester.
- All three assessment will contribute to 50 % for the total continuous assessment, remaining 50% will be final clinical Examination.

For courses assessed after one semester

- Continuous assessment of clinical components will be in the form of OSCE/Clinical Examination.
- There will be one assessment during the whole semester, which will contribute 50% of clinical components, remaining 50% will be final clinical Examination / OSCE.

Course Assessment/Grading System for Clinical Courses

Continuous Assessment	=	60 %	Comprehensive Examination	=	40 %
Continuous assessment		40%	Theory Exam		50 %
Quizzes/TBL/PBL		10%	Clinical/OSCE		50 %
Clinical/OSCE		50%			

17.31 Comprehensive Preclinical and Clinical Examination

The Comprehensive Clinical Examination will be the final examination for the course.

The clinical component will be tested with objective structured clinical examination (OSCE) and/or Clinical Case Procedures. The proportion of scores for these two components may vary based on the nature of the course but will be notified to the students in advance

Clinical case procedures will be assessed using the prescribed assessment forms for each subject as given in the clinical manual; Policies, Procedures & Assessment Criteria.

Eligibility for the Comprehensive Examination:

To appear for the Comprehensive Pre-clinical/Clinical Examination a student must have completed all preclinical and clinical requirements.

17.31.1 Pass grade in Courses with Practical/Pre-clinical/Clinical Components

To appear for the final theory examination a student must have passed the practical/preclinical/clinical components of the continuous assessment of that course. To achieve an overall pass grade a student has to obtain a minimum passing Grade (60%) in OSPE, OSCE/ practical/ preclinical/ clinical components (combination of continuous assessment and comprehensive Examination) of the course. The final grade for each course will be based on the combined scores of theory and clinical components. A student will not pass the course if the score for the theory /practical/ pre-clinical / clinical components are below minimum pass level, even if the total overall score for theory and clinical taken together exceeds the minimum pass level. Students who obtain minimum pass grade in the practical/pre-clinical/clinical component of the course and fail in final examination will repeat only the theory component of the course in the repeat 1 and repeat 2 examination.

Please refer to Preclinical and Clinical Manual of RAKCODS for requirements and continuous evaluation of practical/ preclinical/ clinical work.

Section III

Applicable to B Pharm Program

17.32 Continuous Assessment

Continuous assessment contributes 60% to the final marks for all the courses both in theory & practical. The methodology for conducting various continuous assessment components and their respective weightage are as follows:

17.32.1 In Course Assessment (50% weightage) – (Theory)

- There will be only ONE In Course Assessment (ICA) held during designated periods within the semester.
- The marks of In course Assessment (ICA) will contribute 50% of the total continuous assessment marks
- The format of this examination will be the same as that of the theory Comprehensive Examination and will include multiple choice questions (MCQs). However, the number of MCQs will be approximately half the number of the Comprehensive Examination.
- In-course Assessment will be conducted on consecutive days without any gap between examinations for different courses.
- The Dean of the College will notify the students about the schedule of the In Course Assessment -including the date, time, and venue.
- During In Course Assessment, one or more “Observers” may be deputed by the Office of the Examination to oversee the conduct of the examinations.

17.32.2 Continuous Assessment (50% weightage) – (Practical)

- For courses with practical/clinical credit hours, ONE assessment in practical will be held during the semester.
- The practical assessments will take place during the regular practical hours allocated in the time table
- The marks obtained in the practical assessment will contribute 50% of the total continuous assessment marks.
- Daily assessment during practicals through the semester contributes to 25% of the total marks. Laboratory report writing, viva voce etc., contributes to 25% of the total marks.
- Continuous assessment in practical will be in the form of objective structured practical examination (OSPE), objective structured clinical examination (OSCE) or practical examination according to the nature of the course.

17.32.3 Written test* (20% weightage)

- There will be ONE written test per semester, and its placement will be notified at the beginning of the semester.
- Written test can be in the form of written reports, presentations, projects etc., relevant to the course as decided by the course faculty.
- The marks obtained in the written test will contribute 20% to the total continuous assessment of marks
- The date for the written test will be announced at least one week in advance and conducted during the regular theory hours.
- The faculty shall provide the detailed guidelines to the students on the format of the test.

** For courses without TBL, there will be 2 written tests of 25 marks each.*

17.32.4 Team Based Learning (TBL) (20% weightage)

One Team Based Learning (TBL) is conducted per course during the semester. Contents of TBL sessions will be assessed at theory examinations.

- The marks obtained in the TBL sessions over the semester will contribute 20% to continuous assessments
- Each TBL assessment consists of two components: individual readiness assurance test (i-RAT) and team readiness assurance test (t-RAT). i-RAT will contribute 60% and t-RAT will contribute 40% for calculation of final grade achieved by each student for a particular TBL. i-RAT and t-RAT may consist of ten MCQs.
- The topic and the study material will be made available to the students one week before the TBL session.
- TBL may be conducted stand alone or integrated among several courses wherever possible and the marks awarded will be equally distributed among the integrated courses (e.g. if a student gets 5 out of 10 marks in an integrated TBL of Pharmacotherapeutics/Pharmacology/Clinical Pharmacy, he/she will get 5 out of 10 in all the three individual courses). When integrated TBL is not possible, individual TBL will be conducted. However, this will be solely at the discretion of the College Dean.

17.32.5 Self Directed Learning (SDL) (10% weightage)

- Self-Directed Learning (SDL) sessions will be conducted for all the courses as per the weekly time table during the semester.
- SDL activity for each course will be assessed at the completion of each SDL session and will contribute 10% marks to the continuous assessments.
- SDL assessment will be conducted in the form of presentation/quiz/scenario/vignette.

Results of each continuous assessment will be made available to the students within 1 week of its conduct. At the end of all the assessments, the College Dean will submit the raw marks for all the evaluation components to the Office of the Examination in the given format after due review/verification if any.

All continuous evaluation reports, in the given formats, will be properly signed by faculty/Chairpersons before being sent to the Office of Examinations through the College Dean. The Office of Examinations may return the marks for departmental clarification or reconsideration if any discrepancy or inconsistency appears.

17.33 Distribution of Marks

The marks distribution for B.Pharm program is shown in the table below (there may be minor variations depending on the specific needs of some courses).

