



Institute of Indigenous Medicine
University of Colombo

**BY-LAWS, REGULATIONS AND CURRICULUM OF THE BACHELOR
OF UNANI MEDICINE AND SURGERY (BUMS) DEGREE PROGRAMME
(EXISTING CURRICULUM)**

2019

By-Laws - Degree of Bachelor of Unani Medicine and Surgery (BUMS)

By laws made by the Council of the University of Colombo under section 135 of the Universities Act No.16 of 1978 as amended and read with Institute of Indigenous Medicine Ordinance No. 7 of 1979 and its subsequent amendments.

1. These By-Laws may be cited as the Degree of Bachelor of Unani Medicine and Surgery By- Laws No 24/2019.
2. These By- Laws shall come into operation with effect from 10.07.2019 as determined by the Council of University of Colombo

Introduction

- a). The Institute of Indigenous Medicine of the University of Colombo (hereafter referred to as the IIM) shall have authority to conduct programs leading to the degrees.
- b). Subject to the conditions laid down in these By –Laws, and the general Regulations and guidelines (hereafter referred to as the “Regulations”) enacted by the IIM, the prospectuses shall detailed the methodology of conducting the training program. The senate may, based on the recommendations of the IIM, amend and /or alter the prospectuses.
- c). Any registered student of the training program, upon successful completion of the training program, may become eligible for the award of Bachelor of Unani Medicine and Surgery (hereafter referred as “Degree”). IIM may recommend such a person/trainee to the Senate of the University of Colombo (hereafter referred to as the Senate) for award of BUMS.
- d). The Council of the University of Colombo shall have the authority to confer the degree on the recommendation of the Senate and the Board of Management of the IIM.
- e). Trainees are expected to maintain the highest standards of personal, professional and ethical conduct. Any report of misconduct shall be dealt with subject to the Regulations of the IIM.
- f). In the event of any discrepancy between the provisions laid down in these By-Laws, and Regulations, the provisions contained in these By-Laws shall prevail.

Part I – General

3. Subject to these By Laws, a student may be awarded the Degree of Bachelor of Unani Medicine and Surgery of the University of Colombo (hereafter referred as “University”), if she¹ has:
 - a). been admitted to the University as the student under section 15 (vii) of the Universities Act No. 16 of 1978;
 - b). Been a duly registered student of the University for the period prescribed by these By-Laws;
 - c). thereafter pursued the program of study in the University to the satisfaction of the Vice-Chancellor as prescribed by these By- Laws, and other Regulations and Rules of the University;
 - d). satisfied the examiners at the prescribed written examinations, practical, oral examinations, continuous assignments, and research project approved by the IIM;
 - e). paid such fees and any other dues as may be payable to the IIM or the University; and
 - f). fulfil all other requirements prescribed by these By Laws and the Regulations and Rules of the University

4. Administration of the Program

- (1).The IIM shall be in charge of the administration and general direction of the training Program of the Degree.
- (2).The Director of the IIM shall function, ex officio, as the Director of the program.
- (3). The Senate shall have power, on recommendation of the Board of management of the IIM, to change or amend or add to or delete the program of study or curricula, examinations, and to change or amend or add to or delete any rules and regulations relating to the program, where it is deem necessary. Due notice shall be given to the students of any such amendments, changes, additions, or deletions.
- (4).The program will be conducted as per the instructions and guidelines referred to in the relevant Regulations of the IIM.

1. Please note that the use of female pronoun here and elsewhere in these By-Laws refers to both male and female genders.

5. Eligibility for Admission to Program

No person shall be considered for admission to the Degree of Bachelor of Unani Medicine and Surgery program unless she has the following qualifications:

- (1).G. C. E. (Advanced Level) in Bio-Science Stream and should be in conformity with the criteria recommended by the University Grants Commission for the admission to the university.
- (2).Students who wish to read for the Degree of Bachelor of Unani Medicine and Surgery should not suffer from any mental or physical disability that may hinder the duties of the medical profession. Students are required to prove themselves as physically and mentally fit after a medical examination. The medical examination will be conducted by the Institute.
- (3).Foreign students are accepted for degree program under the guidelines of the University Grants Commission.

Part II – Course Structure

6. The program of study leading to BUMS Degree shall be a full time sixyear program is based on the semester system with two semesters per year. Each semester consists of 15 weeks of academic activities and assessment period.
7. The degree program is organized at five levels namely, Level I, Level II, Level III, Level IV, and Level V.
- 8.The program consists of 195 credits including the research project (180 core programe and 15 from optionalcourse units). Students will not be permitted to change their selection of optional course units of Level II and IV once the registration period for optional course units is over. Optional course unit will not be offered when there are less than five students registered for the particular optional course unit. Students who have registered for such optional course units will be given reasonable period of time to register for other available optional course units.

9. The Degree program is based on the course unit system consisting of compulsory subject course units and optional course units. Each course unit has a number of credits assigned to it depending on the course.

10. There shall be CA and Semester End Examination for each course units in a particular semester.

11. Course units are offered by eight Units of study of the IIM; Kulliyat, IlmuAdviya, Moalajat, TahaffuziwaSamajiTibb, Amraz e NiswanwaQabalatwaAtfal, IlmuJarajat, DeshiyaIlaj, And Allied Medical Sciences. These Units of study offer 60different course units. Research is offered by all eight units of study. In addition, English language and IT programs are offered by Language Unit and IT Centre of the IIM.

12. There shall be a course notation includes a two-letter abbreviation denoting the name of the Unit of study, followed by a four-digit number of which the first digit represents the level of study, the second digit the semester of the level, the third and fourth digits the serial number of the course unit.

13. Credit value assigned to a course unit on the basis of contact hours per semester. One credit unit is equivalent to either 15 hours of lectures or 30 hours of practical (clinical/laboratory/tutorials/field visits). A series of digits with in parenthesis following the course code indicate the number of lecture hours and practical hours

14. All lectures, practical and examinations related to course units will be conducted in English medium. In first and second Levels, assistance will be provided in Tamil whenever necessary.

15. Registration for next academic levels will be done as per the directions given by student welfare branch of IIM

Part III- Evaluation/Examination

16. Evaluation of the degree program will be conducted in the end of every semester in each level.

17. 1. Performance of a candidate at BUMS Degree program shall be evaluated through Continuous Assessment (CA) and Semester end examinations which consist of written examination, practical combined with viva-voce examination or a combination of any of the above.

2. The overall marks obtained by a student for a particular course unit is computed by adding the marks she has gained for CA and semester End Examination. The marks allocated to CA are 20 while 80 marks are allocated to Semester End Examination.

18. If Semester end examination contains written component:

1. Continuous Assessment (CA) – 20 marks
2. Semester end written examination – 100 marks

Calculation of final marks:

Course Unit with written component = $\{(X/100) \times 80\} + \text{CA marks}$
(Written paper marks (100) = X)

If Semester end examination contains written and viva voce;

1. Semester end written examination – 100 marks
2. Viva voce Examination – 20 marks

Calculation of final marks:

Course Unit without practical component = $\{(Y/120) \times 80\} + \text{CA marks}$
(Written paper marks (100) + viva voce marks (20) = Y)

If Semester end examination contains Written, Practical combine with Viva voce;

1. Semester end written examination – 100 marks
2. Semester end practical cum viva – 100 marks

Course Unit with practical component = $\{(Z/200) \times 80\} + \text{CA marks}$
(Written paper marks (100) + practical cum viva marks (100) = Z)

If Semester end examination contains Written and Practical;

1. Semester end written examination – 100 marks
2. Semester end practical – 80 marks

Subject with practical component = $\{(Q/180) \times 80\} + \text{CA marks}$
(Written paper marks (100) + practical (80) = Q)

19. Performance of students shall be graded and Point Value assigned as given in Table 1

Table 1: Grades and Grade Point values

Range of Marks	Grades	Grade Point Values
85-100	A+	4.0
70 - 84	A	4.0
65 - 69	A-	3.7
60 - 64	B+	3.3
55 - 59	B	3.0
50 - 54	B-	2.7
45 - 49	C+	2.3
40 - 44	C	2.0 *(pass)
35 - 39	C-	1.7
30 - 34	D+	1.3
25 - 29	D	1.0
0 - 24	E	0.0
Note: * minimum grade/grade point required to successfully complete a course		

GPA of a student in a Level is calculated by multiplying Grade Point Value he or she has earned for each Course Unit in that particular Level with its Credit Value. The total of the multiplied points of whole Course Units ($\sum C_{gi}$) of that particular Level is divided by the total of Credit Values of the whole Course Units ($\sum C_i$).

$$\text{GPA} = \frac{\sum C_{gi}}{\sum C_i}$$

e.g., a student who has completed a course of four subjects each 4 credits and two subjects each of 2 credits with grades of A+, C+, B, C+, A and B respectively would have the GPA.

$$\begin{aligned} \text{GPA} &= \frac{4 \times 4.0 + 4 \times 2.3 + 4 \times 3.0 + 4 \times 2.3 + 2 \times 4.0 + 2 \times 3.0}{4 + 4 + 4 + 4 + 2 + 2} \\ &= \frac{16 + 9.2 + 12 + 9.2 + 8 + 6}{20} \end{aligned}$$

$$\text{GPA} = 3.02$$

20. A minimum Grade Point Average of 2.00 has to be obtained by a student to complete successfully an examination of a Level in the Degree program and a minimum of Cumulative Grade Point Average of 2.00 has to be obtained cumulatively for all the examinations for a student to complete successfully the examinations leading to the Degree.

21. Cumulative Grade Point Average (Cumulative GPA) refers to the overall GPA, which is calculated by dividing the student's total earned Grade Points by the total Credit Values in the Degree program.

22. A student who obtained a grade below 'C' (Grade Point Value of 2.00) in a particular course unit may re-sit the examination in respect of that course unit for the purpose of improving the grade at the next available opportunity. All grades below 'C' and symbol "I" shall be improved in order to complete the semester examination successfully in each Level. However, the actual grade point value received by the student will be reflected in the transcript with a label [R] indicating that it was a repeat attempt.

23. If a student fails in the 1st semester and 2nd semester examination of the level I will be offered maximum of four attempts for each 1st and 2nd Semester of the level I to complete successfully (pass) the Level.

24. There will be no limitation on the number of attempts for re-sit examinations within which a student should successfully complete Levels II, III, IV, and V except that student should successfully complete all the Levels within a period of ten years from the first date of registration in the Degree program.

The re-sit Examinations will be held only once a year that is after the completion of teaching of the semester I and semester II respectively. A student who is not successful at the Semester I and/or Semester II examinations of the Levels II, III and IV respectively could repeat the same examination when it is held in the following year. There will be one re-sit examination conducted with respect of semester I and semester II of the level V within a period of three months of the ensuing respective semester. After the first re-sit examinations, the students who

25. Level IV research project evaluation

Preparation of project proposal	10%
Conducting the research project	20%
Seminar presentation	20%
Final project report	50%

26. A student who failed to meet the standards, such student shall re-submit the revised research project in the next semester or within the period specified by the respective Academic unit for reexamination

27. A candidate shall not be permitted to take Semester end examination unless,

1. She has followed at least 75% of the class held;
2. The Head of the Department has certified that she has successfully completed the course of studies leading to the examination by attending the required proportion of lectures, practical classes, and other forms of instructions;
3. Her application for entry to the examination has been accepted;
4. Registered with the examination branch of the IIM for the examination she intends to sit; and
5. Her student registration continues to be in force.

Part IV – Award of the Degree

28. No student shall qualify for the award of BUMS Degree unless she has:

- a. Successfully completed Semester Examinations
- b. Earned 195 credits within the stipulated period.
- c. Earned a GPA of not less than 2.00 for the entire Degree program
- d. Earned not less than C grade at the foundation courses (IT and English language).
- e. Successfully completed the Degree program is not less than five (05) years and not more than ten (10) years, and
- f. Successfully completed one (01) year internship according to the placement done by the Department of Ayurveda under their supervision.

29. At the end of internship, the student should produce a certificate to the Director of the Institute of Indigenous Medicine issued by the Commissioner of Ayurveda to the effect that he has successfully completed his internship.

The Board of Management of the Institute shall recommend the candidate to the Senate of the University of Colombo stating his eligibility for the conferment of the BUMS degree.

1. First class

A student shall be awarded First Class honours if he / she fulfill the following requirements:

1. An overall minimum Final Grade Point Average (FGPA) of 3.70
2. Complete the above requirement within 6 consecutive academic levels.

2. Second Class (Upper Division)

1. An overall minimum Final Grade Point Average (FGPA) of 3.30
2. Complete the above requirement within 6 consecutive academic levels.

3. Second Class (Lower Division)

1. An overall minimum Final Grade Point Average (FGPA) of 3.00
2. Complete the above requirement within 6 consecutive academic levels.

Passes 1. An overall minimum Final Grade Point Average (FGPA) of 2.00

Part V – Interpretation

30. In these By-Laws, unless the context requires otherwise:

“**The Act**” means the Universities Act No.16 of 1978 and its subsequent amendments

“**The Ordinance**” means the Institute of Indigenous Medicine Ordinance No.7 of 1979. and its subsequent amendments.

“**The University**” means the University of Colombo established under the Universities Act No.16 of 1978.

“**The Council**” means the Council of the University of Colombo.

“**The Senate**” means the Senate of the University of Colombo.

“**IIM**” means the Institute of Indigenous Medicine of the University of Colombo

“**Board of Management**” means the Board of Management of the Institute of Indigenous Medicine of the University of Colombo.

“**Program**” means the program of study leading to the award of Degree of Bachelor of Unani Medicine and Surgery.

“**Regulations**” means the General Regulations and Guidelines for undergraduates of the IIM.

“**FGPA**” means final grade point average

31. Any question or clarification regarding the interpretations of these By-Laws shall be referred to the Council of the University of Colombo which shall receive the observations of the Senate before making its decision. The decision of the Council there on shall be final.

32. The vice Chancellor of the University shall have the authority, in consultation with the Director/IIM, to take such action or give such direction not inconsistent with the principles underlying the provisions of these By-Laws, as appear to him/her to be necessary, expedient for the purpose of removing any difficulties that may arise in the interpretation of these provisions or for that which there are no provision in these By-Laws.

33. These By-Laws will be effective for students who register for the BUMS Degree program in 2010/2011 to 2016/2017.

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The contents of this course unit system were prepared by the Curriculum Development and Evaluation Committee of the Unani Section, Institute of Indigenous Medicine, University of Colombo.

Approved by the Board of Management of Institute of Indigenous Medicine at its 450th meeting held on 25th February 2019 and the Senate of the University of Colombo at its 438th meeting held on 1st April 2019.

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VISION STATEMENT OF THE INSTITUTE

**“To be a nationally and internationally acclaimed center of excellence in
Ayurveda, Unani and Traditional system of medicine in Sri Lanka”**

MISSION STATEMENT OF THE INSTITUTE

To achieve the highest standards of Health in its Physical, Mental, Social and Spiritual aspects by creating a disease free society by promoting, preventing, preserving and treating the sick while delivering primary health care services in strict accordance with the guidelines, strategies and methodologies of Unani, Ayurveda, Traditional and Allied Systems of Medicine.

2. History

Unani TibistheGreeko Arabian Medical system that was developed during Islamic civilization. Muslims call it as Unani (Ionian) Medicine gratefully acknowledging its origin whereas European historians call it as Arab Medicine.

The Arabic Medicine was a continuation and renaissance of Greek,Persian, Egyptian and Babylonian sciences.The exile Nestorians founded schools of medicine in Persia. The schools established in JundeShapur on the banks of the Euphrates served as the point of departure of medicine from Greek to Arabic.

During the period of the Omayyad Caliphs (first half of the 8th century) medical texts were translated from Greek into Persian and Arabic. Hunain (809 AD– 873AD), Al Razi (850AD – 925AD) Ali Ibn Sina (980AD –1037AD) contributed to the development of the system. Canon of Medicine (Al-Qanoon Fit Tibb) of Ali Ibn Sina has been the tandard medical text book in the Europe untill seventeen century. Hunain’s “Ten treatises on the Eye” is the earliest systematic text book of Ophthalmology. Al Razi’sNoteson Small Pox and Measles” gave the first-hand clear account of these two diseases.