Theory			Practical		
Continuous Assessment (%)		Comprehensive Examination (%)	Continuous Assessment (%)		Comprehensive Examination (%)
In Course Assessment	50	MCQs 100	In Course Assessment	50	OSPE/OSCE Practical examinations
Written Test	20		Daily assessment	25	
TBL	20		Lab manual, viva	25	
SDL Assessment	10				
Total	100	100	Total	100	100
Ratio for Final Mark	60	40	Ratio for final mark	60	40
SUMMARY OF CONTINUOUS ASSESSMENT					
S.No.	Item		No. of Assessments		
1.	In Course Assessment		1*		
2.	Written Test		1**		
3.	TBL		1		
4.	SDL Assessment		1		
5.	Practical Assessment		1		

*However, there will be an additional ICA for those students who were absent / got less marks due to valid reason.

** For courses without TBL, there will be 2 written tests of 25 marks each.

Section IV

Applicable to BSN / RN-BSN Bridge Program

Part A - Applicable to Core & Non-core nursing courses for BSN and RNBSN

Non-Core Nursing Courses without practical

1. Psychology (NPS7203)
2. Sociology (NSO7303)
3. Nursing Ethics (NET 7202)
4. Professional Issues & Trends in Nursing (NPT7302)

Non-Core Nursing Courses with practical

1. Nursing Education (NNE7305)
2. Nursing Leadership & Management (NLM7305)
3. Nursing Research Methodology & Statistics (NRS7305)

17.35 Continuous Assessment

Assessment in the BSN and RNBSN clinical courses follows the general principles of the assessment system of the University but is adjusted for the specific needs of the clinical practice in Nursing. There is continuous assessment and Comprehensive Examinations in both theory and clinical components of these courses.

For courses taught over two semesters, continuous assessment occurs in November and March. For courses taught over one semester, there is one continuous assessment mid semester either in November or in March. Comprehensive Examination is conducted at the end of the academic year if two semester courses or at the end of the semester in semester courses.

Combination of these components in addition to other components gives the grade of the course at the end of the semester or year, depending on if it is semester or year course. Eligibility to progress to the following year of study is decided at the end of each academic year.

Continuous assessment will contribute 60% and Comprehensive Examination 40% in each of the two components, theory and clinical.

The overall scores of each component, theory and clinical, will contribute 100% each towards the grade of the student in that course. Separate passing for theory and clinical for core nursing courses is mandatory

17.35.1 Continuous Assessment Theory

For courses assessed over two semesters

- There will be two Continuous Assessments in theory held during designated periods within the two semesters for both the BSN and RNBSN program.
- The average of two assessments will contribute 50% of total continuous assessments.
- The format of these examinations will be the same as that of the theory Comprehensive Examination and will include multiple choice questions (MCQ).

- In each of the continuous assessments, students will be examined on only that part of the content which has been taught until that period of the course.

1st Continuous Assessment test - from beginning of year up to 1st assessment

2nd Continuous Assessment test - from 1st assessment up to 2nd assessment

- The continuous assessment will be conducted on consecutive days without any gap between examinations for different courses.
- The Dean of the college will notify the students about the schedule of the continuous assessment - including the date, time, and venue.
- During continuous assessments, one or more “Observers” may be deputed by the office of the examination to oversee the conduct of the examinations.

For courses assessed after one semester

- There will be one Continuous Assessment in theory held during a designated period within the semester, which will contribute 50% of the total continuous assessment.
- The format of the examination will be the same as that of the theory comprehensive examination and will include multiple choice questions (MCQ)
- The Continuous Assessment will be conducted on consecutive days without any gap between examinations for different courses.
- The Dean of the College will notify the students about the schedule of the continuous assessment - including the date, time, and venue.
- During continuous assessment, one or more “Observers” may be deputed by the office of the examination to oversee the conduct of the examinations.

17.35.2 Assignments

For courses assessed over two semesters

- There will be two assignments per academic year, and its placement is left to the course coordinator.
- Assignments may take the form of written reports, presentations, projects, group work relevant to the course, critique, analysis & problem solving etc.
- The average mark of the assignments will carry 20% of continuous assessment.
- The faculty shall fix the precise date of submission and once the date is fixed, the faculty must maintain the deadline.
- Different topics can be given to different students or different group of students. The topics for the assignments will be announced at least 2 weeks in advance.
- The faculty shall provide the detailed guidelines to the students on the format of the assignment.
- For courses without TBL, Assignments will contribute 30% of the total continuous assessment.

For courses assessed after one semester

- There will be a minimum of one assignment, and its placement is left to the course coordinator.
- Assignments may take the form of written reports, presentations, projects, group work relevant to the course, critique, analysis & problem solving etc.
- Assignments will carry 20% of continuous assessment.
- The faculty shall fix the precise date of submission and once the date is fixed, the faculty must maintain the deadline.
- Different topics can be given to different students or different groups of students.
- The topics for the assignments will be announced at least 2 weeks in advance.
- The faculty shall provide the detailed guidelines to the students on the format of the assignment.
- For courses without TBL, Assignments will contribute 30% of the total continuous assessment.

17.35.3 Quizzes

For courses assessed over two semesters

- Quiz is a mini written assessment testing a small area/topic in the course. The objectives of conducting the Quizzes are to motivate the students to learn and assess the level of knowledge on a continuous basis, and encourage analytical and critical thinking ability of students on selected topics.
- There will be two quizzes in the academic year
- Quizzes may comprise of any one or a combination of MCQ, RRE and problem solving exercises.
- The average of the two Quizzes will contribute 15% of the total continuous assessment. However for courses with no TBL, the contribution will be 20%.
- Quiz is to be conducted during the regular class hour for that particular course, with prior announcement.

For courses assessed after one semester

- Quiz is a mini written assessment testing a small area/topic in the course. The objectives of conducting the Quizzes are to motivate the students to learn and assess the level of knowledge on a continuous basis, and encourage analytical and critical thinking ability of students on selected topics.
- There will be one quiz in the semester.
- Quiz may comprise of any one or a combination of MCQ, RRE and problem solving exercises.
- The quiz will contribute 15% of the total continuous assessment. However, for courses with no TBL, the contribution will be 20%.
- Quiz is to be conducted during the regular class hour for that particular course, with prior announcement

17.35.4 Team Based Learning (TBL)

- A minimum of one TBL will be conducted per semester.
- Weightage of 15% derived from the evaluation of TBL process with iRAT and tRAT scores
- Contents of TBL sessions will be assessed during theory examinations.
- TBL is ideally integrated among several courses and the score awarded will be taken into all the integrated courses equally (e.g. if a student gets 10 out of 15 score in an integrated TBL of Anatomy, Physiology and Biochemistry, he/she will get 10 out of 15 in all the three individual courses). When integrated TBL is not possible, individual course TBL shall be planned. The iRAT & tRAT contribution will be 60% and 40% respectively.