The Arabs made three cardinal contributions to medicine viz. medicinal chemistry, organization of pharmacy and founding hospitals. They enriched the Greek medicine and this Arabic form of Greek medicine was transmitted to Europe through Latin translations.

Unani medicine or Arab medicine as European authors would call it remained true in Hippocratic principles. TheEurope referred to it as the “European Traditional System.” The Unani principle and Philosophy still exist even in Australia in the existenceof the Unani medical society of Australia.

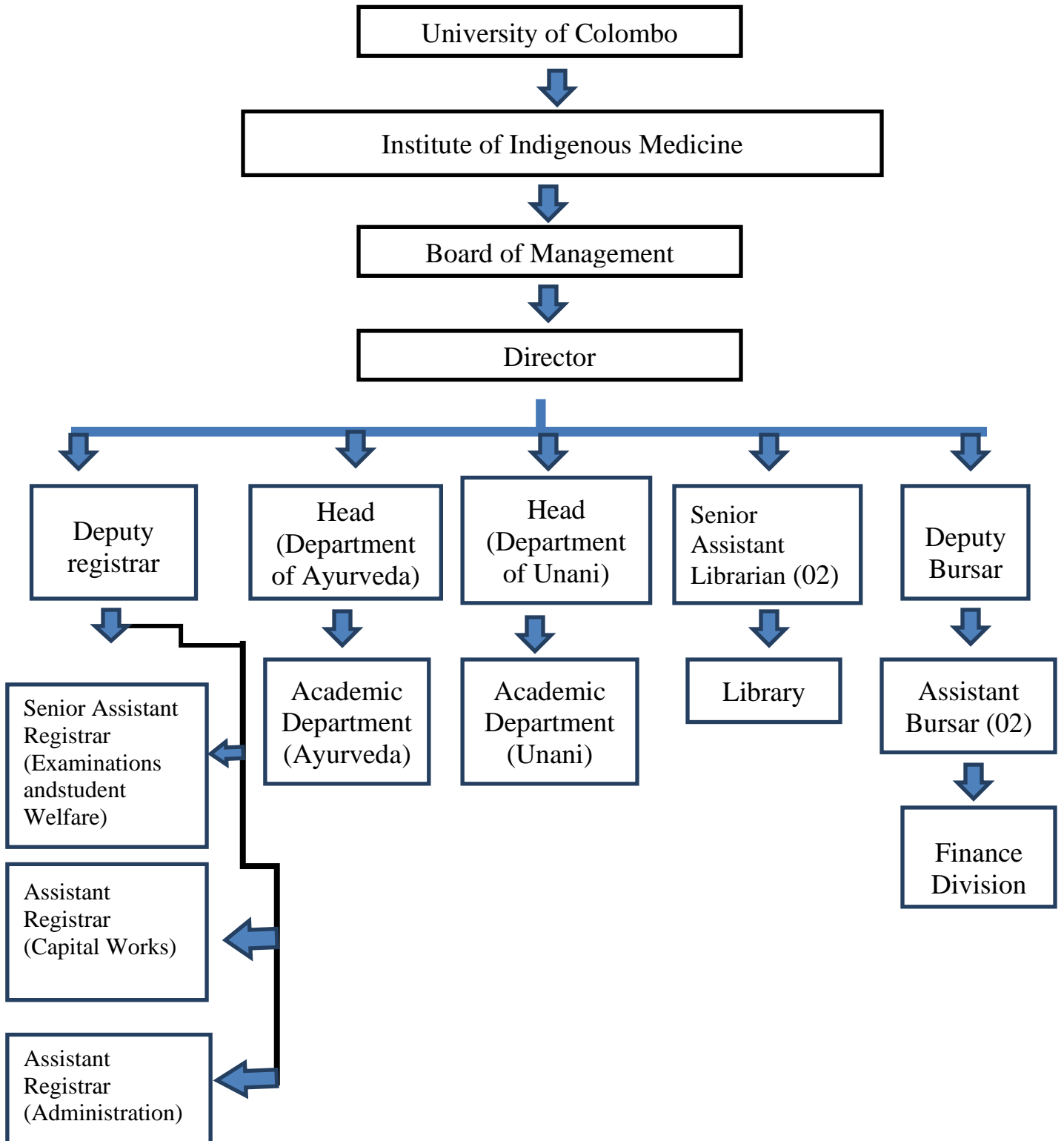
Unani Medicine in Sri Lanka

Unani medicine which was practiced by the Muslims of Sri Lanka has a long history going back to the 12th century AD. The Unani system of medicine was brought in by the Arabs when they settle down on the coast land of Serandib (Sri Lanka) between the 10th to 12thcenturiesAD.

In the 10th century AD, the prince Jamaluddeen, the son of Sulthan of Kenya in Asia Minor settled in Beruwala and practiced as a physician.

In 1929 the Unani section was established along with the Ayurveda and Siddha sections at the college of indigenous medicine due to the untiring efforts of Dr. K. Balasingam, Dr.M.A.Ahamed and Dr.H.M.Jaffer were got down from India as lecturers in Unani.They were instrumental in organizing and establishing Unani section at the college. Dr.H.M.Jaffer along with Sir Razik Fareed then a member of the Board of Indigenous Medicine strived to keep the Unani section at the college.Dr.H.M.Jaffer was the chief lecturer in the Unani section.Dr.M.H.M.Hafeel, Dr.M.A.M.Jalaldeen, Dr.M.I.William and Dr.H.Z.Jaffer succeeded him in the post of Head of Unani section. They all strived hard to develop the Unani section during their period.

3. Organizational Structure of the Institute



Officers of the Institute of Indigenous Medicine

Director	Senior Prof. Chair (Mrs) P A Paranagama	0112861399
Head, Department of Ayurveda	Dr. (Mrs) K C Perera	0112687215
Head, Department of Unani	Dr. B M Nageeb	0112873484
Deputy Registrar	Mr. Lalith Warnasooriya	0112697772
Assistant Registrar	Ms.H.D. Dissanayake	0115679709
Assistant Registrar	Mr. D S R M C P Gunawardene	0115679709
Deputy Bursar	Mr. T P Liyanarachchi	0112888213
Senior Assistant Bursar	Mr. H M D Punchibanda	0112888213
Senior Assistant Bursar	Mr. P H U Nissanka	0112888253
Senior Assistant Librarian	Mrs. C K Gamage	0112674854
Senior Assistant Librarian	Mrs. P M Ayomi	0112674854

4. Members of the Academic Staff - Unani Department

Kulliyat

Dr.M.C.M.Mahees DAMS, MD (Unani)	Senior Lecturer Gr I
Dr. (Mrs)M.I. Manuha BUMS, M Phil (Unani), PhD	Senior Lecturer Gr I
Dr. A.L.M. Ihsan BUMS, MD (Unani)	Lecturer
Mrs. A. R HasmathBA, MA	Lecturer

IlmulAdviya

Dr.BM.Nageeb DAMS, M Phil (Unani), PhD	Senior Lecturer Gr I
Dr.A.H.M.Mawjood DAMS, M Pharm, PhD	Senior Lecturer Gr I
Dr. M.M.M.Rifae Bums, M Phil (Unani)	Senior Lecturer Gr I
Dr. (Mrs)N.Fahamiya BUMS, MD (Unani)	Senior Lecturer Gr II
Dr.M.Nasmeer BUMS, MD (Unani)	SeniorLecturerGrII
Dr. (Mrs) M.N.F.RizniyaBUMS, M.Sc.	Senior Lecturer Gr II
Dr. (Mrs). E.M.G.K. NaseehaBegumBUMS	Lecturer (Prob)

Moalejat

Dr (Mrs) AWS Fowziya DAMS, M. Phil. (Unani)	Senior Lecturer Gr I
Dr (Mrs) M.L.U. Salma BUMS, MD (Unani)	Senior Lecturer Gr I
Dr. M.H.M. Nazeem BUMS, M Phil (Unani)	Senior Lecturer Gr I
Dr. S.M. Raeesuddeen BUMS, MD(Unani)	Senior Lecturer Gr II
Dr MSM ShiffaBUMS, MD (Unani)	Senior Lecturer Gr II
Dr (Mrs) A.M. Muthalib BUMS, PhD	Senior Lecturer Gr II
Dr.M.A.A. Sirajudeen BUMS, M Phil (Unani)	Lecturer
Dr. (Mrs)M.C.N. Razana BUMS, MD (Unani)	Lecturer (Prob)

TahaffuziwaSamaji Tib

Dr.M.H.M.Hafeel (BUMS, PGDHD, M Phil, MD (Unani)	Senior Lecturer Gr I
Dr. (Mrs)M.S.S.FawmiyaBUMS, PGDT, MPhil (Unani)	Senior Lecturer Gr II
Dr. (Mrs) A.A.RizwanaBUMS, MD(Unani)	Lecturer (Prob)

Amraz e Niswan, QabalatwaAtfal

Dr. (Mrs) M.U.Z.N. Farzana BUMS, MSc, MS (Unani)	Senior Lecturer Gr I
Dr. (Mrs) H.Nizamdeen DAMS, MD (Unani)	Senior Lecturer Gr II
Dr.M.H. FasluHaq BUMS, M Phil (Unani)	Senior Lecturer Gr II
Dr. (Mrs) J. Rumaiza BUMS, MS (Unani)	Senior Lecturer Gr II (Prob)

IlmulJarahat

Dr.(Mrs)A.H.A. Fazeenah BUMS,MD (Unani)	Senior Lecturer Gr II
Dr. (Mrs) A. F. M. Joonus BUMS	Lecturer (Prob)

Deshiyallaj

Dr. (Mrs) F.N. Jamaldeen BUMS

Lecturer (Prob)

Allied Sciences

Dr. A.L.M. Ihsan BUMS, MD (Unani)

Lecturer

Dr (Mrs) AHA Fazeenah BUMS, MD (Unani)

Senior Lecturer Gr II

Dr. (Mrs)J. Rumaiza BUMS, MS (Unani)

Senior Lecturer Gr II (Prob)

Dr. (Mrs) A. F. M. Joonus BUMS

Lecturer (Prob)

5. CURRICULUM OF BUMS DEGREE PROGRAMME

The name of the degree is Bachelor of Unnai Medicine and Surgery (BUMS),

ශ්‍රීකාන්ති වෛද්‍ය සහ ශල්‍යවේදී උපාධිය, யூனானி வைத்திய மற்றும் சத்திரசிகிச்சை இளமானி

The curriculum is designed keeping SLQF Level 6 standard as it is a six year professional course including an internship (Period of Internship is one year which consists of nine months of training at various Ayurvedic hospitals and the remaining three months under two Traditional Physicians in specialized subjects). This is a ten semester degree programme consists of 195 credit units including the research project.

This document is the revision of 2011 curriculum which was approved by the Senate of University of Colombo at its 438th Meeting held on 01/04/2019.

6. Objectives of the Degree Programme

At the completion of BUMS course, the graduates will be able to:

1. Apply knowledge, skills and attitudes of medical sciences based on Unani and Traditional medicines.
2. Offer better health services to the public preserving the salient characteristics of Unani and Traditional systems of medicine within the framework of national health system to suit the needs of present society.
3. Manufacture medicines by applying knowledge of conventional methods and modern technology with the maximum utilization of local resources based on Good Manufacture Practice.
4. Diagnose medical and surgical emergencies and give initial management and refer to the appropriate centers.
5. Maintain the highest standard of professionalism as prescribed in legal medicine.
6. Carry out scientific research on Unani and the Traditional medical systems.

7. Graduate Profile

Newly qualified Doctors should demonstrate following capabilities;

1. Professional Values and Behavior
 - a. Professional, ethical and legal medical practice
 - b. keep patient safety as a main concern
 - c. leadership and teamworking
2. Professional Skills
 - a. Communication and interpersonal skills
 - b. Diagnosis using knowledge and modern technology
 - c. Management of diseases effectively and safely
 - d. Timely referral of patients who need expert and advanced care
 - e. Continuous professional development
3. Professional Knowledge
 - a. Adequate knowledge of Unani and modern Medicine
 - b. Knowledge on current health system in the country and Unani doctor's role
 - c. Apply Unani health promotional principles and treatment principles for the betterment of patients
 - d. Updated knowledge on evidence-based medical practice
 - e. Health research and scholarship

8. Admission Requirements

The candidate should have met all the following criteria:

8.1 Admission of Local Students

G. C. E. (Advanced Level) in Bio-Science Stream and should be in conformity with the criteria recommended by the University Grants Commission for the admission to the university

8.2 Medical Fitness

Students who wish to read for the Bachelor's degree in Unani Medicine and Surgery should not suffer from any mental or physical disability that may hinder the duties of the Medical Profession. Students are required to prove themselves as physically and mentally fit after a medical examination. The medical examination will be conducted by the Institute.

9.3 Admission of Foreign Students

Foreign students are admitted for degree programme under the guidelines laid down by the University Grants Commission of Sri Lanka.

8.4 Annual Intake

Fifty (50) students (May subjected to change according to UGC annual intake)

8.5 STRUCTURE OF THE DEGREE PROGRAMME

The name of the degree is Bachelor of Unani Medicine and Surgery (BUMS). This full-time programme spreads over a period of five years course work and one year of internship.

The degree programme is based on the course unit system consisting of compulsory course units and optional course units. Each course unit has been assigned number of credits on the basis of the weight of the course unit. The core programme of the degree is offered by the eight units of studies for the duration of ten semesters. The core programme consists of 195 credits (180 credits from compulsory course units including research component and 15 credits from optional courses units). In addition to above mentioned credited courses a set of foundation courses are offered to impart satisfactory proficiency in English and Information Technology among all students. While these courses are not credited for the degree programme, it is mandatory for every student to pass the foundation courses for the completion of the degree programme. Certificates will be awarded for English and Information Technology, upon successful completion.

The compulsory research project comprising of six credits has to be completed in the 8th semester.

The degree will be awarded upon the successful completion of the course work and one year internship.

9. Description of Specific Terms

9.1 Semester

The academic programme is based on the semester system which consists two semesters per year. Each semester consists of 15 weeks of academic activities; teaching and learning. Examinations will be conducted at the end of each semester.

9.2 Course Unit

This is a programme taught within a semester consisting of one or more contact hours per week. A contact hour is defined as an hour of lectures / practical /tutorial etc.

9.3 Levels

The academic programme is organized at five levels; Level I, II, III, IV and V. Each level consists of two semesters and each semester consists of fifteen academic weeks

Semester 1		Semester 2	
First half	08 weeks	First half	08 weeks
CA I	01 week	CA II	01 week
Second half	07 weeks	Second half	07week
Study leave	02 weeks	Study leave	02 weeks
Examination	05 weeks	Examination	05 weeks
Vacation	03 weeks	Vacation	03weeks

9.4 Credit

The abstract value assigned to a course unit on the basis of contact hours is called a credit. One credit unit is equivalent to either 15 hours of lectures or 30 hours of practical (OPD / IPD/Laboratory / tutorials/field visits). A series of digits within the parenthesis following the course code indicate the number of lecture hours and practical hours.

e.g. 2 credit containing 15 hours of lectures and 30 hours practical will be denoted as (2:15/30).

10. Medium of Instruction

All lectures, practical, and examinations related to course units will be conducted in English medium. In first and second years, whenever necessary, assistance will be provided in Tamil.

11. Teaching and Learning Methods

Students gain their knowledge and skills during 05 years using following teaching and learning methods; Interactive lectures, Independent learning activities, team-based learning, and other small group activities, Problem-based learning, practical classes, inquiry-based learning, laboratory sessions, Group projects and Student presentations.

Students have the accessibility to theory knowledge and practical guidelines via LMS (Learning Management System), library and skill laboratory. Students' Clinical training is carried out mainly in the OPD and IPD of National Ayurveda Teaching Hospital Colombo-08.