Results of each continuous assessment will be made available to the students within 1 week of its conduct. At the end of all the assessments, the respective College Deans shall submit the raw score for all the evaluation components to the Office of the Examination in the given format after due review/verification if any.

All continuous evaluation reports, in the given formats, shall be properly signed by faculty/Chairpersons before being sent to the Office of Examinations through the respective College Deans. The Office of Examinations may return the evaluation report for the departmental clarification or reconsideration if any discrepancy or inconsistency appears.

17.35.5 Continuous assessment (CA) and grading for core and noncore nursing courses: Theory:

CA	CA Test	PBL/TBL	Quiz	Assignment	Total
	50%	15%	15%	20%	100%

Final score for core nursing courses will be: CA + Comprehensive Exam: 60%+ 40% =100%

17.35.6 Continuous assessment (CA) and grading for non-core nursing courses with practical

Distribution of final score for theory: CA + Comprehensive Exam: 60%+40% = 100%, from which 70% will contribute towards the theory component.

Distribution of final score for practical: The weightage of 30% is from continuous assessment of the practical component

Final score for non-core nursing courses with practical will be: Theory + Practical =70% + 30% =100%

17.35.7 Continuous Assessment - Clinical for core nursing courses

Continuous assessment in clinical work will be carried out for each course. Generally, in each course, assessment will be under the components mentioned below.

Objective Structured Clinical Examination (OSCE)

- Two OSCEs will be held at regular intervals throughout the academic year for the BSN and RNBSN bridge program.
- They may be timed to coincide with the day of continuous assessments in theory. Alternatively the department may hold them at other times but at approximately equal intervals. In this case, the clinical assessments will take place during the practical periods allocated in the time table.

The average of two OSCEs for both programs will contribute to 35% to the total continuous assessment

Clinical Evaluation

- Students overall clinical performance during postings will be evaluated and contribute 25% to clinical continuous assessment.

Clinical Assignment

- Will contribute 25% to clinical continuous assessment
- Requirements may vary from course to course

Case Presentations

- Case presentations will contribute 15% to clinical continuous assessment.
 - Requirement for each course may be different and will be informed to the students by the faculty in charge
- Results of each continuous assessment will be made available to the students within 1 week of its conduct. At the end of all the assessments, the respective College Deans shall submit the raw score for all the evaluation components to the Office of the Examination in the given format after due review/verification if any. All continuous evaluation reports, in the given formats, shall be properly signed by faculty/Chairpersons before being sent to the Office of Examinations through the respective College Deans. The Office of Examinations may return the evaluation report for the departmental clarification or reconsideration if any discrepancy or inconsistency appears

17.35.8 Examination & Grading System: Clinical:

CA	OSCE	Clinical Evaluation	Clinical Assignment	Case Presentation	Total
	35%	25%	25%	15%	100%

Comprehensive Exam: 40%

Final score for clinical will be: CA + Comprehensive Exam: 60%+ 40% =100%

*** Every student must pass theory and clinical separately. If a student fails in the clinical examination he /she will have to repeat the theory and clinical examination.**

Comprehensive Examination

- Eligibility for appearing for university examination is 75% attendance for Theory courses and 95% for clinical rotations.
- Failure to appear for the comprehensive examination will result in grade "F". Students failing a course have to appear and pass the repeat examination/s to be promoted to next academic year.
- A student will be permitted a maximum of six academic years for BSN and four academic years for RNBSN Bridge to complete the program

Part B: Applicable to Basic Sciences Courses

The courses included are:

1. Anatomy (NAN7103)
2. Physiology (NPH7103)
3. Microbiology (NMB7103)
4. Human Biochemistry (NHB7203)
5. Pathology (NPA 7203)
6. Pharmacology in Nursing (NPN7203)

17.36.1 Continuous Assessments**For courses assessed over two semesters**

- There will be two Continuous Assessments in theory held during designated periods within the two semesters for both the BSN and RNBSN program.
- The average of the two assessments will contribute 50% of total continuous assessments.
- The format of these examinations will be the same as that of the theory Comprehensive Examination and will include multiple choice questions (MCQ).

In each of the Continuous Assessments test, students will be examined on only that part of the content which has been taught until that period of the course.

1st Continuous Assessment test - from beginning of year up to 1st assessment

2nd Continuous Assessment test - from 1st assessment up to 2nd assessment

- The continuous assessment will be conducted on consecutive days without any gap between examinations for different courses.
- The Dean of the college will notify the students about the schedule of the continuous assessment - including the date, time, and venue.
- During continuous assessments, one or more "Observers" may be deputed by the office of the examination to oversee the conduct of the examinations.

For courses assessed after one semester

- There will be one Continuous Assessment in theory held during a designated period within the semester.
- The format of the examination will be the same as that of the theory comprehensive examination and will include multiple choice questions (MCQ)
- Students will be examined on the topics prior to the continuous assessment
- The Continuous Assessment will be conducted on consecutive days without any gap between examinations for different course.
- The Dean of the College will notify the students about the schedule of the continuous assessment - including the date, time, and venue.
- During continuous assessment, one or more "Observers" may be deputed by the office of the examination to oversee the conduct of the examinations.

17.36.2 Practical continuous assessment

For courses assessed over two semesters

- For courses with practical credit hours, two assessments in practical will be held during the academic year.
- They may be timed to coincide with the day of Continuous Assessments in theory. Alternatively the Department may hold them at other times but at approximately equal intervals. In this case, the practical assessments will take place during the practical periods allocated in the time table
- The average of the two practical assessments will contribute 30% to the total continuous assessment.
- Continuous assessment in practical will be in the form of Objective Structured Practical Examination (OSPE)

For courses assessed after one semester

- For courses with practical credit hours, one assessments in practical will be held during the semester.
- They may be timed to coincide with the day of Continuous Assessments in theory or scheduled at other times by the relevant Department and will be held at approximately equal intervals. In the latter case, the practical assessments will take place during the practical periods allocated in the time table
- The one practical assessment will contribute 30% to the total continuous assessment.
- Continuous assessment in practical will be in the form of Objective Structured Practical Examination (OSPE).

Courses with no practical credits - The weightage distribution for continuous assessment will be: Continuous Assessments = 40%, Quiz = 15%, Assignment = 20%, TBL = 25%

17.36.3 Assignments

For courses assessed over two semesters

- There will be two assignments per academic year, and its placement is left to the Course Coordinator. If the course is without TBL, assignments will be increased to three to four.
- Assignments may take the form of written reports, presentations, projects, group work relevant to the course, critique, presentations, analysis & problem solving etc.
- For courses with TBL, assignments will carry 15% of continuous assessment. In courses without TBL, assignments will contribute 20% to continuous assessment.
- The faculty will fix the date of submission and maintain the deadline.
- Different topics can be given to students or groups and will be will be announced at least 2 weeks in advance with the detailed guidelines.

For courses assessed after one semester

- There will be one assignment per semester, and its placement is left to the Course Coordinator. If course is without TBL the assignments will be increased to two or three.
- Assignments may take the form of written reports, presentations, projects, group work relevant to the course, critique, presentations, analysis & problem solving etc.
- For courses with TBL, assignments will contribute 15% of continuous assessment. In courses without TBL, assignments will contribute 20% to continuous assessment.
- The faculty will fix the date of submission and maintain the deadline.
- Different topics can be given to students or groups and will be announced at least two weeks in advance with the detailed guidelines.

17.36.4 Quizzes

For courses assessed over two semesters

- Quiz is a mini written assessment testing a small area/topic in the course. The objectives of conducting the quizzes are to motivate the students to learn and assess the level of knowledge on a continuous basis, and encourage analytical and critical thinking ability of students on selected topics.
- There will be two quizzes in the academic year.
- Quizzes may comprise of any one or a combination of MCQ, RRE and problem solving exercises.
- The average the two quizzes will contribute 15% of the total continuous assessment. However for courses with no TBL, the contribution will be 20%.
- Quiz is to be conducted during the regular class hour for that particular course, with prior announcement.

For courses assessed after one semester

- Quiz is a mini written assessment testing a small area/topic in the course.
- The objectives of conducting the Quizzes are to motivate the students to learn and assess the level of knowledge on a continuous basis, and encourage analytical and critical thinking ability of students on selected topics.
- There will be a minimum of one quiz in the semester.
- Quizzes may comprise of any one or a combination of MCQ, RRE and problem solving exercises.
- The quiz will contribute 15% of the total continuous assessment. However for courses with no TBL, the contribution will be 20%.
- Quizzes are to be conducted during the regular class hour for that particular course, with prior announcement.

17.36.5 Team Based Learning (TBL)

- A minimum of one TBL will be conducted per semester.
- Weightage of 15% derived from the evaluation of TBL process with iRAT and tRAT scores
- Contents of TBL sessions will be assessed during theory examinations.
- TBL is ideally integrated among several courses and the score awarded will be taken into all the integrated courses equally (e.g. if a student gets 10 out of 15 score in an integrated TBL of Anatomy, Physiology and Biochemistry, he/she will get 10 out of 15 in all the three individual courses). When integrated TBL is not possible, individual course TBL shall be planned.

Results of each continuous assessment will be made available to the students within 1 week of its conduct. At the end of all the assessments, the respective College Deans shall submit the raw score for all the evaluation components to the Office of the Examination in the given format after due review/verification if any.

All continuous evaluation reports, in the given formats, shall be properly signed by faculty/Chairpersons before being sent to the Office of Examinations through the respective College Deans. The Office of Examinations may return the evaluation report for the departmental clarification or reconsideration if any discrepancy or inconsistency appears.

17.36.6 The suggested percentage distribution for Continuous Assessment and comprehensive Examination is shown in the table below (there may be minor variations depending on the specific needs of some courses).

Continuous Assessment	Comprehensive Examination
Continuous assessments Test 30 (No Practical - 40) (No Practical & TBL - 40)	Theory 70 (No Practical - 100)
Practical 30	Practical 30
Quiz 10 (No TBL - 20) (No Practical - 15) (No Practical & TBL - 30)	
Assignments 15 (No TBL - 20) (No Practical - 20) (No Practical & TBL - 30)	
TBL 15 (No Practical - 25)	
TOTAL 100	TOTAL 100
Ratio for Final Weightage 60 %	40 %

18. RAKMHSU Members

18.1 RAKMHSU Board of Governors

S.No.	Name	Designation
1	H.E. Mohammed Hassan Omran Al Shamsi	Chairman
2	Dr. Yasser E.H. Al Nuaimi	Vice Chairman
3	Mr. Salem Ali Al Sharhan	Member
4	Dr. Raza Siddiqui	Member
5	Mr. Jean Diab	Member

18.2 List of Senior Administrators

S.No.	Name	Designation
1	Dr. Sooda Gurumadhva Rao	President
2	Dr. Laxminarayana Kurady Bairy	Acting CAO & Dean, RAK COMS and Professor (Pharmacology)
3	Dr. Muhammed Mustahsen Rahman	Dean - RAKCODS
4	Dr. Padma Rao Gurumadhva	Dean - RAKCOPS
5	Dr. Vijaya Kumardhas	Dean - RAK CON
6	Dr. Manal Mahmoud Sami Mohd.	Dean - Student Affairs & Professor - Pathology
7	Dr. Tamer Salama Abdelsalam Ismaiel El-Marsafawy	Dean - Institutional Effectiveness, Quality Assurance & Accreditation and Director In - charge (Operations)
8	Dr. Sunil Srichand Nichlani	Associate Dean - Examinations & Professor - ENT
9	Dr. Syed Suhail Naser Osmani	Deputy Director - Cedar & Documentation Center & Associate Professor - Microbiology.
10	Dr. Ashfaque Hossain	Deputy Director - Research and Professor & Chairperson, Medical Microbiology & Immunology
11	Mr. Saleem Khader Syed	Assistant Director - Finance & Admin
12	Dr. Sampathkumar Madam Palanisamy	Chief Librarian
13	Mr. Hassan Muhammad Khan	CEO- RAK CODS
14	Mr. Asadullah Khan	Director- RAK CODS
15	Mr. Nisar Ahmed Nisar	Head of Finance & HR- RAK CODS
16	Mr. Atiq ur Rehman	Head of Marketing & Admin- RAK CODS