Clinical Training at External Centres

Students get a chance to update their knowledge and skills of current patient management in modern hospitals. Under this program students get exposure in hospitals and centers;

- i. National Hospital Colombo (Sexually Transmitted Disease Control Clinic, Leprosy clinic)
- ii. Welisara Chest Hospital,
- iii. Medical research Institute, Borella
- iv. Base Hospital Angoda (Infectious Disease Hospital),
- v. Hendala Leprosy Hospital,
- vi. National Cancer Hospital, Maharagama
- vii. National Institute of Mental Health, Angoda
- viii. Castle Street Hospital for Women.
- ix. De Soyza Maternity Home, Colombo.
- x. Cancer Early Detection Center, Narahenpita.
- xi. Rajamalwatta Maternity Home, Mattakuliya
- xii. Wanatmulla maternity home, Borella

Field Visits

Field visits of Department of Unani have a long history and they have been practiced and improved till date under deferent academic units. Following table shows the field visits with the responsible academic units and the student groups benefited by the same.

Sites of Field Visits

Academic Unit responsible	Site of Field Visit	Student group exposed
IlmulAdvia (IA)	Ganewatta Herbal Garden	Level I
	Peradeniya Botanical Garden	
	Haldummulla and Pattipola Herbal Gardens	Level II
	Nawinna Drug Cooperation	

	Link Natural (Pvt) Ltd	Level III
TahaffuziwaSamaji Tib (TST)	Ambathale and Kalatuwawa Water Purification Plants	Level III
	Dematagoda Slaughter House, CMC	
	School Health Awarenessprogrammes	
	National Zoological Garden, Dehiwala	
	Drug Abuse Treamnet Centers	Level IV
Deshiyallaj (DI)	Visit to Traditional Physicians' Clinics	Level IV

Community Based Clinical Training

Students are exposed to the health camps organized by the academic staff at selected areas in the country and students get community based clinical exposure while delivering a service to the target community.

Subjects offered

Subject course units are offered by eight academic units of the institute namely; *Kulliyat, IlmuAdviya, Moalejat, TahaffuziwaSamajiTib, IlmuJarachat, Amraz e Niswan, QabalatwaAtfal, Deshiyallaj* and Modern Sciences. These academic units offer 60Course units. In addition, English language and Information Technology are offered by Language Centre and IT centre of the institute respectively.

Course Notation

The course notation includes two letters abbreviation denoting the unit of study. The first twodigits denote level of study, the semester respectively and the last two digits are for course unit serial number.

Eg: KU1101denotes name of the academic unit, level, semester and the serial number of the course unit.

12. Name of the Academic Units

- I. Unit of Kulliyat- KU
- II. Unit of IlmuAdviya -IA
- III. Unit of Moalajat -MJ
- IV. Unit of TahaffuziwaSamaji Tib- TS
- V. Unit of Amraz e NiswanwaQabalatwaAtfal -NQ
- VI. Unit of IlmuJarachat-IJ
- VII. Unit of Deshiyallaj-DI
- VIII. Unit of Allied Medical Sciences-AS

13. Allocation of Courses under the Academic Units

Unit of Kulliyat-KU

1. FalsafawaMantiq –KU1101
2. Al UmooralTaba’iyya –KU1102, KU1202
3. TareekheTibwa Akhlaqiyya-KU1103, KU1203
4. Urdu wa Arabic language –KU1104, KU1204, KU2104, KU2204

Unit of IlmulAdviya -IA

1. Kulliyat e Adviya-IA1101, IA1201
2. MufradAdvia -IA2101, IA2202
3. DawaSazi (Pharmacy) -IA3103, IA3203
4. KushtaSazi (Mineralogy) –IA3104, IA3204

Optional:

5. Nutrition and Food cum Medicine –IA2205
6. Agro Techniques of Medicinal Plants -IA2206
7. Industrial Drug Manufacture –IA2207

Unit of Moalajat -MJ

1. Usool e TashkheeswaSareeriyat –MJ3101, MJ3201
2. Kulliyat e Ilaj (Fundamentals of Treatment) –MJ3102, MJ3202
3. Moalejat (Unani Clinical Medicine)-MJ4103, MJ4203, MJ5103, MJ5203

Optional:

4. Psychology and Counseling-MJ4104
5. Massage and Physical Therapy-MJ4205
6. Panchkarma –MJ4206

Unit of TahaffuziwaSamaji Tib-TS

1. TahaffuziwaSamaji Tibb-TS3101, TS3201
2. Research Methodology and Bio Statistics –TS 2102, TS2202
3. IlmusSumoom (Toxicology) –TS 4103, TS4203

Optional:

5. Herbal Beauticulture-TS4105
7. Drug Abuse Management-TS4207

Unit of IlmuJarahat-IJ

1. IlmuJarahat (Unani Surgery) -IJ5101, IJ5201
2. Amraz e Ain, Anf, Uzn, waHalq (ENT, Ophthalmology and Orthodontology)- IJ5102, IJ5202

Unit of Amraz e NiswanwaQabalatwaAtfal -NQ

1. IlmuAtfal (Unani Paediatrics) –NQ5101, NQ5201
2. Amraz e NiswanwaQabalat (Unani Gynecology&Obstretics) –NQ5102, NQ5202

Unit of DeshiyaIlaj -DI

DeshiyaIlaj -DI4101, DI4201

Unitt of AlliedMedical Sciences-AS

1. Anatomy–AS1101, AS1201, AS2101
2. Physiology–AS1102, AS1202, AS2101
3. Pathology -AS3103, AS3203
4. Principles of Clinical Medicine- AS4104, AS4204
5. Forensic Medicine –AS4105, AS4205

Foundation course units

Language Centre	EN 1000	English -I
	EN 2000	English -II
Information Technology Centre	IT 1000	Introduction to Computer application
	IT 2000	Computer application

14. REGISTRATION FOR COURSES

Registration for an academic year commences one week prior to the start of the first semester and continues during the first two weeks. Selection of optional course units at Level II and IV must be done very carefully as students will not be permitted to change their selections once the registration period is over. Optional course units having less than five students will not be conducted and students who have registered for such course units are permitted to register for another available course units during the registration period.

Eligibility for Subsequent Level

Students are required to meet the eligibility in each level in order to proceed to the subsequent level. If a student fails to meet the eligibility, he/she will not be permitted to register for the subsequent level. The students who have not met the eligibility should repeat the particular course units until he/she meets the eligibility.

A student should obtain a minimum GPA of 2.00 at the previous level to be eligible to the subsequent level.

15. Evaluation Procedure

Each course unit will be evaluated by Continuous Assessment (CA) and a Semester end examination which consist of written, viva and practical components. Allocation of marks as follows.

If Semester end examination contains written component:

1. Continuous Assessment (CA) – 20 marks
2. Semester end written examination – 100 marks

Calculation of final marks:

Subject with written component = $\{(X/100) \times 80\} + \text{CA marks}$

(Written paper marks (100) = X)

If Semester end examination contains written and viva voce;

1. Semester end written examination – 100 marks
2. Viva voce Examination – 20 marks

Calculation of final marks:

Subject without practical component = $\{(Y/120) \times 80\} + \text{CA marks}$

(Written paper marks (100) + viva voce marks (20) = Y)

If Semester end examination contains Written Practical cum Viva (Practical combine with Viva voce)

3. Semester end written examination – 100 marks
4. Semester end practical cum Viva– 100 marks

Subject with practical component = $\{(Z/200) \times 80\} + \text{CA marks}$

(Written paper marks (100) + practical cum Viva Marks(100) = Z)

If Semester end examination contains Written and Practical;

5. Semester end written examination – 100 marks

6. Semester end practical– 80 marks

Subject with practical component = $\{(Q/180) \times 80\} + \text{CA marks}$

(Written paper marks (100) + practical (80) = Q)

Written component of the Semester end examination

The theory component of course unit will be assessed by Continuous Assessment (CA) and an end semester written examination. The duration of this examination will vary according to the number of credit units as follows:

1 Credit unit	1 hr
2 Credit units	2 hrs
>2 Credit units	3 hrs

Guidelines for the structure of the question papers

One Hour Question Paper

Question type	No.	Duration	Marks
Structured	2	30 minutes	40%
Essay	1	30 minutes	60%

Two Hour Question Paper

Question type	No.	Duration	marks
MCQ	20	30 minutes	20%
Structured	2	30 minutes	40%
Essay	2	1 hour	40%

Three Hour Question Paper

Question type	No.	Duration	marks
MCQ	20	30 minutes	20%
Structured	6	} 2 ½ hr	40%
Essay	2		} 40 %

16. Recognized Methods of Continuous Assessment (CA) Under Academic Units

CA will be conducted in addition to Semester end examinations. The guidelines for CA will be prepared by the academic unit concerned. Students are requested to complete and submit all the CAs in order to sit for the semester end examinations. Twenty percent (20%) will be added for the final marks from the Continuous Assessment in the each respective Semester end examination.

If a student is unable to sit for a particular CA with reasonable ground, he/she should inform the Head (Unani) through academic unit concerned within the period of CA. In addition, if student is absent for the CA with medical reason, he/she shall be informed to the medical officer and submit the medical certificate within 07 working days. Only on acceptable reason, student will get a chance to complete the CA in next year. Results will be withheld and released after the completion of CA.

Recognized Methods of Continuous Assessment (CA) Under Academic Units

Academic Unit of Kulliyat

Level	Couresunit	Semester	Type of question	Number of questions	Duration
Level I	FalsafawaMantiq	Semester 1	MCQ+SEQ	20+02	60 min.
		Semester 2	SEQ	2	30 min.
	Al Umoor Al Taba'iyya	Semester 1	MCQ+SEQ	20+02	60 min.
		Semester 2	MCQ+SEQ	20+02	60 min.
	Tareekh e TibwaAkhlaqiya	Semester 1	MCQ+SEQ	20+02	60 min.
		Semester 2	SEQ	02	30 min.
	Urdu and Arabic Language	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.

Academic Unit of Allied sciences

Level	Courseunit	Semester	Types of question	Number of questions	Duration
Level I	Anatomy I&II	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
	Physiology I&II	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
Level II	Anatomy III	Semester 1	SEQ	04	60 min.
	Physiology III	Semester 1	SEQ	04	60 min.
Level III	Pathology	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
Level IV	Principles of Clinical Medicine	Semester 1	SEQ	04	60 min
		Semester 2	SEQ	04	60 min

	Forensic Medicine	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.

Academic Unit of IlmuAadviya

Level	Courseunit	Semester	Type of question	Number of questions	Duration
Level I	Kulliyat e Adviya	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
Level II	MufridAdviya	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
	Nutrition and Food cum Medicine	Semester 2	SEQ	02	30 min.
	Agro Techniques of Medicinal Plants	Semester 2	SEQ	02	30 min.
	Industrial Drug Manufacture	Semester 2	SEQ	02	30 min.
Level III	Dawa Sazi	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
	KushtaSazi	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.

Academic Unit of TahaffuziwaSamaji Tib

Level	Courseunit	Semester	Type of question	Number of questions	Duration
Level II	Research methodology and Bio statistics	Semester 1	SEQ	02	30 min.
		Semester 2	SEQ	02	30 min.
Level III	TahaffuziwaSamaji Tib	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	04	60 min.
Level IV	Ilmusumoom	Semester 1	SEQ	04	60 min.
		Semester 2	SEQ	02	30 min
	Herbal beauty culture	Semester 1	SEQ	02	30 min
	Drug Abuse Management	Semester 2	SEQ	02	30 min

Academic Unit of Moalejat

Level	Courseunit	Semester	Type of question	Number of questions	Duration
Level III	Usool e TashkheeswaSareeriyat	Semester 1	SEQ	4	60 min
		Semester 2	SEQ	4	60 min
	Kulliyat e Ilaj	Semester 1	SEQ	4	60 min
		Semester 2	SEQ	4	60 min

Level IV	Moalejat-I &II	Semester 1	SEQ	4	60 min
		Semester 2	SEQ	4	60 min
	Psychology and Counseling	Semester 1	SEQ	4	60 min
	Panchakarma	Semester 2	SEQ	4	60 min
	Massage and Physical therapy	Semester 2	SEQ	4	60 min
Level V	Moalejat-III& IV	Semester 1	SEQ	4	60 min
		Semester 2	SEQ	4	60 min

Academic Unit of DeshiyaIlaj

Level	Courseunit	Semester	Type of question	Number of questions	Duration
Level IV	DeshiyaIlaj	Semester 1	SEQ	4	60 min
		Semester 2	SEQ	4	60 min

Academic Unit of Amraz e NiswanwaQabalatwaAtfal

Level	Courseunit	Semester	Type of question	Number of questions	Duration
Level V	IlmulAtfal	Semester 1	SEQ	4	60 min
		Semester 2	SEQ	4	60 min
	Amraz e NiswanwaQabalat-I	Semester 1	SEQ	4	60 min
	Amraz e NiswanwaQabalat -II	Semester 2	SEQ	4	60 min

Academic Unit of IlmulJarajat (Surgery)

Level	Courseunit	Semester	Type of question	Number of question / stations	Duration
Level V	IlmulJarajat (Unani Surgery)	Semester 1	SEQ	4	60 min
		Semester 2	OSPE	20	60 min
	Amraz e Ain, Anf, Uzn, waHalq	Semester 1	SEQ	4	60 min
		Semester 2	OSPE	20	60 min

Practical and Viva Voce examinations of End Semester Examinations

If the course unit evaluation consists of both practical and viva voce components then they will be assessed together. If the course unit is evaluated by written and viva voce, then 5 minute viva voce examination will be conducted by the relevant Academic unit.

Viva/ Practical combined with viva component (practical cum viva) of the Semester end examinations will be assessed in the following manner by each Academic unit

Viva/ Practical cum viva of the End Semester examinations will be assessed by the following criteria

Academic Unit	Course unit	1 st End Semester evaluation method: Viva / Practical cum viva	2 nd End Semester evaluation method: Viva / practical cum viva
Kulliyat	FalsafawaMantiq	Viva voce (5 Min)	Viva voce (5 Min)
	Al Umoor al Taba'iyya	Viva voce (5 Min)	OSPE -10(60 min.)
	Tareekh e TibbvaAkhlaqiyya	Not Applicable	Not Applicable
	Urdu va Arabic Language	Not Applicable	Not Applicable
IlmulAdvia	Kulliyat e Advia	OSPE– 30 stations(60 Min)	OSPE-30 stations (60 Min)
	MufradAdvia	OSPE-20 stations(60 Min)	OSPE-20 stations(60 Min)
	DawaSazi	OSPE-01 station 60 min	OSPE-01 station 60 min
	KusthaSazi	OSPE-20 stations(60 Min)	OSPE-20 stations(60 Min)
	Nutrition and Food cum Medicine	Not Applicable	Viva voce (5 Min)
	Agro Techniques of Medicinal Plants	Not Applicable	OSPE-20 stations (60 Min)
	Industrial Drug Manufacture	Not Applicable	OSPE – 20 Stations (60 min.)
Allied Medical Sciences	Anatomy	OSPE – 15 Stations (60 min.)	OSPE – 15 Stations (60 min.)
	Physiology	OSPE – 15 Stations (60 min.)	OSPE – 15 Stations (60 min.)
	Pathology	OSPE – 15 Stations (60 min.)	OSPE – 15 Stations (60 min)
	Principles of Clinical Medicine	OSCE- Long case - 01- 45 min	OSCE- Long case -01

			45 min
	Forensic Medicine	Viva voce- (5 Min)	Viva voce- (5 Min)
TahaffuziwaSamajiTibbwalilmusSumoom	Research Methodology and Bio Statistics	Not Applicable	Not Applicable
	TahaffuziwaSamajiTibb	OSCE-Short case - 01 (20 Min)	OSPE-15 stations (60 Min)
	IlmusSumoom	OSPE-20 stations (60 Min)	OSPE-15 stations (60 Min)
	Herbal Beauty Culture	OSPE -01 station (20 Min)	Not Applicable
	Drug Abuse Management	Not Applicable	OSCE-01 (20 Min)
Moalejat	UsooleTashkheeswaSa reeriyat	OSCE - Long case - 1(60 min)	OSCE -Long case-1 (60 min)
	Kulliyat e Ilaj	OSCE - Long case- 1(60 min)	OSCE - Long case -1(60 min.)
	Moalejat- I & II	OSCE- Long case - 1 (60min)	OSCE -Long case -1 (60 min)
		OSCE Long case - 1(60 min.)	OSCE - Long case -1 (60 min.) and short cases -4 (Each 10 min.)
	Psychology and Councelling	OSCE - 1 (30 min)	Not Applicable
	Panchakarma	Not Applicable	OSPE – 1 (30 min)
	Massage and Physical therapy	Not Applicable	OSCE- Short case-1 (30 min)
Deshiyallaj	Deshiyallaj	OSCE Long case - 1(60 min)	OSCE Long case-1 (60 min)
Amraz e NiswanwaQabalatwaAtfal	IlmulAtfal	OSCE Long case - (60 min)	OSCE Long case - (60 min)
	Amraz e NiswanwaQabalat-	OSCE Long case - (60 min)	OSCE Long case - (60 min)
IlmulJarahat	IlmulJarahat (Unani Surgery)	OSCE Long case - (60 min)	OSCE Long case - (60 min)
	Amraz e Ain, Anf, Uzn, waHalq	OSCE Long case - (60 min)	OSCE Long case - (60 min)

17. EVALUATION OF FOUNDATION COURSES

English will be evaluated by a continuous assessment, written and viva voce examinations. Basic, Intermediate and Advanced IT courses will be evaluated by continuous assessment, written and practical examinations.