18.3 RAKCOMS Faculty

S.No	Name of Faculty	Designation	Degree / Institution
1	Dr. Laxminarayana Kurady Bairy	Professor & Chairperson - Pharmacology Dean - RAK COMS	Ph.D. (1991) & MD (1985), (Mangalore Uni.) MBBS(1981), (Karnataka Uni.), India
DEPARTMENT OF ANATOMY			
2	Dr. Kumar M.R. Bhat	Professor & Chairperson	Ph.D. (1999) (Ind) (Manipal Uni.), Medical M.Sc (1993) & B.Sc. (1990) from Mangalore Uni. : Ind.
3	Dr. Anand Srinivasan	Associate Professor	MS (JIPMER) (2004) (India), MBBS (1998) (Dr. MGR Med. Uni.)
4	Dr. Vijaya Paul Samuel	Associate Professor	Ph.D. (2005) (India) & Medical M.Sc. (1998) : Manipal Uni., B.Sc.(1995) (Mangalore Uni.) : Ind
5	Dr. Ansa Tariq	Instructor	MBBS(UHS,Pak,2013)
DEPARTMENT OF BIOCHEMISTRY			
6	Dr. B. K. Manjunatha Goud	Associate Professor & Chairperson In - Charge	MD - Biochemistry (2009), Manipal University, MBBS (2004), VIMS Ballari, India
7	Dr. Grisilda Vidya Bernhardt	Associate Professor	Ph.D. (2013) (Yenepoya Uni.), Medical M.Sc. (1993) (Manipal Uni.) & B.Sc. (1990)(Mangalore Uni.): Ind
DEPARTMENT OF MEDICAL MICROBIOLOGY & IMMUNOLOGY			
8	Dr. Ashfaque Hossain	Professor & Chairperson	Ph.D. (1990) (UK) (Uni. Of Glasgow), M.S.(1991) and B.S. (1984) (Bangladesh)
9	Dr. Syed Suhail Naser Osmani	Associate Professor	MD(Medical Microbiology)(1998)(India), MBBS(1990)(India)
10	Dr. Godfred Antony Menezes	Associate Professor	Ph.D. (2011) (Ind)(JIPMER), Medical M.Sc. (2003) (MAHE) & B.Sc. (1990) from Mangalore Uni.: Ind
11	Dr. Hafiz Ahmad	Assistant Professor	Ph.D. (2014) (AIIMS)(India), Medical M.Sc. (2005) (Manipal Uni.), B.Sc.(2002)(Mumbai Uni.): Ind
DEPARTMENT OF PATHOLOGY			
12	Dr. Manal Md Sami Md Abdel Ghani	Professor & Chairperson	MD/Ph. D(Pathology) (2004), Master Degree in Pathology (1999), M.B.Ch.B (1992): Suez Canal University, Egypt (1999), M.B.Ch.B (1992): all from Suez Canal University, Egypt
13	Dr. Abdul Rehman	Assistant Professor	Ph.D(Pathology)(2017)(Hanyang University)(S. Korea), MBBS(2001)(Foundation University)(Pak)
14	Dr. Nausheen Henna	Senior Lecturer	Diplomate RCPATH (Histopathology)(RCP, UK)(2019) , FCPS(Histopathology)(Pak)(2014) , M.Phil. (Morbid Anatomy & Histopathology)(2011) & MBBS (University of Health Sciences, Pak) (2005)
DEPARTMENT OF PHARMACOLOGY			
15	Dr. L.Kurady Bairy	Professor & Chairperson	Ph.D. (1991) & MD (1985), (Mangalore Uni.) MBBS(1981), (Karnataka Uni.), India
16	Dr. Suresh Kumar S.	Associate Professor	DM (2014) (JIPMER), MD (2011) (JIPMER), MBBS(2005)(RGUHS):Ind

S.No	Name of Faculty	Designation	Degree / Institution
DEPARTMENT OF PHYSIOLOGY			
17	Dr. Tarig Hakim M. Hakim	Professor & Chairperson, & Associate Dean - Basic Sciences	Ph.D. (2010) (Khartoum University), MD (2005) (Sudan MSB), M.Sc. (2002) and MBBS (1996) :Khartoum Uni.
18	Dr. Joan Bryant Kumar	Associate Professor	MD - Physiology (2004) -Madurai Medical College, India; MBBS (1996)- Madras Medical College, India
19	Dr. Sareesh N. N.	Associate Professor	Ph.D. (2013) & Medical M.Sc. (2007) (Manipal University) (Ind)
CLINICAL SCIENCES DEPARTMENTS			
20	Dr. Rasha Aziz Attia Salama	Professor & Chairperson - Community Medicine	M.D - Public Health, Social and Preventive Medicine (2005), M.Sc. (Public Health) (2000), MBBS (1994): all from Cairo University, Egypt
21	Dr. Nikhil P. Hawal	Associate Professor - Community Medicine	MD (KLE Uni.)(2013), MBBS(RGUHS)(2009):Ind
22	Dr. Sunil S. Nichlani	Professor - ENT	MS (2005) (MU, Ind), MBBS (RGMCC, Ind)
23	Dr. Chaitanya P Garg	Professor - General Surgery	MS - General Surgery (2002), MBBS (1998) from MS Univ. Baroda, India, Diploma in Advanced Laparoscopic Surgery (2008) (1 week), GEM Training Institute, Tamil Nadu, India
24	Dr. Biji Thomas George	Associate Professor - Surgery	FRCS (Glasgow)(2003), MS(Surgery)(1998)(Ind), MBBS(1991)(Ind)
25	Dr. Raghavendra V. Bhat	Professor - Internal Medicine	MD(1982), MBBS(1976):Kasturba Med.Coll.: Ind
26	Dr. Imran Rashid Rangraze	Associate Professor-Internal Medicine	MRCP(UK)(2018), FACP(2018), MD (2008) (Sher e Kashmir Medical College) (2008), MBBS(2003)(Govt. Medical College)(2003): (Ind)
27	Dr. Rajani Dube	Professor-Obstetrics and Gynecology	MD (Obs. & Gyn.)(2004) & MBBS: Utkal Univ., India
28	Dr. K. R. Sheeba	Lecturer-Obstetrics and Gynecology	DGO(1999) (Dr MGR Med. Uni.), MBBS(1988) (Madras Uni.)
29	Dr. Sumant Naginbhai Chavda	Professor-Orthopedics	MS (Ortho) (1993) & MBBS (1988): MS Univ. Baroda, India, Fellowship in Hip & Knee Arthroplasty (2008) (1 yr): Toronto Univ., Canada, FICS: Int'l college of Surgeons, US
30	Dr. Subhranshu Sekhar Kar	Professor - Pediatrics and Associate Dean- Clinical Sciences	MD (Pediatrics) (2003): Utkal Univ., India, MBBS: Berhampur Univ., India
31	Dr. Malay Jhancy	Associate Professor-Pediatrics	MD (India)(2010)(Rangaraya Medical College), MBBS(1991)(RMC) (Ind)
32	Dr. Talaat Matar Tadross	Professor - Psychiatry	MD (Psychiatry) (1999), M.Sc. (Psy. Med. And Neuro.) (1983): Cairo University, MBCh.B.(1977), Tanta University
33	Dr. Shehla Shafi Khan	Senior Instructor - Psychiatry	MBBS(Rajshahi Med. University)(B'desh)(2005)

18.4 RAKCODS Faculty

S.No.	Name of Faculty	Designation	Degree / Year / Specialty
1	Dr. Muhammed Mustahsen Rahman	Dean & Professor	Ph.D (1989) Periodontology
2	Dr. Vivek Padmanabhan	Chairperson, Assistant Professor	Ph.D (2017) Pediatrics and Preventive Dentistry
3	Dr. Wasan Al Taei	Associate Professor	Ph. D (2000) Biochemistry Clinical Biochemistry
4	Dr. Md Sofiquil Islam	Assistant Professor	Ph.D (2014) Operative Dentistry
5	Dr. Huda Abutayyem	Assistant Professor	Ph.D (2016) Orthodontics
6	Dr. Nur Hatab	Assistant Professor	Ph.D (2016) Oral Surgery
7	Dr. Shadi El Bahra	Assistant Professor	Ph.D (2016) Prosthodontics
8	Dr. Mohamed Ahmed Elsayed Moosa	Assistant Professor	Ph.D (2017) Endodontics
9	Dr. Nada Tawfig	Assistant Professor	Ph.D (2013) Periodontology
10	Dr. Riham Mohammed	Assistant Professor	M.Sc. (2016), FFD RCS Ireland (2017) Oral Surgery
11	Dr. Sherine Shehata Badawy	Assistant Professor	Ph.D (2013) Pediatric Dentistry
12	Dr. Nallan Chaitanya	Assistant Professor	Ph.D (2018) Oral Medicine & Dental Radiology
13	Dr. Sivan Padma	Assistant Professor	Ph.D (2018) Oral Pathology
14	Dr. Nancy Farghal,	Assistant Professor	Ph.D (2013) Dental Material (Restorative Dentistry)
15	Dr. Fadia Al Fateh	Assistant Professor	Ph.D (2018) Oral Rehabilitation (Prosthodontics)

18.5 RAKCOPS Faculty

S.No	Name of Faculty	Designation	Degree / Institution
1	Dr. Padma G.M. Rao	Dean & Professor	Ph. D - Pharmacy Practice (1997), M. Pharm (1978), B. Pharm (1975). Professional Diploma in Clinical Research (2004): (India)
2	Dr. K. V. R. N. S. Ramesh	Associate Dean, Professor & Chairperson - Pharmaceutics	Ph.D(1996),M. Pharm(1985)
3	Dr. Sathvik Belagodu Sridhar	Professor & Chairperson - Pharmacy Practice & Pharmacology	Ph. D (Pharmacy Practice) (2008), M. Pharm (Pharmacy Practice) (1999) , B. Pharm (1996), D.Pharm (1991)
4	Dr. Bhoomendra Atmaram Bhongade	Professor & Chairperson - Pharmaceutical Chemistry	Ph. D (Pharmacy) (2006), M. Pharm - Pharma. Chem (1997), B. Pharm (1995)
5	Dr. Shahnaz Usman	Professor	Ph. D (Pharmaceutics) (2007), M.Phil. - Pharmaceutics (1998), B.Pharm (1990)
6	Dr. Areeg Anwer Ali	Professor	Ph.D (Pharmacology) , M. Pharm (Pharmacology)
7	Dr. Sirajunisa Talath	Associate Professor	Ph. D - Pharma & Chemistry (2007), M. Pharm (2002), B. Pharm (1997)
8	Dr. Omar Abdulraheem Sarheed	Associate Professor	Ph. D - Pharmaceutics & Pharmacy Practice (2008),B.Sc. (Pharm) (2001)
9	Dr. Hemant Kumar Singh Yadav	Associate Professor	Ph. D (2011), M. Pharm. (2004), B. Pharm (2001): JSSCP, India
10	Dr. Syed Arman Rabbani	Associate Professor	Ph. D (2013), M. Pharm. (2010), B. Pharm (2008): Jamia Hamdard Uni., Delhi, Ind
11	Dr. Tarun Wadhwa	Assistant Professor	Ph. D (2014) (KLE Uni., Ind), M. Pharm. (2007) (MAHE, India), B. Pharm (2004) (MDU, Ind)
12	Dr. Adil Farooq Wali	Assistant Professor	Ph.D. (2015) (Ind), M. Pharm. (2012) (Ind): (Kashmir Uni.), B. Pharm. (2006) (Punjab Tech. Uni.) (Ind)
13	Dr. Javedh Shareef	Assistant Professor	Ph.D. (2016), M. Pharm. (2005) (NITTE Uni. IND): B. Pharm. (2001)
14	Mrs. Fasiha Walayat Shah	Senior Lecturer	M.Phil. (Pharmaceutics) (2007) , B. Pharm (2002)
15	Mrs. Jayachithra	Lecturer	M. Pharm. (2004) , B. Pharm. (1997)

18.6 RAKCON Faculty

S.No	Name of Faculty	Designation	Degree / Institution
1	Dr. Vijaya Kumardhas	Dean and Professor	Ph.D.(Education)-Nursing-1994, M.Sc. (Psychiatric Nursing) -1988, MA (Sociology) -1979, B.N. (Bachelor of Nursing) -1977, SNDT. University, Mumbai
2	Dr. Sneha Pitre	Associate Professor	Ph.D. (Pediatric Nursing) (2011) (Bharati Vidyapeeth Deemed Uni.), M.Sc. In Nursing (Pediatric Nursing) (1997) (SNTDWU), B.Sc. In Nursing (1983) (SNTDWU) India
3	Dr. Shukri Adams	Assistant Professor	Ph. D (Nursing) University of San Diego (USA), BSN (1999) University of Southern Queensland Australia
4	Dr. Amel B. Salgado	Assistant Professor	Doctor of Education (Ed.D) (2010) and M.A. (2005) PCHS, Philippines and B.Sc. Nursing (1993) PCEC Philippines
5	Dr. Priyalatha	Assistant Professor	Ph.D. (2014): RGUHS. India, MSN (2004) and BSN (1992) CMC Vellore
6	Dr. Victoria Hanson	Assistant Professor	Ph.D. (Maternal & Child Health Nursing) (2015) (Uni. Of Western Cape) (South Africa) & M.Sc. (Maternal & Child Health Nursing) (2005) & B.Sc. (Nursing Education) (Ibadan Uni.) (1997) (Nigeria)
7	Dr. Rabab Gad	Assistant Professor	Ph.D. (Comm. Health Nursing) (2013) (Mansoura Uni.), Masters in Nursing (Ain Shams Uni.) (2007), Bachelors in Nursing (1999) (Mansoura Uni.) (Egypt)
8	Dr. Rose Ekama Ilesanmi	Assistant Professor	Ph.D. (Medical Surgical Nursing) (2014) University of Ibadan, Nigeria, M.Sc. Nursing (Medical Surgical Nursing) (2004) University of Ibadan, Nigeria B.Sc. Nursing (1999)
9	Dr. Ramya Kundayi Ravi	Assistant Professor - Adult Health Nursing	Ph.D. (MSN)(2018)(INC, Ind), M. Sc. (MSN)(AIIMS, Ind.) (2009) and B. Sc.(Hons.) in Nursing(2007) (AIIMS, Ind.)
10	Dr. Mona Gamal Mohamed Mohamed	Assistant Professor - Adult Health Nursing	Ph.D. (MSN) (Suez Canal Uni, Egypt (2017), M. Sc. (MSN) (2014) and B. Sc. in Nursing Science(2008): (Assuit Uni., Egpt)