18. Research Project

At the beginning of the 7th semester, students should register for a research project worth of 6 credits and should complete in 8th semester. The selection of the research project, supervision and the evaluation will be done by the respective Academic unit of study under the supervision of the Head of Department of Unani.

Research component will be assessed continuously, and marks will be allocated as follows:

Preparation of project proposal - 10%

Conducting the research project - 20%

Seminar presentation - 20%

Final project report - 50%

19. Assignment of Grades, Grade Point and GPA

Grade Point Values

The range of marks is partitioned into a sequence of suitable sub range and the sub ranges are designated by the symbols A+, A, A-, B+, B, B-, C+, C, C-,D+, D and E. These are called grades and grade points are assigned according to the following table:

Range of Marks	Grades	Grade Point value
85-100	A+	4.0
70-84	A	4.0
65-69	A-	3.7
60-64	B+	3.3
55-59	B	3.0
50-54	B-	2.7
45-49	C+	2.3
40-44	C	2.0
35-39	C-	1.7
30-34	D+	1.3
25-29	D	1.0
0-24	E	0.0

Grade Point Average (GPA)

The overall performance of the students is assessed by calculating the Grade Point Average (GPA). All course units are weighted according to their corresponding credit values. GPA is the weighted mean of Grade Points obtained by a student for course he/she has offered. GPA shall be computed to the second decimal place and is an indicator of the academic performance of the student. Grades of all registered course units in a study programme are taken into account when calculating the GPA.

Calculation of GPA

The grade submitted by the lecturer will be reviewed by a three-member committee comprising of the Head of the Unani Section, Head of the Unit concerned, and lecturer concerned.

GPA is determined by dividing the total credit-weighted grade point value (ΣCg) by the total number of Credits (ΣC).

$$\text{GPA} = \Sigma Cg / \Sigma C$$

e.g., a student who has completed a course of four subjects each 4 credits and two subjects each of 2 credits with grades of A+, C+, B, C+, A and B respectively would have the GPA.

$$\text{GPA} = \frac{4 \times 4.0 + 4 \times 2.3 + 4 \times 3.0 + 4 \times 2.3 + 2 \times 4.0 + 2 \times 3.0}{4 + 4 + 4 + 4 + 2 + 2}$$

$$4 + 4 + 4 + 4 + 2 + 2$$

$$\frac{16 + 9.2 + 12 + 9.2 + 8 + 6}{20}$$

$$20$$

$$\text{GPA} = 3.02$$

Other Type of Grade

Grade I: (Incomplete)

Grade I: A grade "I" may be given, if the student was unable to complete the course unit due to acceptable reasons and the work in the course unit is sufficiently completed and of good quality.

Records should be kept in the respective Unit regarding the reasons for this grade and a scheme for its removal. A student should remove the grade "I" within one year of its recording. If the student fails to upgrade the grade "I" at least to a grade C, with in the stipulated time, the Head of the Unani section will declare that it is changed to a grade E. If the grade I was given because the

student was unable to sit the final examination, he/she may be allowed to upgrade it by sitting the examination at a later stage with the approval of the relevant lecturer in consultation with the Unit Re-Sit Examinations

A student who obtained a grade below 'C' (Grade Point Value of 2.00) in a particular course unit may re-sit the examination in respect of that course unit for the purpose of improving the grade at the next available opportunity. All grades below 'C' and symbol "I" shall be improved in order to complete the semester examination successfully in each Level.

Level I

If a student fails in the 1st Semester end and 2nd Semester end examination of the level I; He/She will be offered maximum of three further attempts within two years from the date of registration for each 1st and 2nd Semester of the level I to complete successfully (pass) the Level.

Levels II, III, IV, and V

There will be no limitation on the number of attempts for re-sit examinations within which a student should successfully complete Levels II, III, IV, and V except that student should successfully complete all the Levels within a period of ten Academic years from the date of completion of Level I.

The re-sit Examinations will be held only once a year that is after the completion of teaching of the semester I and semester II respectively. A student who is not successful at the Semester I and/or Semester II examinations of the Levels II, III and IV respectively could repeat the same examination when it is held in the following year.

Special Re-Sit Examination – Level V

There will be one re-sit examination conducted with respect of semester I and semester II of the Level V. These re-sit Examinations of semester I and semester II of the Level V shall be held within a period of three months of the ensuing respective semester i.e. the re-sit examination of semester I shall be held in the middle of semester II and the re-sit examination of semester II shall be held in the middle of semester I of the following year. After the first re-sit examinations, the students who fail to complete the semester I and/or semester II of the level V have to sit for the respective re-sit examination when they are held in the following year.

Allocation of Grade at the Re-Sit Examination

The maximum grade offered for a course unit in a re-sit examination is grade 'C'. Therefore, the grade point value representing the minimum pass (i.e., 'C' Grade value) will be taken into account when a student passes a course unit at a repeat attempt (Re-sit examination), in calculating the GPA and cumulative GPA for the purpose of passing an examination of any level and for the purpose of passing all the examinations leading to the degree and awarding of class. This is notwithstanding the fact that he or she had received a higher grade point value for the repeat course unit.

However, the actual grade point value received by the student will be reflected in the transcript with a label [R] indicating that it was a repeat attempt.

Attendance

Students must have at least 75% of attendance in lectures and practical classes to sit for corresponding examinations.

Students with attendance of 65%-74% will be permitted for examination only in exceptional circumstances created on medical/acceptable grounds.

Students who do not have the required attendance will not be allowed to sit for the corresponding examination and shall sit for the examination in the next scheduled examination as re-sit candidate.

Medical and other reasons

Illness during academic period

If student is ill during academic period, he/she should inform to the Institute Medical Officer (IMO) designates as early as possible, preferably within in a period of three days. Medical certificates provided without prior notice is not considered for the attendance.

Illness at examination period

A student who is unable to appear in the examination due to a medical or other reason should inform the Deputy Registrar (Examination) immediately, preferably within in a period of three days. If the student is unable to do so, he/she should inform the Head of the Unani Department in writing by registered post as early as possible and submit a valid medical certificate within seven days of falling ill.

Persons entitled to issue valid medical certificates for the above purposes;

- I. Institute Medical Officer
- II. One of the university medical officers (UMO) designates.
- III. A Consultant in any Government hospital
- IV. A District Medical Officer (DMO)
- V. Any other medical certificate accepted by the Institute Medical Board.

If a student is unable to sit for the examination due to medical reasons, he/she should submit a valid medical certificate within 07 days.

The medical certificate is valid only for the respective period stipulated in the medical certificate. When a student produces medical certificate more than once he or she shall have to appear before a Medical Board appointed by the Institute. The report of the medical board will be submitted to the UnaniSectional committee for the recommendation. The decision of the board of management is final.

Other Reasons

When a student provides a reason other than medical for not appearing for the examination, he/she should have to support the reason with evidence.

The reasons supported by the evidence will be referred to the recommendation of the Unani Sectional committee, Board of Management and Senate for the final decision.

Number of Attempts on Medical or other Reasons

Where a student submits an acceptable medical certificate or documentary evidence of any valid excuse, which are acceptable to the Institute, for not taking a course unit in the first attempt or any subsequent attempt, that attempt will not be counted as an attempt for purpose of calculating the number of attempts at which a student can sit for the examination. In that instance, the result of the examination will not be released but withheld until the student sits for the missed Course Unit and thereafter the result shall be released.

However, where a student absents himself or herself from sitting a course unit without any valid excuse acceptable to the institute, it will be deemed as an exhausted attempt and nil marks will be given to the course unit and the GPA will be calculated and the result will be released. In that

instance, he or she will be deemed to have failed that course unit and he or she has to repeat the examination of the course unit in the subsequent attempt, provided he or she is eligible to take the examination of the course unit.

Duration for completion of Academic Programme

Students should complete their degree programme within a specific number of semesters. The minimum period for the academic programme shall be Ten (10) semesters. If a student is unable to complete within the stipulated semesters, period of completion shall be extended for a maximum of twenty (20) semesters (10 years) from his/her first registration.

20. Criteria for Awarding Degree

A student must complete minimum of 195 credits within the stipulated period for the award of the degree. 15 credits of these can be selected from optional course units. In addition, the student must have:

- I. obtained a minimum Final Grade Point Average (FGPA) of 2.00.
- II. obtained a minimum of C grade at the foundation course units.
- III. obtained a minimum of C grade at each course unit.
- IV. completed the relevant requirements within a maximum period of ten academic years.
- V. completion of one-year internship successfully

Note:

1. However, a student can be awarded the degree upon completion of them above I-IV criteria on a written declaration by him/ herself that he/she is not willing to undergo internship and that should be recommended by the Board of Management.
2. Grades obtained by a student for all the course units offered except for the foundation courses shall be considered in the computation of final GPA.

Award of Honours

A student who has fulfilled all the conditions stipulated in “Criteria for Awarding Degree” and not guilty of committing any offences should be awarded honours if he/she fulfills the following additional criteria.

First class

A student shall be awarded First Class honours if he / she fulfill the following requirements:

1. An overall minimum Final Grade Point Average (FGPA) of 3.70
2. Complete the above requirement within 6 consecutive academic years from the date of registration of the first academic year of the degree programme.

Second Class (Upper Division)

1. An overall minimum Final Grade Point Average (FGPA) of 3.30
2. Complete the above requirement within 6 consecutive academic years from the date of registration of the first academic year of the degree programme.

Second Class (Lower Division)

1. An overall minimum Final Grade Point Average (FGPA) of 3.00
2. Complete the above requirement within 6 consecutive academic years from the date of registration of the first academic year of the degree programme.

Passes

An overall minimum Final Grade Point Average (FGPA) of 2.00

At least “C” grades for all the course units including foundation course units

Complete the relevant requirements within a maximum period of ten consecutive academic years

Note: A student who does not obtain a grade “C” or better in a particular course unit may re-sit the examination of that course unit in the following academic year (or within 10 years) for the purpose of improving the grade. The best grade obtainable by a student in this instance would be “C”. In the event a student obtains a lower grade while attempting to better the grade, he/she will be entitled to the previous grade.

Conferment of Degree

After fulfilling all the requirements, the Institute on the recommendation of the Board of Management shall recommend the student to the University Senate for the conferment of the degree.

Effective date

The degree will be awarded after completion of the one-year internship successfully. The effective date shall be the 1st date of the proceeding month following completion of the internship.

e.g: If the student completes his/her internship on 10th September of 2019, the effective date of the degree will be 1st of October 2019.

Entries in the Transcript

Course units with the corresponding grades and grade points obtained will appear in the transcript. E grades which have been upgraded will not appear but the credit earned of the repeat course will appear under the particular semester when the unit was completed with a label (R) to indicate that the course was repeated. The final GPA and the class will also appear in the transcript. The transcript will be issued upon application and the payment of a prescribed fee.

21 INTERNSHIP TRAINING

The internship training programme is expected to equip the undergraduates with knowledge, skills and attitudes required to be completed to function as a medical professional. This internship is prerequisite for registration at the Sri Lanka Ayurvedic Medical Council as a medical practitioner.

Period of Internship

1. Six months of his/her training should be obtained compulsory training at National Ayurveda hospital, Borella and Bandaranayake Memorial Ayurveda Research Institute, Navinna. The remaining six months training will be at any Ayurveda Hospital and under one traditional physician in specialized subject.
2. At the end of internship the student should produce a certificate to the Director of the Institute of Indigenous Medicine issued by the Commissioner of Ayurveda to the effect that he has successfully completed his internship.

3. The Board of Management of the Institute shall recommend the candidate to the Senate of the University of Colombo stating his eligibility for the conferment of the BUMS degree.
4. If the student is unable to complete the internship due to unavoidable circumstances, he/she should complete that within a period of two years failing which he shall be considered as not eligible for Registration as an Ayurvedic Physician with the Sri Lanka Ayurvedic Medical Council.

22.Course Sequence of the Core ProgrammeBUMS

Compulsory Subjects

Level 1			
Course code	Course unit	No of unit	Total credit
KU1101	FalsafawaMantiq (Philosophy and Analytical Study)	03	20
KU1102	Al Umoor al Taba'iyya – 1 (Principles of Human Physis)	03	
KU1103	TareekheTibbwaAkhlaqiyya-I (History of Medicine and Behavioral Science)	03	
KU1104	Urdu wa Arabic Language -1	02	
AS1101	Anatomy – I	03	
AS1102	Physiology- I	03	
IA1101	Kulliyat e Adviya-I (Basic Principles of Materia Medica)	03	

KU1202	Al Umoor al Taba'iyya – 11 (Principles of Human Physis)	02	16
KU1203	Tareekh e TibbwaAkhlaqiyya-II (History of Medicine and Behavioral Science)	01	
KU1204	Urdu waArabicLanguage – 11	04	
AS1201	Anatomy – II	03	
AS1202	Physiology - II	03	
IA1201	Kulliyat e Adviya-II (Fundamentals of Materia Medica)	03	
Level 2			
KU2104	Urdu waArabicLanguage -III	04	15
AS2101	Anatomy – III	02	
AS2102	Physiology – III	04	
IA2102	MufradAdvia -I (Single Drugs)	04	
TS2102	Research Methodology and Bio Statistics	01	
KU2204	Urdu wa Arabic Language –IV	03	10
IA2202	MufradAdvia -II (Single Drugs)	06	
TS2202	Research Methodology and Bio Statistics	01	
Level 3			

AS3103	Pathology – I	03	19
IA3103	DawaSazi (Pharmacy)	04	
IA3104	KushtaSazi (Mineralogy)	03	
TS3101	TahaffuziwaSamaji Tib (Preventive and Social Medicine)	03	
MJ3101	Usool e TashkheeswaSareeriyat – I(Principles of Diagnosis)	03	
MJ3102	Kulliyat e Ilaj (Fundamentals of Treatment) – I	03	
AS3203	Pathology – II	03	22
IA3203	DawaSazi (Pharmacy)	04	
IA3204	KushtaSazi (Mineralogy)	03	
TS3201	TahaffuziwaSamaji Tib (Preventive and Social Medicine)	04	
MJ3201	Usool e TashkheesvoSareeriyat – II (Principles of Diagnosis)	04	
MJ3202	Kulliyat e Ilaj(Fundamentals of Treatment) – II	04	
Level 4			
AS4104	Principles of Clinical Medicine –I	04	19
AS4105	Forensic Medicine -I	02	
MJ4103	Moalejat (Unani Clinical Medicine) – I	03	
DI4101	Deshiyallaj (Traditional Medicine)	04	
TS4103	Ilmusumoom (Toxicology) – I	03	
RC4101	Research Component	03	
AS4204	Principles of Clinical Medicine –II	04	18
MJ4203	Moalejat (Unani Clinical Medicine) – II	05	
DI4201	Deshiyallaj (Traditional Medicine)	03	
TS4203	Ilmusumoom (Toxicology) – II	02	
AS4205	Forensic Medicine –II	01	
RC4201	Research Component	03	
Level 5			
MJ5103	Moalejat (Unani Clinical Medicine) – III	03	20
NQ5101	IlmulAtfal (Unani Paediatrics) – I	03	
NQ5102	Amraz e NiswanwaQabalat (Unani Gyn.&Obst.) –I	07	
IJ5101	IlmulJarahat (Unani Surgery) – I	04	
IJ5102	Amraz e Ain, Anf, Uzn, vo Halq– I (ENT, Ophthalmology and Orthodontology)	03	
MJ5203	Moalejat (UnaniClinical Medicine) – IV	05	
NQ5201	IlmulAtfal (UnaniPaediatrics) – II	03	
NQ5202	Amraz e NiswanwaQabalat–II(UnaniGyn. &Obst)	06	
IJ5201	IlmulJarahat (UnaniSurgery) – II	04	
IJ5202	Amraz e Ain, Anf, Uzn, vo Halq- II (ENT, Ophthalmology and Orthodontology)	03	

Optional Subjects

Course code	Course unit	No of unit	Total credit
IA2205	Nutrition and Food cum Medicine	02	06
IA2206	Agro Techniques of Medicinal Plants	02	
IA2207	Industrial Drug Manufacture	02	
MJ4204	Psychology and Counseling	02	10
MJ4205	Massage and Physicaltherapy	02	
MJ4206	Panchakarma	02	
TS4105	Herbal Beauty Culture	02	
TS4207	Drug Abuse Management	02	

Foundation Subjects

Course code	Course unit	Credits	Total credit
EN1000	English - I	2	08
EN2000	English - II	2	
IT 1000	Introduction to Computer Application	2	
IT 2000	Computer Applications	1	
IT 3000	Computer Applications	1	

Course Sequence with Level and Hours of the Core Programme

Compulsory Subjects

Level -1						
Course code	Course unit	Lecture	Practical	Independent learning hrs	Credits	Total credits
First Semester:						
KU1101	FalsafawaMantiq (Philosophy and Analytical Study)	45	-	105	03	20
KU1102	Al Umoor al Taba'iyya – 1 (Principles of Human Physis)	45	-	105	03	
KU1103	TareekheTibbwaAkhlaiyya-I (History of Medicine and Behavioral Science)	30	-	70	02	
	Urdu wa Arabic Language -1					
KU1104	Anatomy – I					
KU1104	Physiology- I	45	-	105	03	
AS1101	Kulliyat e Adviya-I	15	60	75	03	
AS1102	(Basic Principles of Materia Medica)	30	30	90	03	
IA1101		30	30	90	03	
Second Semester						
KU1202	Al Umoor al Taba'iyya – 11 (Principles of Human Physis)	15	30	55	02	16
KU1203	TareekheTibbwaAkhlaiyya-II (History of Medicine and Behavioral Science)	15	--	35	01	
KU1204	Urdu waArabicLanguage – 11	60		140	04	
AS1201	Anatomy – II	30	--	70	03	
AS1202	Physiology - II	30	30	90	03	
IA 1201	Kulliyat e Adviya-II (Fundamentals of Materia Medica)	30	30	90	03	
	Total					
Level -2						
Course code	Course unit	Lecture	Practical	Independent learning hrs	No of Credits	Total credits

First Semester						
KU2104	Urdu waArabicLanguage -III	60	--	140	04	15
AS2101	Anatomy – III	15	30	55	02	
AS2102	Physiology – III	45	30	125	04	
IA2102	MufradAdvia -I (Single Drugs)	45	30	125	04	
TS2102	Research Methodology and Bio Statistics I	15	-	35	01	
Second Semester						
KU2204	Urdu waArabicLanguage –IV	45	--	105	03	10
IA2202	MufradAdvia -II (Single Drugs)	60	60	180	06	
TS2202	Research Methodology and Bio Statistics II	15	--	35	01	
Total						25

Level -3						
Course code	Course unit	Lecture	Practical	Independent learning hrs	No of Credits	Total credits
First Semester						
AS3103	Pathology – I	30	30	90	03	19
IA3103	DawaSazi (Pharmacy)	30	60	110	04	
IA3104	KushtaSazi (Mineralogy)	30	30	90	03	
TS3101	TahaffuziwaSamajiTib (Preventive and Social Medicine)	30	30	90	03	
MJ3101	Usool e TashkheesvoSareeriyat – I(Principles of Diagnosis) Kulliyat e Ilaj – I (Fundamentals of Treatment)	30	30	90	03	
MJ3102		30	30	90	03	
Course code	Course unit	Lecture	Practical		No of Credits	Total credits
Second Semester						
AS3203	Pathology – II	30	30	90	03	22
IA3203	DawaSazi (Pharmacy)	30	60	110	04	
IA3204	KushtaSazi (Mineralogy)	30	30	90	03	
TS3201	TahaffuziwaSamajiTib (Preventive and Social Medicine)	45	30	125	04	
MJ3201	Usool e TashkheesWaSareeriyat– II (Principles of Diagnosis) Kulliyat e Ilaj (Fundamentals of Treatment) II	30	60	110	04	
MJ3202		30	60	110	04	
Total						41

Level – 4						
Course code	Course unit	Lecture	Practical	Independent learning hrs	No of Credits	Total credits
First Semester						
AS4104	Principles of Clinical Medicine –I	45	30	125	04	19
AS4105	Forensic Medicine - I	30	--	70	02	
MJ4103	Moalejat (Unani Clinical Medicine) – I	30	30	90	03	
DI4101	Deshiyallaj (Traditional Medicine)	30	60	110	04	
TS4103	Ilmusumoom (Toxicology) – I	30	30	90	03	
RC4101	Research Component		90	60	03	
Second Semester						
AS4204	Principles of Clinical Medicine II	45	30	125	04	18
MJ4203	Moalejat (Unani Clinical Medicine)– II	45	60	145	05	
DI4201	Deshiyallaj (Traditional Medicine)	30	30	90	03	
TS4203	Ilmusumoom (Toxicology) – II	15	30	55	02	
AS4205	Forensic Medicine – II	15	--	35	01	
RC4201	Research Component		90	60	03	
Total						37
Level – 5						
Course code	Course unit	Lecture	Practical	Independent learning hrs	No of Credits	Total credits
First Semester						
MJ5103	Moalejat – III (UnaniClinical Medicine)	30	30	90	03	20
NQ5101	IlmulAtfal – I (UnaniPaediatrics)	30	30	90	03	
NQ5102	Amraz e NiswanWaQabalat –I (Unani Gynecology&Obstretics)	60	90	200	07	
IJ5101	IlmulJarahat – I (Unani Surgery)	45	30	125	04	
IJ5102	Amraz e Ain, Anf, Uzn, vo Halqi (ENT, Ophthalmology and Orthodontology)	30	30	90	03	
Second Semester						

MJ5203	Moalejat – IV (UnaniClinical Medicine)	45	60	145	05	21
NQ5201	IlmulAtfal – II (UnaniPaediatrics) –I	30	30	90	03	
NQ5202	Amraz e NiswanWaQabalat (UnaniGyn.&Obst.)	60	60	180	06	
IJ5201	IlmulJarahat– II (UnaniSurgery)	30	60	110	04	
IJ5202	Amraz e Ain, Anf, Uzn, vo Halq- II (ENT, Ophthalmology and Orthodontology)	30	30	90	03	
Total						41

23. Academic Units of the Core Programme – BUMS

23.1 Unit of Kulliyat (Unit of Basic Principles)

1. FalsafawaMantiq
2. Al Umoor Al Taba'iyya
3. Tareekh e TibwaAkhlaqiya
4. Urduwa Arabic Language

FalsafawaMantiq

Programme content:

Semester	1		
Course Code:	KU1101		
Course Name:	FalsafawaMantiq		
Credit Value:	2		
Core / Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	-	70
Course Aims/ Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Comprehend the philosophical aspects of medical systems 2. Identify non physical entities of traditional Unani system 3. Apply philosophy, non physical entity in medical practice to invigorate the modern UnaniSystem 			
Course Content: (Main topics, Sub topics) FalsafawaMantiq			

Introduction to *FalsafawaMantiq*, Classification of *Ilm* and its classification etc, Application of *Ilm* in health ,disease and health promotion of human which includes physical and non physical entities along with subtle bodies.

Definition of *TibbiRooh* and its warieties and its combine study with other subtle energy related medical systems.Subtle bio-energies in Unani and other related systems with modern perspective. Guidelines to moral, philosophy, mental and spiritual wellbeing related to physical and psychosomatic disease. Definition and description of *quwa*, its *aqsam* and subordinates. Scientific merit and modern aspect of *Quwa*. *Quwa* in conservation of health. Introduction of Metaphysical disorders, spiritual therapy, *DawaWaDuaa* concepts with *Tibbunnabavi*.

Nafsand Bahaz

Knowledge of *Nafs* and its classification, *Nafs* related to *Quwa* and other systems. Traditional terminologies in relation to *Bahaz*, and scientific way of *bahaz*.

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, student presentations, assignments.

Assessment Strategy:

Continuous Assesment and Semester end examinations

Continuous Assessment: 20%	Final Assessment: 80 %		
One Continuous Assessment: 20%	Written 100 %	-	Viva 20%.

Recommended Readings

1. Ibn rushad. Kitab ul kulliyat.2nd ed. New Delhi: CCRUM; 1987.
2. Ibn Nafees. SharahTashreeh e Qanoon.
3. Ibn Sina. Al Qanoon Fil Tib (Urdu trans. by Kantoori GH). New Delhi: IdaraeKitabusshifa; 2000
4. Zaidi I.H., Zulkifle M, Ahmad S.N. (1999) Temperamentology: A Scientific Appraisal of Human Temperament. Iqtidarul Hasan Zaidi.

Al Umoor Al Taba'iyya

Programme content:

Semester	1
Course Code:	KU1102
Course Name:	Al Umoor Al Taba'iyya

Credit Value:	3		
Core / Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	-	105
<p>Course Aims/ Intended Learning Outcomes:</p> <ol style="list-style-type: none"> 1. Recognize health and disease in the light of Unani principles 2. Identify <i>Tabi'at</i> , the real healer of the body 3. Apply basic analytical knowledge and skills of the fundamental principles of Unani medicine 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Arkan e Arba theory and Mizaj</p> <p>Definition and description of <i>Al Umoor Al Taba'iyya</i> Definition of <i>Arkan</i> ,<i>Kaifiyyath e Arba</i> in relation to <i>Arkan</i> , <i>Arkan e Arba</i> theory and General disorders with <i>Arkan</i>. <i>Mizaj</i> in detail, <i>Mizaj e Motadil and Ghairmotadil</i></p> <p>Akhlat and Aza</p> <p>Definition and classification of <i>Akhlat</i>. History of humoral theory and generation of humors, scientific merit and modern aspect of humoral theory. Classification of humors. Description of <i>Taba'iandGhair e Taba'iAkhlat</i>: <i>Damavi, Bulgham, Safra, Sawda</i>. Scientific merit and modern aspect of <i>Akhlat</i>. Function of <i>Akhlat</i> and importance in relation to maintain health.</p> <p><i>Aza e Mufrada</i>: its definition, varieties and their description, functions. <i>Aza eMurakkaba</i>: its definition, subdivisions ,their description ,and functions etc</p>			
<p>Teaching /Learning Methods:</p> <p>Lectures, Presentations, Small Group Discussions, Assignments, Demonstration</p>			
<p>Assessment Strategy:</p> <p>Continuous Assessment and Semester end examinations</p>			
Continuous Assessment: 20%	Final Assessment: 80 %		
One Continuous Assessment: 20%	Written 100 %	-	Viva 20%.
<p>Recommended Readings</p> <ol style="list-style-type: none"> 1. Ibn rushad. Kitab ul kulliyat. 2nd ed. New Delhi: CCRUM ; 1987. 2. Ibn Nafees. SharahTashreeh e Qanoon. 3. Ibn Sina. Al Qanoon Fil Tib. Volume I, II (English translation by department of Islamic studies Jamia Hamdard). New delhi; 1993 4. Ahmed SI. Introduction to Al - Umur Al – Tabi'yah. 1st ed. Saini Printers; 1980. 			

Semester	02		
Course Code:	KU1202		
Course Name:	Al Umoor Al Taba'iyya		
Credit Value:	2		
Core / Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
<p>Course Aims/ Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Recognize health and disease in the light of Unani principles 2. Identify <i>Tabi'at</i>, the real healer of the body 3. Apply basic analytical knowledge and skills of the fundamental principles of Unani medicine 			
<p>Course Content: (Main topics, Sub topics) Nabz, Tabiat <i>Nabz</i>: its definition, Method of finding the <i>Nabz</i>, description of parameters of <i>Nabz.Tabiat</i>: its definition, function, importance in maintain health. Varieties of <i>Tabiat</i>. <i>Tabiat</i> related to modern aspect. <i>FuzlatalBadan</i>:the diagnostic parameters of <i>bole</i>, <i>baraz</i>, its physiological variation. <i>Sith-e-zarooriya</i> : its role in maintaining health. <i>Hararat al Badan</i> and <i>RutubatalBadan</i> : its importance, function in maintaining health. Effects of <i>Hararat-e-ghareebi</i>, <i>HararatMuqassirah</i> and <i>Rutubat-e-Ghareebi</i></p> <p>Practical</p> <ol style="list-style-type: none"> 1. Data collection / information for Mizaj Analysis 2. Catergorize the given population according to the Mizaj concept 3. Application of diet and life style changes according to Mizaj concept for the health promotion. 4. Recognize unani diagnostic tools:bole, baraz. 5. Nabz examination 6. Basic laboratory analysis of blood constituents related with akhlath concept. 			
<p>Teaching/ Learning Methods: Lectures,Presentations, Small Group Discussions, Assignments, Demonstrtion</p>			
<p>Assessment Strategy: Continuous Assesment and Semester end examinations</p>			
Continuous Assessment: 20%		Final Assessment: 80 %	

One Continuous Assessment: 20%	Written 100 %	80%	Viva 20%.
Recommended Readings			
<ol style="list-style-type: none"> 1. Ibn rushad. Kitab ul kulliyat. 2nd ed. New Delhi: CCRUM ; 1987. 2. Ibn Nafees. SharahTashreeh e Qanoon. 3. Ibn Sina. Al Qanoon Fil Tib. Volume I, II (English translation by department of Islamic studies Jamia Hamdard). New delhi;1993 4. Ahmed SI. Introduction to Al - Umur Al – Tabi'yah. 1st ed. Saini Printers;1980. 			

Tareekh e TibwaAkhlaqiya

Programme content:

Semester	1		
Course Code:	KU1103		
Course Name:	Tareekh e Tib waAkhlaqiya		
Credit Value:	02		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	-	70
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Comprehend the historical value related to indigenous medical systems. 2. Recognize and develop medico-cultural relationship in Unani medical field among SAARC and Middle East countries. 3. Understand the past, to put the best into practice in the present, to plan a better future in the medical field. 			
Course Content: (Main topics, Sub topics) History of changes in disease concept from primitive culture to modern times special reference to Greek, Greeco-arabic, Indians, Chinese. Unani scholars and their contributions towards the development of Unani medicine during middle ages in Middle East/Indo – Park and Sri Lanka. Acts related to Indigenous medical system and its applications for indigenous practices and institution. History background and basic principles of traditional system.			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, student presentations and projects.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written100%,	-	Viva 20 %

Recommended Readings

1. Abdullah AA. Healing with the medicine of the prophet : Darussalam Publishers and distributors: Riyadh, Edl; 1999.
2. Ahmad YA. The Islamic guideline on medicine: Darussalam, Edl; 2010.
3. Alavi S. Islam and Healing Loss and Recovery of an Indo-Muslim Medical Tradition 1600-1900: permanent black: Ranikhet, Edl; 2008.
4. Al-Jauziyah Imam Ibn Al-Qaiyim. Healing with the medicine of the prophet: Darussalam Publishers and distributors: Riyadh, Edl; 1999.
5. Department of Philosophy of Medicine and Science. Theories and Philosophies of Medicine: Institute of history of medicine and medical research: New delhi, Edl; 1973.
6. Ibn Sina. Al Qanoon fil Tibb. (Urdu translation by Kantoori GH). Vol.3. Part 2. New Delhi: IdarakitabusShifa.
7. Ibn-e-Sina. (1993) Al Qanoon-fil-Tibb (English translation by department of Islamic studies Jamia Hamdard), Vol.1 & 2. New Delhi. .
8. Mohommed S. The prophetic medicine science: Millat book centre: New delhi.
9. Nafis Burhanuddin, Kulliyat-e-Nafisi, IdaraKitabusShifa, New Delhi, 1954.
10. Rizvi AA. Muslim tradition in psychotherapy and modern trends: Institute of Islamic culture: Lahore Pakistan.
11. Zaidi I.H., Zulkifle M, Ahmad S.N. (1999) Temperamentology: A Scientific Appraisal of Human Temperament. Iqtidarul Hasan Zaidi.