S.No	Name of Faculty	Designation	Degree / Institution
11	Dr. Eman Abdelaziz Ahmed Rashad Dabou	Assistant Professor	Ph.D. (2011) (Uro. Nursing), M.Sc. (Uro. Nursing)(2007), B.N.Sc.(2000): Alexandria Uni., Egypt
12	Dr. Fatma Magdi Ibrahim Hassanein	Assistant Professor - Community Health Nursing	PhD(Geriatric and community health nursing)(2019), M.Sc.(Geriatric and community health nursing)(2013), B. Sc. of Nursing(2007):(Mansoura University)(Egypt)
13	Dr. Richard Mottershead	Assistant Professor - Psychiatric Mental Health Nursing	Ph.D. (Health and Social Care) (2019) (Uni. Of Chester) (UK), M.Sc. (Prof. Edu. / (Health and Social Care) (2010) (Uni. Of Wales) (UK), BN (Hons.)(RMN)(2005)(Uni. Of Wales)(UK)
14	Dr. Olabisi Fatimo Ibitoye	Assistant Professor-Midwifery/Maternal and Child Health Nursing	Ph.D.(Midwifery)(2017)(Uni. Of Western Cape)(S. Africa), M.Sc.(Midwifery)(2011) and B.Sc.(Nursing)(2001) from (Uni. Of Ibadan)(Nigeria)
15	Dr. Manju Avinash Nair	Senior Lecturer	Ph.D. (Banasthali Uni.) (2016) (Ind). M.Sc. Nursing (2000), B.Sc. Nursing (1995): MAHE, Manipal. India
16	Dr. Vimala Edwin	Senior Lecturer	Ph.D. (Banasthali Uni.) (2016) (Ind), M.Sc. Nursing (2007): Sri Ramachandra University, B.Sc. Nursing (1997) Dr. MGR University, MBA (HCS) (2011) (SMU): India
17	Ms. Sally Von Kanel	Senior Lecturer	M.Sc. in Maternal Child Health (1998): Al Quds Univ.Jerusalem; B.Sc. Nursing (1984): Kent State University, US, CELTA (2006) Cambridge Univ. London, UK
18	Mr. Suleman Shah	Lecturer	MSN (RAKMHSU (2013), B.Sc. Nursing (2003): Aga Khan University Karachi Pakistan
19	Ms. Shaimaa Abd Elsamad	Lecturer	MSN and SN(2005)(Alexandria Uni., Egypt)
20	Ms. Rachel James	Lecturer	M.Sc. (2013) (Jamia Hamdard, Delhi, India), B.Sc. (2010) (Jiwaji Uni. India)
21	Mr. Jamil Ahmed Mir	Lecturer	MSN (2016) (RAKMHSU) (UAE), B.Sc. Nursing: Aga Khan University Karachi, Pakistan
22	Ms. Israa Abdallah Abuijaln	Sr. Clinical Instructor	BSN (Sharjah Uni.) (2009), Diploma in Nursing (Inst. of Nursing, RAK) (2004), MSN - First year (Pursuing 2018-2019 from RAKCON)
23	Ms. Huda Mohammad Ali	Sr. Clinical Instructor	MSN (Comm. Health Nursing) (2019) (RAKMHSU), Bachelor in Nursing (2011) (Sharjah Uni.), Diploma in Nursing (2004) (Inst. Of Nursing) (UAE)
24	Ms. Nilda Ogsimer Pitogo	Sr. Clinical Instructor	BSN (1995) (Butuan Doctor's College) (Philippines)
25	Ms. Iman Mohammed Blata	Clinical Instructor	MSN (Psychiatric Mental Health Nursing) (RAKMHSU), RN-BSN (Bachelor of Science in Nursing) Diploma in Nursing (2006) (MOH, UAE)

18.7 General Education Faculty

S.No	Name of Faculty	Designation	Degree / Institution
1	Dr. Omar Al Jadaan	Associate Professor, Chairperson In-Charge – Gen. Edu.	Ph. D - Computer Sciences & Engg. (2010) (Osmania Uni., India), M.Tech. (Computer & Information Sciences) (2004), B.E. Electrical & Electronics Engg. (1996)
2	Dr. Nawar Nezar Mohamed Saeed Saleh Alaani	Associate Professor - Arabic Language and Islamic Studies	Ph.D. (Islamic Studies) (2010) (Islamic Beirut University) (Beirut, Lebanon), MA (Islamic.) (2000) & Bachelors (Islamic.) (1998): (International Islamic University Malaysia)
3	Dr. Huma Zaidi	Assistant Professor	Ph. D (English) (2002) (AMU, India), MA (English Lit) (1990), BA Hons (1988), B.Ed (1995)
4	Dr. Omnia Ibrahim Mohamed Hassanein	Assistant Professor - English	Ph.D. (English Lit.) (2003) (Helwan Uni.), Masters (Eng. Lit.) (1996) (Ain Shams Uni.), BA (English) (1991) (Ain Shams Uni.) : (Egypt)
5	Dr. Rania Hamed Ghanem	Assistant Professor - Natural Sciences Chief Co ordinator - Student Academic Advising	Ph.D. (Natural Sciences) 2008 Cairo University, MSc. Plant Biology 2003 Cairo University
6	Mrs. Carol Avil Mathias	Sr. Lecturer - Psychology & Senior Student Counsellor	Masters - Psychology (1988), Bachelors - Psychology (1986)

19. RAKMHSU Policy for E-Learning

19.1 Introduction

RAKMHSU offers Health Professional Education at its four constituent colleges i.e. RAK College of Medical Sciences, RAK College of Dental Sciences, RAK College of Pharmaceutical Sciences and RAK College of Nursing. The former two colleges offer Undergraduate education and the later ones offer both Undergraduate and Master's education. Health professional education, by its very nature, requires teaching/learning of Knowledge, Skills and Attitudes for provision of proficient and professional healthcare. It necessitates bedside clinical teaching in the hospital environment in addition to didactic education.