Semester	2		
Course Code:	KU1203		
Course Name:	Tareekh e Tib waAkhlaqiya		
Credit Value:	2		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	-	70
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
1. Comprehend the historical value related to indigenous medical systems.			
2. Recognize and develop medico-cultural relationship in Unani medical field among SAARC and Middle East countries.			

3. Understand the past, to put the best into practice in the present, to plan a better future in the medical field.			
Course Content: (Main topics, Sub topics) Akhlaqiya (Behavioural Sciences) Basic behavioural changes, Communication Skills, Medical Ethics, Changing Behaviour, Health management			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, student presentations and projects.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written100%,	-	Viva 20 %
References/Reading Materials:			
<ol style="list-style-type: none"> 1. Abdullah AA. Healing with the medicine of the prophet : Darussalam Publishers and distributors: Riyadh, Edl; 1999. 2. Ahmad YA. The Islamic guideline on medicine: Darussalam, Edl; 2010. 3. Alavi S. Islam and Healing Loss and Recovery of an Indo-Muslim Medical Tradition 1600-1900: permanent black: Ranikhet, Edl; 2008. 4. Al-Jauziyah Imam Ibn Al-Qaiyim. Healing with the medicine of the prophet: Darussalam Publishers and distributors: Riyadh, Edl; 1999. 5. Department of Philosophy of Medicine and Science. Theories and Philosophies of Medicine: Institute of history of medicine and medical research: New delhi, Edl; 1973. 6. Ibn Sina. Al Qanoon fil Tibb. (Urdu translation by Kantoori GH). Vol.3. Part 2. New Delhi: IdarakitabusShifa. 7. Ibn-e-Sina. (1993) Al Qanoon-fil-Tibb (English translation by department of Islamic studies Jamia Hamdard), Vol.1 & 2. New Delhi. . 8. Mohommed S. The prophetic medicine science: Millat book centre: New delhi. 9. Nafis Burhanuddin, Kulliyat-e-Nafisi, IdaraKitabusShifa, New Delhi, 1954. 10. Rizvi AA. Muslim tradition in psychotherapy and modern trends: Institute of Islamic culture: Lahore Pakistan. 11. Zaidi I.H., Zulkifle M, Ahmad S.N. (1999) Temperamentology: A Scientific Appraisal of Human Temperament. Iqtidarul Hasan Zaidi. 			

Urdu and Arabic Language

Programme content:

Semester	01		
Course Code:	KU1104		
Course Name:	Urdu wa Arabic		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	-	105
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1 Pronounce Urdu and Arabic words, especially Unani Medical Terms. 2 Comprehend both modern and classical texts of Unani Medicine in Urdu and Arabic 			
Course Content: (Main topics, Sub topics)			
Urdu: Alphabets, vowels & other signs, Nouns, Prepositions, Interrogatives (Possessive pronouns) , Adjectives, Pronouns, Gender, Number			
Arabic: Nouns,Adjectives, Gender,Possessives, Number, Prepositions, Personal pronouns,Demonstrative pronouns			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100 %	-	Viva 20%.
Recommended Reading:			
<ol style="list-style-type: none"> 1. Al Kitaab fil Ta'allum al- Arabiyya, with DVDs, a text book for Beginning Arabic, part one, Second Edition. 2. Brustad, K., Al-Batal, M., Al-Tonsi, A. (2010). Alif Baa: Introduction to Arabic Letters and Sounds (3rd edition). 3. Muqthar ISA. Teaching Arabic Language for the Academic purposes in the Medical faculty: International Islamic University Malaysia: Kuala lumpur, Ed1; 2006. 			

Semester	02		
Course Code:	KU1204		
Course Name:	Urdu wa Arabic		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	60	=	140
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Pronounce Urdu and Arabic words, especially Unani Medical Terms. 2. Comprehend both modern and classical texts of Unani Medicine in Urdu and Arabic 			
Course Content: (Main topics, Sub topics)			
Urdu Cases (Demonstrative pronouns), Tenses, Degree of comparison (Relative pronouns), Adverbs, Conjunctions, Writing style (Ilmussarf)			
Arabic Elatives, Colors and bodily defects , Adverbs, Vocatives, Trilateral verbs and Tenses, Hyperbole and Diminutives , Negatives, Trilateral verbs with additions and their tenses Interrogatives			
Teaching/ Learning Methods: Lectures,presentations, Small Group Discussions, Assignments			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100 %	-	Viva 20%.
Recommended Reading:			
<ol style="list-style-type: none"> 1. Al Kitaab fil Ta'allum al- Arabiyya, with DVDs, a text book for Beginning Arabic, part one, Second Edition. 2. Brustad, K., Al-Batal, M., Al-Tonsi, A. (2010). Alif Baa: Introduction to Arabic Letters and Sounds (3rd edition). 3. Muqthar ISA. Teaching Arabic Language for the Academic purposes in the Medical faculty: International Islamic University Malaysia: Kuala lumpur, Ed1; 2006. 			

Semester	03		
Course Code:	KU2104		

Course Name:	Urdu wa Arabic		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	-	105
Course Aims/ Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Pronounce Urdu and Arabic words, especially Unani Medical Terms. 2. Comprehend both modern and classical texts of Unani Medicine in Urdu and Arabic 			
Course Content: (Main topics, Sub topics)			
Course Content:			
Urdu			
Transitive & intransitive verbs, Conditional Tenses, Verbal Noun, Direct speech and Reported speech, Continues tenses			
Arabic			
Quadrilateral writing, Hamzated verbs, Weak verbs , Doubled verbs, Emphatic verbs, verbs expressing wonder, Defective verbs, Conditional Tenses			
Teaching/ Learning Methods:			
Lectures,presentations, Small Group Discussions, Assignments			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100 %	-	Viva 20%.
Recommended Reading:			
<ol style="list-style-type: none"> 1. Al Kitaab fil Ta'allum al- Arabiyya, with DVDs, a text book for Beginning Arabic, part one, Second Edition. 2. Brustad, K., Al-Batal, M., Al-Tonsi, A. (2010). Alif Baa: Introduction to Arabic Letters and Sounds (3rd edition). 3. Muqthar ISA. Teaching Arabic Language for the Academic purposes in the Medical faculty: International Islamic University Malaysia: Kuala lumpur, Ed1; 2006. 			

Semester	04
Course Code:	KU2204
Course Name:	Urdu wa Arabic
Credit Value:	3
Core /Optional	Core

Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning	
	45	–	105	
Course Aims/ Intended Learning Outcomes: At the completion of this course student will be able to				
<ol style="list-style-type: none"> 1. Pronounce Urdu and Arabic words, especially Unani Medical Terms. 2. Comprehend both modern and classical texts of Unani Medicine in Urdu and Arabic 				
Course Content: (Main topics, Sub topics)				
Urdu Intensive verbs, Ordinal & fractional Nouns, Letter writing , Writing paragraphs & essay				
Arabic Relative pronouns, The Exceptive, Relative adjectives, Ghair al Munsarif, Asma ul Afaal, Al-Hal, Writing practice				
Teaching/ Learning Methods: Lectures,presentations, Small Group Discussions, Assignments				
Assessment Strategy:				
Continuous Assessment -20%		Final Assessment - 80%		
One Continuous Assessment -20%	Written 100 %	-	Viva 20%.	
Recommended Reading:				
<ol style="list-style-type: none"> 1. Al Kitaab fil Ta'allum al- Arabiyya, with DVDs, a text book for Beginning Arabic, part one, Second Edition. 2. Brustad, K., Al-Batal, M., Al-Tonsi, A. (2010). Alif Baa: Introduction to Arabic Letters and Sounds (3rd edition). 3. Muqthar ISA. Teaching Arabic Language for the Academic purposes in the Medical faculty: International Islamic University Malaysia: Kuala lumpur, Ed1; 2006. 				

23.2 Unit of Allied Medical Sciences

1. Anatomy
2. Physiology
3. Pathology
4. Principles of Clinical Medicine
5. Forensic Medicine

Anatomy

Programme content:

Semester	1		
Course Code:	AS1101		
Course Name:	Anatomy		
Credit Value:	3		
Core /Optional /	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	60	75
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles of embryology including genetic inheritance and stages involved in development of the organs and systems from the time of conception till birth. 2. Identify the muscles and the relationship of individual muscles to each other in order to understand the human activities 3. Comprehend the normal position, inter-relationships, structure, functional and applied anatomy of the various visceral organs in the body. 4. Apply the anatomical knowledge in medical and surgical practice. 			
<p>Course Content: (Main topics, Sub topics) Introduction of Anatomy, Embryology, Upper Limb- Back of neck, scapular region and shoulder, Arm and cubital fossa, Forearm, The Hand, Joints of upper limb Bones - Hipbone, Femur, tibia and fibula, Front and medial side of thigh, Gluteal region and back of thigh, Hip joint, Popliteal fossa, Kneejoint, Leg and Foot, Muscles of the back Applied Anatomy</p>			
<p>Teaching and Learning Methods: Lectures, Presentations, Demonstrations, Small group discussions, Interactive Class Room Activities</p> <p>Practical Training: Cadaver dissection, Anatomical model demonstration, Interactive based software, diagrams, and living anatomy practical sessions.</p>			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.
Recommended Readings			

1. Chaurasia BD. Human Anatomy. 5th ed. CBS publishers and distributors-New delhi. 2010; Vol I, II & III
2. Ellis H. Clinical Anatomy (A revision and applied anatomy for clinical students). 11th d. Oxford Blackwell Scientific Publication. 2006
3. Moore KL, Dalley AF. Clinically Oriented Anatomy. 4th ed. Lippincott Williams & Wilkins – Philadelphia.1999
4. Netter FH. Atlas of Human Anatomy. 7th ed. Elsevier. 2006
5. Singh I, Pal GP. Human Embryology. 8th ed. Macmillan –New Delhi.
6. Singh I. Textbook of Anatomy with Colour Atlas. 5th ed. Jaypee Bros. 1996; Vol I, II & III
7. Tortora GJ, Derrickson B. Principles of Anatomy and Physiology. 13th ed. John Wiley & Sons (Asia) Pvt Ltd. 2011.Vol I

Semester	2		
Course Code:	AS1201		
Course Name:	Anatomy		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

1. Understand the basic principles of embryology including genetic inheritance and stages involved in development of the organs and systems from the time of conception till birth.
2. Identify the muscles and the relationship of individual muscles to each other in order to understand the human activities
3. Comprehend the normal position, inter-relationships, structure, functional and applied anatomy of the various visceral organs in the body.
4. Apply the anatomical knowledge in medical and surgical practice.

Course Content: (Main topics, Sub topics)

Thorax and abdomen

Surface Anatomy, Intercostal space, Pleura and lungs, Mediastinum, its divisions and contents, Heart and pericardium, Autonomic nerves. Anterior abdominal wall, Abdominal viscera, Kidney, Ureter,

Suprarenal glands, Diaphragm and posterior abdominal wall, lumbar plexus, Aorta and its branches, Inferior vena cava, Autonomic nerves, Applied anatomy

Pelvis

Arrangement of pelvic viscera and pelvic peritoneum in the female and male, Perineum, Anus, Scrotum, Testis, urogenital organs and other structures, Pelvic viscera, Ureter in the pelvis, Urinary bladder, Male - ductus deferens, prostate, seminal vesicle and Urethra, Female – uterus, broad ligament, fallopian tube, ovary, Vagina, Sigmoid colon, Rectum and anal canal, Pelvic wall Muscles, vascular and nervous supply, Applied anatomy

Teaching and Learning Methods: Lectures, Presentations, Demonstrations, Small group discussions, Interactive Class Room Activities

Practical Training: Cadaver dissection, Anatomical model demonstration, Interactive based software, diagrams, and living anatomy practical sessions.

Assessment Strategy:

Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Chaurasia BD. Human Anatomy. 5th ed. CBS publishers and distributors-New delhi. 2010; Vol I, II & III
2. Ellis H. Clinical Anatomy (A revision and applied anatomy for clinical students). 11th d. Oxford Blackwell Scientific Publication. 2006
3. Moore KL, Dalley AF. Clinically Oriented Anatomy. 4th ed. Lippincott Williams & Wilkins –Philadelphia.1999
4. Netter FH. Atlas of Human Anatomy. 7th ed. Elsevier. 2006
5. Singh I, Pal GP. Human Embryology. 8th ed. Macmillan –New Delhi.
6. Singh I. Textbook of Anatomy with Colour Atlas. 5th ed. Jaypee Bros. 1996; Vol I, II & III
7. Tortora GJ, Derrickson B. Principles of Anatomy and Physiology. 13th ed. John Wiley & Sons (Asia) Pvt Ltd. 2011. Vol I

Semester	3
Course Code:	AS2101

Course Name:	Anatomy		
Credit Value:	2		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles of embryology including genetic inheritance and stages involved in development of the organs and systems from the time of conception till birth. 2. Identify the muscles and the relationship of individual muscles to each other in order to understand the human activities 3. Comprehend the normal position, inter-relationships, structure, functional and applied anatomy of the various visceral organs in the body. 4. Apply the anatomical knowledge in medical and surgical practice. 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Head, Neck and Neuroanatomy</p> <p>Scalp and face, Superficial structures in the neck, Parotid region, Skull bones, Cranial cavity, Orbit and their contents, Neck, Deep structures near base of the skull, Root of the neck, Front of the neck, Pre vertebral region, Oral cavity, Nasal cavity, Pharynx, Larynx, Eye, Ear. The vertebral column & Vertebral canal, Spinal cord, Brain stem, Medulla, Pons, Midbrain, Cerebellum, Cerebrum, Blood supply of the Brain, Ventricular system and flow of CSF, Cranial nerves, Clinical Anatomy</p>			
<p>Teaching and Learning Methods: Lectures, Presentations, Demonstrations, Small group discussions, Interactive Class Room Activities</p> <p>Practical Training: Cadaver dissection, Anatomical model demonstration, Interactive based software, diagrams, and living anatomy practical sessions.</p>			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment :20%	written 100 %	Practical 80%	Viva 20%.
Recommended Readings			

1. Chaurasia BD. Human Anatomy. 5th ed. CBS publishers and distributors-New delhi. 2010; Vol I, II & III
2. Ellis H. Clinical Anatomy (A revision and applied anatomy for clinical students). 11th d. Oxford Blackwell Scientific Publication. 2006
3. Moore KL, Dalley AF. Clinically Oriented Anatomy. 4th ed. Lippincott Williams & Wilkins – Philadelphia.1999
4. Netter FH. Atlas of Human Anatomy. 7th ed. Elsevier. 2006
5. Singh I, Pal GP. Human Embryology. 8th ed. Macmillan –New Delhi.
6. Singh I. Textbook of Anatomy with Colour Atlas. 5th ed. Jaypee Bros. 1996; Vol I, II & III
7. Tortora GJ, Derrickson B. Principles of Anatomy and Physiology. 13th ed. John Wiley & Sons (Asia) Pvt Ltd. 2011.Vol I

Physiology

Programme content:

Semester	1		
Course Code:	AS1102		
Course Name:	Physiology		
Credit Value:	3		
Core/Optional	Compulsory		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Explain the normal function of all the organ systems of the body and their interactions. 2. Describe the contribution of each organ system to the maintenance of homeostasis. 3. Elucidate the physiological aspects of normal growth and development. 4. Apply physiological principles underlying pathogenesis and treatment of disease. 			
Course Content: (Main topics, Sub topics)			
Body fluids, Digestive, Respiratory and Urinary system			
Body fluid: Divisions, Percentage, Location, Mechanism of formation and exchange. Complication – Edema, Dehydration, Digestive system: Component of the balanced diet and their role. Digestion of Carbohydrates, Protein and Fat, Functions of Nose, Mechanism of Respiration, Exchange of Gases, Control of Breathing, Changes in respiration in high attitude, Hypoxia, Anoxia, Asphyxia, Cyanosis,			

Artificial respiration, Kidney - structure, blood supply and functions, Urine - normal and abnormal constituents, Oliguria, Anuria and Polyuria, Renin angiotensin mechanism, Clearance values

Teaching and Learning Methods: Lectures, practical, small group discussion, demonstration, Case discussion

Practical Training: Laboratory Training, Hospital visit, Demonstration of interactive based software, CD sessions on practical.