RAKMHSU has a Learning Management System, which is supported by the excellent IT team and utilized by the students, faculty and administrative offices for facilitating the university functioning in the areas of teaching, student support and administration.

The university does not usually offer E-Learning to its Students, but has formulated a policy to guide the implementation of E-Learning in case of unexpected challenging times like disasters and pandemics.

19.2 Scope

This policy applies to all University E-Learning courses as defined in the Definitions section of this policy.

19.3 Definition

E-Learning: E-Learning is education that uses one or more technologies as mentioned in section – 6.0 of this policy to carry out Teaching and Learning Activities of the University Online over the Internet (i) to deliver instruction to students who are separated from the instructor and (ii) to support regular and substantive interaction between the students and the instructor, synchronously or asynchronously.

19.4 University Standards for E-Learning

4.1 To ensure quality, RAKMHSU commits to the following standards for all E-Learning Courses.

- a. Develop sustain and, if appropriate, expand E-Learning Courses through regular planning and evaluation processes.
- b. Regularly evaluate and respond to resource needs and availability and demonstrate the University's capacity to assure an appropriate level of quality.
- c. Allocate special budget for E-Learning that includes resources for assessment of program, faculty and staff development, library and information resources improvement and upgradation of technology infrastructure.

- d. Allocate responsibility to the University faculty for the design and implementation of its E-Learning offerings.
- e. Ensure the rigor of the E-Learning Courses offerings and the quality of the instruction.
- f. Conducts periodic E-Learning course evaluation for sustainability and alignment with institutional priorities.
- g. Enter into contractual relationships and arrangements with academic and business partners for maintaining and improving the academic quality of all E-Learning courses provided under its name.

19.5 RAKMHSU will ensure that the quality and rigor of the University's E-Learning courses by

- a. Ensuring that the courses are coherent, cohesive, and comparable in academic rigor to programs offered in traditional instructional formats.
- b. Regularly benchmarking the curricula delivered through E-Learning against on-ground courses
- c. Checking to ensure that the curriculum is coherent in its content and sequencing of courses.
- d. Schedule courses for E-Learning Courses in such a way that it allows the students a dependable pathway to ensure timely completion of degrees.
- e. Enforces a policy on faculty-student ratios in E-Learning courses to support effective student learning.
- f. Develop guidelines to implement curriculum, course design and delivery that supports student-student and faculty-student interaction.

19.6 RAKMHSU commits to ensuring that the faculty responsible for delivering the E-Learning curricula and evaluating students' success in achieving the goals are appropriately qualified and effectively supported by.

- a. Providing regular professional development programs for faculty teaching in E-Learning, including best practices in E-Learning pedagogy and applicable technology tools.
- b. Develop capacity to constantly upgrade faculty teaching in E-Learning programs and technology available to them.
- c. Effectively supporting the faculty members in E-Learning during their sessions and also throughout the duration of the course

19.7 RAKMHSU commits to provide effective student and academic services to support students during E-Learning programs and courses by

- a. Providing effective web-based information to students about the nature of the E-Learning environment, and assists them in determining if they possess the skills important to success in E-Learning.
- b. Providing orientation designed for the E-Learning provided.
- c. Making available the support services to students in formats used for the delivery of the E-Learning.
- d. Making available to the students in E-Learning Courses an easy access to effective tech support 24/7.
- e. Providing students using E-Learning effective access to learning resources appropriate for the program or course, such as library and information resources.
- f. Defining the student complaint, code of conduct, and appeal processes clearly.

19.8 RAKMHSU assures the academic integrity of its E-Learning offerings by

- a. Ensuring that the student who registers in a E-Learning program or course is the same student who participates in and completes the course and receives the academic credit.
- b. Resenting the Academic integrity policies and expectations are presented during the orientation for distance students.

19.9 Special Clause

Health Professional Education requires a significant portion of the academic period to be spent at the healthcare facilities for acquiring the necessary clinical skills, diagnostic capability and care the patients in a clinical environment of the Hospitals/Clinics. This cannot be delivered through E-Learning mode, but instead requires the students to attend the clinical rotations at the healthcare facility.

19.10 Description of the Electronic Platforms used for E-Learning

E-Learning Platforms are the integrated set of services or tools, that provides services to the Faculty Members and Students of the University to enhance Education Delivery Online for the E-Learning.

Following Platforms provided to all the Faculty, Staff Members and Students of the University for the E-Learning. These services are provided through GSuite Applications and accessible from anywhere and any device through proper Authentication.

- a. **Google Hangouts (Meet):** Used to conduct live sessions with the Students - Audio / Video Call, Chat Room and Screen Sharing features with the Participants. Live session can be recorded.
- b. **Google Classroom:** Can be used to organize a Virtual Classroom – Study Material, Sharing of Documents, Announcement, Session Assessment, Assignment and other features.
- c. **Google Drive, Forms and Quiz :** To share Study Material - Files or Folders with the Students and General Assessment of the Sessions.
- d. **RoboCampus- UMS (LMS) :** To share Study Materials linked with the Time Table.
- e. **PowerPoint - Audio Caption & Screen Recording:** Can be used to insert Audio Narrations in the existing PowerPoint Slides and can be exported to video file format. These slides can be shared with the Students for the reference.
- f. **Spalshgain OFF-Campus Online Examinations System:** To conduct OFF-Campus Proctored Examinations Online with Artificial Intelligence (AI), Face Recognition, , Monitor & Record Live (Video& Audio) Streaming with Candidate Screen recording features. Proctor can Pause or Terminate the Exam to prevent impersonating of the candidates and avoid copying during the Exam.
- g. **Go To Webinar: To conduct** Live and Recorded Webinar sessions with the Participants across the Internet through proper Registration and Approval Process.
- h. **Online E-Databases:** University Library subscribed Online Databases, E-Journals and E-books to provide spontaneous and up-to-date information to the Users.

Note: RAKMHSU may opt for other System depending upon the requirement.

20 LOCATION MAP AND CONTACT DETAILS

Location Link:

<https://goo.gl/maps/1PGK3sSQ57EbfKQQA>



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H. E. Mohammed Hassan Omran Al Shamsi
RAKMSU Board of Governors



OATH



"We will maintain the utmost respect for human life, from the time of conception, until natural death, we will not use our Medical knowledge contrary to the laws of Humanity."



CONVOCATION

MOHAMMED FARAZ KHAN
RACOMS / MBBS (2015 - 2020)



CONVOCATION