Assessment Strategy

Continuous Assessment: 20 %

Final Assessment: 80 %

One Continuous Assessment :20%

written 100 %

Practical 80%

Viva 20%.

Recommended Readings

1. Allison LA. Fundamentals of Molecular Biology. 2nd ed. Collage of William and Mary. Williamsburg. USA
2. Barrett KE, Barman SM, Boitano S, Brooks HL. Ganong's review of medical physiology. 24th ed. Tata McGraw Hill Education Private Limited. 2012
3. Champe, Pamela C, Harrey, Richard A, Denise RF. Lippincott's illustrated reviews: Biochemistry. 6th ed. Two Commerce Square-Philadelphia. 2005
4. Ghai CL. Textbook of Practical Physiology. 8th ed. Jaypee Brothers Medical Publishers.
5. Hall JE. Guyton and Hall Text Book of Medical physiology. 13th ed. Elsevier
6. Victor W, Rodwell, Bender D, Kathleen MB, Kennelly PJ, Weil PA. Harpers Illustrated Biochemistry. 29th ed. The McGraw – Hill Companies. 2012

Semester

2

Course Code:

AS1202

Course Name:

Physiology

Credit Value:

3

Core Optional

Core

Hourly Breakdown

Theory hours

Practical hours

Hours of independent Learning

30

30

90

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

1. Explain the normal function of all the organ systems of the body and their interactions.
2. Describe the contribution of each organ system to the maintenance of homeostasis.

3. Elucidate the physiological aspects of normal growth and development.
4. Apply physiological principles underlying pathogenesis and treatment of disease.

Course Content: (Main topics, Sub topics)

Cardiovascular System and Haematology

Structure and properties of Heart muscles, Cardiac potentials, E.C.G., Pressure in Heart and Vessels, Circulation, Heart sounds, Heart rate, Cardiac output, Pulmonary circulation and other special regions, Capillaries and vascular responses of the skin. Blood composition, Functions, Red Blood Cells, Hemoglobin, White Blood Cells, Platelets, Anemia, Jaundice and applied Haematology

Endocrine and Reproductive systems

Endocrine system: Hormones, functions, hyper secretion and hypo secretion of Hypothalamus, Pituitary gland, Thyroid gland, Adrenal gland, Pancreas, Reproductive system: Male and Female reproductive system

Teaching and Learning Methods: Lectures, practical, small group discussion, demonstration, Case discussion

Practical Training: Laboratory Training, Hospital visit, Demonstration of interactive based software, CD sessions on practical.

Assessment Strategy

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment :20%	written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Allison LA. Fundamentals of Molecular Biology. 2nd ed. Collage of William and Mary. Williamsburg. USA
2. Barrett KE, Barman SM, Boitano S, Brooks HL. Ganong’s review of medical physiology. 24th ed. Tata McGraw Hill Education Private Limited. 2012
3. Champe, Pamela C, Harrey, Richard A, Denise RF. Lippincott’s illustrated reviews: Biochemistry. 6th ed. Two Commerce Square-Philadelphia. 2005
4. Ghai CL. Textbook of Practical Physiology. 8th ed. Jaypee Brothers Medical Publishers.
5. Hall JE. Guyton and Hall Text Book of Medical physiology. 13th ed. Elsevier
6. Victor W, Rodwell, Bender D, Kathleen MB, Kennelly PJ, Weil PA. Harpers Illustrated Biochemistry. 29th ed. The McGraw – Hill Companies. 2012

Semester	3		
Course Code:	AS2102		
Course Name:	Physiology		
Credit Value:	4		
Core /Optional	Compulsory		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	30	125
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Explain the normal function of all the organ systems of the body and their interactions. 2. Describe the contribution of each organ system to the maintenance of homeostasis. 3. Elucidate the physiological aspects of normal growth and development. 4. Apply physiological principles underlying pathogenesis and treatment of disease. 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Nervous system and special sensory organs Divisions, functions of Pyramidal pathway and lesions.Cerebral cortex areas, connections and functions, Extra pyramidal pathway, Cerebellum – functions,Spinal cord, Sensory pathway, Cranial nerves</p> <p>Biochemistry The Cell, Biomolecules, Enzymes and Hormones, Glucose metabolism, Lipid metabolism, Protein metabolism, Electron transport chain and ATP synthesis, Integration of Metabolism, Haem metabolism and jaundice,Purine and pyrimidine metabolis,Diseases associated with lipid metabolism.</p>			
<p>Teaching and Learning Methods: Lectures, practical, small group discussion, demonstration, Case discussion</p> <p>Practical Training: Laboratory Training, Hospital visit, Demonstration of interactive based software, CD sessions on practical.</p>			
Assessment Strategy			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment :20%	written 100 %	Practical 80%	Viva 20%.
Recommended Readings			

1. Allison LA. Fundamentals of Molecular Biology. 2nd ed. Collage of William and Mary. Williamsburg. USA
2. Barrett KE, Barman SM, Boitano S, Brooks HL. Ganong's review of medical physiology. 24th ed. Tata McGraw Hill Education Private Limited. 2012
3. Champe, Pamela C, Harrey, Richard A, Denise RF. Lippincott's illustrated reviews: Biochemistry. 6th ed. Two Commerce Square-Philadelphia. 2005
4. Ghai CL. Textbook of Practical Physiology. 8th ed. Jaypee Brothers Medical Publishers.
5. Hall JE. Guyton and Hall Text Book of Medical physiology. 13th ed. Elsevier
6. Victor W, Rodwell, Bender D, Kathleen MB, Kennelly PJ, Weil PA. Harpers Illustrated Biochemistry. 29th ed. The McGraw – Hill Companies. 2012

Pathology

Programme content:

Semester	5		
Course Code:	AS3103		
Course Name:	Pathology		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Recognize the pattern, causes, mechanisms and effects of diseases and to correlate with Unani concepts 2. Recognize medical microbiology that is of particular significance in the field of clinical practice 3. Recommend appropriate pathological investigations and interpret their results 3. 			
Course Content: (Main topics, Sub topics)			
General Pathology			
Acquired causes of Diseases, Hypoxic injury, Chemical injury, Physical injury, Immunological injury, Psychological injury, Degeneration, Cell Death, Necrosis Gangrene , Derangements of Body Fluids,			

Electrolytes and blood flow, Derangement in the volume of the circulating blood, Circulatory disturbances of obstructive nature Inflammations and Healing. Haematological Investigations

Gastro Intestinal Tract, Urinary Tract, Immunopatho- physiology, and Neoplasm

Gastrointestinal system, Nutritional deficiency, Congenital diseases, Oesophagitis, Chemical burns, Gastric inflammation, Gastric and Duodenal ulcer, Congenital abnormalities, Small intestinal inflammatory diseases, Large intestinal diseases, Hepatitis, Cirrhosis, Portal hypertension, Jaundice, Gall bladder tumours, Gall stones, Pancreatitis, Splenomegaly, Examination of Stool

Urinary Tract: Glomerular nephritis, Nephrotic syndrome, Renal hypertension, Renal stones, Bladder stones, Tumours, Haematuria. Urine analysis, Immunophysiology and Immunopathology, Immunity, Immunodeficiency disorders, Hypersensitivity disorders

Neoplasia, Atrophy, Hypertrophy, Hyperplasia, Metaplasia, Dysplasia, Promalignant Lesions, Characteristics of Tumors, Carcinogenesis

Teaching /Learning Methods:

Lectures, Practical, Case studies, Group Discussions, Presentations.

Practical training: Laboratory Training, Demonstration of Pathological specimen, interactive based software, interpretation of pathological reports

Assessment Strategy:

Continuous Assessment -20%	Final Assessment - 80%		
One Continuous Assessment -20%	written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Anderson, W.A.D, Kissane, J.M. Pathology. (7th ed.). Saint Louis: CVMosby; 1977.
2. Bogitsh, B, Carter, C, Oeltmann, T, Roitt, I, Wakelin, D. Human Parasitology. (5th ed.): Elsevier ; 2018.
3. Govan, A.D.T, Macfarlane, P.S, Callander, R. Pathology Illustrated. (4th ed.). London: Churchill Livingstone; 1994.
4. Greenwood, D, Slack, R, Peutherer, J, Barer, M. Medical Microbiology. (17th ed.): Churchill Livingstone Elsevier; 2007
5. Levison, D.A, Reid, R, Harrison, D.J, Fleming, S, Burt, A.D. Muir's Textbook of Pathology. (14th ed.). London: Hodder Arnold Publication; 2008.
6. Mims, C, Dockrell, H.M, Goering, R.V, Roitt, I, Wakelin, D. Medical Microbiology. (3rd ed.): Elsevier Mosby; 2004.
7. Mohan, H. Textbook of Pathology. (5th ed.). New Delhi: Jaypee Brothers; 2005.

1. 8. Walter, J.B, Talbot, I.C. General Pathology. (7th ed.). London: Churchill Livingstone; 2004.

Semester	6		
Course Code:	AS3203		
Course Name:	Pathology		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

4. Recognize the pattern, causes, mechanisms and effects of diseases and to correlate with Unani concepts
5. Recognize medical microbiology that is of particular significance in the field of clinical practice
6. Recommend appropriate pathological investigations and interpret their results

Course Content: (Main topics, Sub topics)

Cardio respiratory and Nervous System

Cardiovascular System: Hypertension, Atheroma, Thrombosis, Embolism, Aneurysm, Pulmonary hypertension, Portal hypertension, Senile heart diseases, Rheumatism, Ischaemic & congenital heart diseases. X-Ray, E.C.G

Respiratory diseases: Bronchitis, Bronchiectasis, Bronchial Asthma, Pneumonia, Tuberculosis, Abscess, Emphysema, Fibrosis, Pleurisy, Pyothorax, Pneumothorax, Hydrothorax, Haemothorax,

Nervous System: Meningitis, Encephalitis, Neuritis, Stroke, Cephalic & Spinal degenerative diseases, Tumours, Parkinsonism, Alzheimer's diseases, EEG, Imaging technology

Parasitology, Microbiology, Endocrinology, and Sexually Transmitted Diseases

Parasitology: Protozoa, Malaria, Amoebiasis, Giardiasis, Leishmaniasis, Helminthes, Identification of Parasites

Microbiology: Viruses, Viral infections, Sterilization and Disinfections, Bacteria, Bacterial infections, Identification of Bacteria

Endocrine disorders: Diabetes mellitus, Diabetes insipidus, Hyper/Hypo thyroidism, Cushing's Syndrome, Acromegaly, Dwarfism.

Sexually Transmitted Diseases: Syphilis, AIDS, Gonorrhoea, Semen, Vaginal Secretions

Teaching /Learning Methods: Lectures, Practical, Case studies, Group Discussions, Presentations.			
Practical training: Laboratory Training, Demonstration of Pathological specimen, interactive based software, interpretation of pathological reports			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	written 100 %	Practical 80%	Viva 20%.
Recommended Readings			
1. Anderson, W.A.D, Kissane, J.M. Pathology. (7th ed.). Saint Louis: CVMosby; 1977.			
2. Bogitsh, B, Carter, C, Oeltmann, T, Roitt, I, Wakelin, D. Human Parasitology. (5th ed.): Elsevier ; 2018.			
3. Govan, A.D.T, Macfarlane, P.S, Callander, R. Pathology Illustrated. (4th ed.). London: Churchill Livingston; 1994.			
4. Greenwood, D, Slack, R, Peutherer, J, Barer, M. Medical Microbiology. (17th ed.): Churchill Livingstone Elsevier; 2007			
. 5. Levison, D.A, Reid, R, Harrison, D.J, Fleming, S, Burt, A.D. Muir's Textbook of Pathology. (14th ed.). London: Hodder Arnold Publication; 2008.			
6. Mims, C, Dockrell, H.M, Goering, R.V, Roitt, I, Wakelin, D. Medical Microbiology. (3rd ed.): Elsevier Mosby; 2004.			
7. Mohan, H. Textbook of Pathology. (5th ed.). New Delhi: Jaypee Brothers; 2005.			
8. Walter, J.B, Talbot, I.C. General Pathology. (7th ed.). London: Churchill Livingston; 2004.			

Principles of Clinical Medicine

Programme content:

Semester	7		
Course Code:	AS4104		
Course Name:	Principles of Clinical Medicine		
Credit Value:	4		
Core (compulsory) /Optional / Auxiliary	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	30	125
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			

1. Recognize aetiology, pathogenesis, classification, symptomatology and diagnosis of diseases to be handled frequently by Unani physicians their clinical practice
2. Interpret the signs and symptoms and diagnose clinical conditions differentially
3. Able to refer when specialized therapeutic care is needed

Course Content: (Main topics, Sub topics)

Cardiovascular disease

Symptoms of Cardiovascular Disease, Hypertension, Abnormal Heart Sounds and Murmurs, Atherosclerosis, Coronary Heart Disease, Vascular Disease, Diseases of the Heart Valves, Congenital Heart Disease, Diseases of the Myocardium and Diseases of the Pericardium

Neurological Disease

Symptoms of Nervous System Disease, Cerebrovascular Disease, Inflammatory Diseases, Degenerative Diseases, Infections of the Nervous System, Intracranial Space Occupying Lesions and Raised Intracranial Pressure, Disorders of the Spine and Spinal Cord, and Diseases of Nerve and Muscle

Blood Disorders

Symptoms of Blood Disease, Anaemia, Haematological Malignancies, Myeloproliferative Disorders, Bleeding Disorders and Venous Thrombosis

Respiratory Disease

Symptoms of Respiratory Disease, Obstructive Pulmonary Diseases, Infections of the Respiratory System, Tumours of the Bronchus and Lung, Interstitial and Infiltrative Pulmonary Diseases, Pulmonary Vascular Disease, Diseases of Trachea, Pleura, Diaphragm and Chest Wall.

Alimentary Tract and Pancreatic Disease

Symptoms of in Gastrointestinal Disease, Diseases of the Oesophagus, Diseases of the Stomach and Duodenum, Diseases of the Small Intestine, Diseases of the Pancreas, Inflammatory Bowel Disease, Irritable Bowel Syndrome, Disorders of the Colon and Rectum, and Diseases of the Peritoneal Cavity

Liver and Biliary Tract Disease

Presenting Problems in Liver Disease, Chronic Liver Disease, Viral Hepatitis, Alcoholic Liver Disease, Non-Alcoholic Fatty Liver Disease, Inherited Liver Diseases, Autoimmune Liver Diseases, Vascular Liver Diseases, Tumours of the Liver, Gallstones, Cholecystitis, Choledocholithiasis, Tumours of the Gallbladder and Bile Duct

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, and health awareness Programmes.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %
References/Reading Materials:			
1. Colledge NR, Walker BR, Ralston SH. Davidson's Principles and Practice of Medicine. 21st ed. Edinburgh: Churchill Livingstone; 2017			
2. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J. Harrison's principles of Internal Medicine. 18th ed. New York: Mc Graw-Hill Companies			
3. Goldman, L. and Schafer, A. <i>Goldman-Cecil Medicine, 25th Edition</i> . Philadelphia: Elsevier Saunders; 2015			
4. Kumar P and Clark M. Kumar and Clark's Clinical Medicine, 9 th Edition. Elsevier; 2017			

Semester	8		
Course Code:	AS4204		
Course Name:	Principles of Clinical Medicine		
Credit Value:	4		
Core (compulsory) /Optional / Auxiliary	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	30	125
Course Aims/Intended Learning Outcomes:			
At the completion of this course student will be able to			
1. Recognize aetiology, pathogenesis, classification, symptomatology and diagnosis of diseases to be handled frequently by Unani physicians in their clinical practice			
2. Interpret the signs and symptoms and diagnose clinical conditions differentially			
3. Able to refer when specialized therapeutic care is needed			
Course Content: (Main topics, Sub topics)			
Skin Disease			
Presenting Problems in Skin Disease, Eczema, Psoriasis and other Erythematous Scaly Eruptions, Common Skin Infections and Infestations, Pressure Sores, Acne and Rosacea			
Endocrine Disease			

The Thyroid Gland , The Reproductive System, The Parathyroid Glands, The Adrenal Glands, Diabetes Mellitus , The Hypothalamus and The Pituitary Gland, Diseases Affecting Multiple Endocrine Glands

Kidney and Urinary Tract Disease

Presenting Problems in Renal and Urinary Tract Disease, Renal Vascular Diseases, Glomerular Diseases, Tubulo-Interstitial Diseases, Diseases of the Collecting System and Ureters, Diseases of the Lower Genitourinary Tract, Diseases of The Prostate Gland, Tumours of the Kidney and Urinary Tract

Musculoskeletal Disorders

Presenting Problems in Musculoskeletal Disease, Osteoarthritis, Inflammatory Joint Disease

Fibromyalgia, Diseases of Bone, Systemic Connective Tissue Disease

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, and health awareness Programmes.

Assessment Strategy:

Continuous Assessment -20%	Final Assessment - 80%		
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %

References/Reading Materials:

1. Colledge NR, Walker BR, Ralston SH. Davidson's Principles and Practice of Medicine. 21st ed. Edinburgh: Churchill Livingstone; 2017
2. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J. Harrison's principles of Internal Medicine. 18th ed. New York: Mc Graw-Hill Companies
3. Goldman, L. and Schafer, A. *Goldman-Cecil Medicine, 25th Edition*. Philadelphia: Elsevier Saunders; 2015
4. Kumar P and Clark M . Kumar and Clark's Clinical Medicine, 9th Edition. Elsevier; 2017

Forensic Medicine

Programme content

Semester	7
Course Code:	AS4105
Course Name:	Forensic Medicine
Credit Value:	2
Core /Optional	Core

Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
		30	-
<p>Course Aims/Intended Learning Outcomes:</p> <p>At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge and conceptual understanding of areas of Forensic Medicine 2. Familiar with the role of the coroner, the circumstances in which death should be reported to the coroner, the role of the autopsy and the inquest. 3. Learn the importance of accurate certification of death and be familiar with the signs of violence and injury/trauma. 4. Acquire skills in establish the cause of death 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Introduction to medico legal system in Sri Lanka, Medical councils of Sri Lanka, basic medical ethics, medical evidence, medical negligence, birth and death registration procedure in Sri Lanka.</p> <p>Mechanical injuries, head injuries, injuries due to physical agents, firearm injuries, Road Traffic accidents, introduction to DNA technology and finger printing, Death diagnosis, changes after death, estimation of time since death, certification of death, Inquest.</p>			
<p>Teaching and Learning Methods: Lectures, Presentations, Demonstrations, Small group discussions, Interactive Class Room Activities</p> <p>Practical Training: Cadaver dissection, Anatomical model demonstration, Interactive based software, diagrams, and living anatomy practical sessions.</p>			
<p>Assessment Strategy:</p>			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment :20%	Written 100 %	-	Viva 20%.
<p>Recommended readings</p> <ol style="list-style-type: none"> 1. Shepherd, Richard. Simpson's Forensic Medicine. 12th ed. London: Arnold; 2003 2. Victor W, Rodwell, Bender D, Kathleen MB, Kennelly PJ, Weil PA. Harpers Illustrated Biochemistry. 29th ed. The McGraw – Hill Companies. 2012 10 3. Jayawardena H. Forensic Medicine & Medical Law. Department of Forensic Medicine, University of Kelaniya, Ragama, Sri Lanka; 1996. 			

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Semester	8		
Course Code:	AS4205		
Course Name:	Forensic Medicine		
Credit Value:	1		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	-	35
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to <ol style="list-style-type: none"> 1. Gain knowledge and conceptual understanding of areas of Forensic Medicine 2. Familiar with the role of the coroner, the circumstances in which death should be reported to the coroner, the role of the autopsy and the inquest. 3. Learn the importance of accurate certification of death and be familiar with the signs of violence and injury/trauma. 4. Acquire skills in establish the cause of death 			
Course Content: (Main topics, Sub topics) Child abuse, Infanticide, Sexual offences, Abortion, Asphyxia and drunkenness.			
Teaching and Learning Methods: Lectures, Presentations, Demonstrations, Small group discussions, Interactive Class Room Activities			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment :20%	Written 100 %	-	Viva 20%.
Recommended Readings <ol style="list-style-type: none"> 1. Shepherd, Richard. Simpson's Forensic Medicine. 12th ed. London: Arnold; 2003 2. Victor W, Rodwell, Bender D, Kathleen MB, Kennelly PJ, Weil PA. Harpers Illustrated Biochemistry. 29th ed. The McGraw – Hill Companies. 2012 10 3. Jayawardena H. Forensic Medicine & Medical Law. Department of Forensic Medicine, University of Kelaniya, Ragama, Sri Lanka; 1996. 			

23.3 Unit of IlmuAdviya (Unit of Materia Medica)

- 1.Kulliyat e Adviya
- 2.MufradAdvia (Single Drugs)
- 3.DawaSazi (Pharmacy)
- 4.KushtaSazi (Mineralogy)

Optional Subjects

- 5.Nutrition and Food cum Medicine
6. Agro Techniques of Medicinal Plants
7. Industrial Drug Manufacture

Kulliyat e Adviya

Programme content:

Semester	1		
Course Code:	IA1101		
Course Name:	Kulliyat e Advia		
Credit Value:	3		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none">1. Apply properly the inherent concepts of Materia Medica in the understanding of the functions of the medicinal plants (MufradDawa)2. Identify, collect, store and use medicinal plants in accordance with the characteristics stated in Unani and Modern texts.3. Possess knowledge on the basic chemical constituents of medicinal plants and correlate their pharmacological properties with the actions mentioned in Unani.			
Course Content: (Main topics, Sub topics) Introduction to IlmuAdviya, Historical development of IlmuAdvia, The importance and applilcation of IlmuAdviya in day to day life , Definition of Dawa, Ghiza, Dawa e Ghiza and Ghiza e Dawa,Differences between Dawa e Summi and Summ e Mutlaq, Principles and			

importance of Badal (Substitute), Muzir (Side effects) and Muslih(Corrective) Tarkeeb e Adviya, DawakeAjza e Tarkeeba, (Different constituents of drugs), Jauhar e Fial (Active principles), DawakiTaba'iKhusoosiyat (Special properties of drugs), Masalik e Adviya (Routes of administration of drugs), GhairMa'roofAdviyakeAsratMa'loomKarneke Farai: , Qiyas WaTajruba (Ancient empirical methods of induction and experimentation for the assessment of medicinal effects of unknown drugs), Mizaj e Adviya (Temperament of drugs, Darjat e Adviya (Degree of temperamental qualities), Important of Mizaj in the study of drugs , Istikhraj e Mizaj (Assessment of Mizaj of a Unani compound formulation),Detail description of important Unani medical terminologies used in Unani system of medicineDetail study of *Dawa e Ghiza*and*Ghiza e Dawafound* in Sri Lanka.

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes,student presentations, assignments and projects.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80%		
One Continuous Assessment: 20 %	written 100%	Practical 80%	Viva 20%.

Recommended Reading:

1. Abdul Latif, Tauzihat e Kulliyat e Advia, Aligarh, New Delhi, india, Ibn Sina Academy of Medieval Medicine & Sciences, 2010.
2. Ghani N. KhazainulAdvia. New Delhi: IdaraKitabulShifa; 2010 3. Ibn Baitar. Al JamiulMufradat al AdviawalAghzia. Vol I and II. New Delhi: CCRUM; 1999:
3. Ibn Sina. Al Qanoon Fil Tib (Urdu trans. by Kantoori GH). New Delhi: IdaraKitabulShifa; 2000
4. Kabeeruddin M. MakhzanulMufradat. New Delhi:IdaraKitabulShifa; 2007

Semester	2		
Course Code:	IA1201		
Course Name:	Kulliyat e Advia		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes:			
At the completion of this course student will be able to			

<ol style="list-style-type: none"> 1. Apply properly the inherent concepts of Materia Medica in the understanding of the functions of the medicinal plants (MufradDawa) 2. Identify, collect, store and use medicinal plants in accordance with the characteristics stated in Unani and Modern texts. 3. Possess knowledge on the basic chemical constituents of medicinal plants and correlate their pharmacological properties with the actions mentioned in Unani. 			
<p>Course Content: (Main topics, Sub topics)</p> <p><i>Nau'iyat e Amal</i> (various actions) of Unani drugs on different organs and systems of human body, Nervous system, Locomoto system, Cardio vascular system (Heart, blood and blood vessels), Digestive system (Stomach, intestine, liver), Respiratory system, Genito-urinary system (Male and female), Sensory organs (Eye, ear, nose, tongue and skin), Pharmacognosy- Important chemical constituents of medicinal plants, Conservation and cultivation of medicinal plants , Principles of collection and preservation of raw drugs, Principles of standardization and quality control raw materials,</p>			
<p>Teaching /Learning Methods:</p> <p>Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects.</p>			
<p>Assessment Strategy:</p>			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %	Written 100 %,	Practical 80%	Viva 20%.
<p>Recommended Reading:</p> <ol style="list-style-type: none"> 1. Abdul Latif, <i>Tauzihat e Kulliyat e Advia</i>, Aligarh, New Delhi, india, Ibn Sina Academy of Medieval Medicine & Sciences, 2010. 2. Ghani N. <i>KhazainulAdvia</i>. New Delhi: IdaraKitabulShifa; 2010 3. Ibn Baitar. <i>Al JamiulMufradat al AdviaawalAghzia</i>. Vol I and II. New Delhi: CCRUM; 1999: 3. Ibn Sina. <i>Al Qanoon Fil Tib</i> (Urdu trans. by Kantoori GH). New Delhi: IdaraKitabulShifa; 2000 4. Kabeeruddin M. <i>MakhzanulMufradat</i>. New Delhi:IdaraKitabulShifa; 2007 			

MufradAdvia (Single Drugs)

Programme Content

Semester	3
Course Code:	IA2102
Course Name:	MufradAdvia
Credit Value:	4

Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	30	125
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Identify medicinal plants on the basis of their characteristics and apply accordingly 2. Comprehend the pharmacological actions of medicinal plants on various systems of the body. 3. Develop skills in the application of single drugs in accordance with the Unani concept. 			
Course Content: (Main topics, Sub topics) Introduction, Detail study of single drugs with following information, <i>Tibbi</i> Name of the plant, Botanical name , Natural order/Family , Synonyms - English, Tamil, Sinhalese, Arabic, Sanskrit, <i>Mahiyat</i> (Habitat), Parts used in medicine, <i>Mizaj</i> (Temperament), Chemical constituents, <i>Naf 'e Khas</i> (Actions according to Unani concept), <i>Muzir</i> (Side effect), <i>Muslih</i> (Corrective), <i>Badal</i> (Substitute), <i>Afal e Khawas</i> (Usage), <i>Miqdar e Khurak</i> (Dosage)			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %	Written 100 %,	Practical 80%,	Viva 20%.
Recommended Reading:			
<ol style="list-style-type: none"> 1. Ibn Baitar. Al JamiulMufradat al AdviawalAghzia. Vol I and II. New Delhi: CCRUM; 1999: 2. Ibn Sina. Al Qanoon Fil Tib (Urdu trans. by Kantoori GH).Vol. II New Delhi: IdaraeKitabusshifa; 2000. 3. Kabeeruddin M. MakhzanulMufradat. New Delhi: IdaraKitabusShifa; 2007 4. Najmul Ghani, KhazainulAdvia, New Delhi: IdaraKitabusShifa; YNM 			

Semester	4		
Course Code:	IA2202		
Course Name:	MufradAdvia		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	60	110
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			

1. Identify medicinal plants on the basis of their characteristics and apply accordingly
2. Comprehend the pharmacological actions of medicinal plants on various systems of the body.
3. Develop skills in the application of single drugs in accordance with the Unani concept.

Course Content: (Main topics, Sub topics)

Detail study of single drugs with following information, Tibbi Name of the plant, Botanical name, Natural order/Family , Synonyms - English, Tamil, Sinhalese, Arabic, Sanskrit, Mahiyat (Habitat), Parts used in medicine, Mizaj (Temperament), Chemical constituents, Naf 'e Khas (Actions according to Unani concept), Muzir (Side effect), Muslih (Corrective), Badal (Substitute), Afal e Khawas (Usage), Miqdar e Khurak (Dosage), Action and Indication of drugs, Important chemical constituents of medicinal plants, Basic experiments for actions of medicinal plants, Basic practical training of cultivation of medicinal plants.

Pharmacology

Fundamental of Pharmacology, principles and actions of Modern drugs on different systems of the body, Efficacy of drugs, Therapeutic application of drugs on different diseased conditions, Modern drugs from plant origin, Nomenclature of modern drugs, Pharmacokinetics, Pharmacodynamics, Toxicity, adverse drug reaction and drug interactions, The legal aspects of drug regulation, The ethical aspects and responsibilities of therapy and experiments, Importance of vitamins and minerals.

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment: 20 %	Written 100 %	Practical 80%	Viva 20%

Recommended Reading:

1. Ibn Baitar. Al JamiulMufradat al AdviawalAghzia. Vol I and II. New Delhi: CCRUM; 1999:
2. Ibn Sina. Al Qanoon Fil Tib (Urdu trans. by Kantoori GH).Vol. II New Delhi: IdaraeKitabusshifa; 2000.
3. Kabeeruddin M. MakhzanulMufradat. New Delhi: IdaraKitabusShifa; 2007
4. Najmul Ghani, KhazainulAdvia, New Delhi: IdaraKitabusShifa; YNM
5. Clinical Pharmacology

DawaSazi (Pharmacy)

Programme Content

Semester	5		
Course Code:	IA3103		
Course Name:	DawaSazi		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	60	110
<p>Course Aims/Intended Learning Outcomes:</p> <p>At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Develop skills in the preparation of compound medicines in accordance with the concept of Unani system of medicine, and modern technology. 2. Apply appropriate processing methods of purification or detoxification of poisonous drugs. 3. Develop skills in the application of compound Unani preparations with the due considerations to their indications, contraindications, side effects and dosage 4. Prepare compound medicines by using substitutes with due consideration to their cost, efficacy and safety in terms of Unani system of medicine. 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Introduction to the subject, <i>Aqsam e DawaSazi</i> (Types of Pharmacy), <i>Qarabardeen</i> (Pharmacopoeias) and their authors, Good manufacturing practices for Unani medicines Weight and measures used in Pharmacy <i>Qadeem</i> and <i>Jadeed</i> (Ancient and modern) and comparative study of them Importance of making compound preparations (<i>AdviakaMurakkabKarnekiZaroorat</i>), Dosage forms of internal and external preparations, terminology and processes of making compound preparations (<i>IstelahatVaAhmal e DawaSazi</i>), Purification and detoxification of single drugs (<i>DawaonkaSafKarnaVaTadbeer Karna</i>) General method of preparation and storage conditions of <i>Arq</i>, <i>Joshanda</i>, <i>Kaisanda</i> (Distilled medical preparation, Decoction, Infusion), Process of making different types of and storage, <i>Maa</i>, <i>Sat</i>, <i>Ushara</i>, <i>Sheera</i> and <i>Murawwaq</i> (Medicinal waters and Extracts) , General method of preparation and storage conditions of <i>Safoof</i> (Medicinal powders) General method of preparation and storage conditions of <i>Hab</i> and <i>Qurs</i> (Pills and Tablets) General method of preparation and storage conditions of <i>Sharbat</i>, <i>Sikanjanbeen</i> (Syrups, Vinegar syrup) , General method of preparation and storage conditions of <i>Murabba</i>, <i>Gulqand</i> (Preserves, Sugared flowers), General method of preparation of and storage conditions confections (<i>Itrifal</i>, <i>Majoon</i>, <i>Jawarish</i>, <i>Khameera</i>, <i>Laboob</i>, <i>Halva</i>) General method of preparation and storage conditions of <i>Roghan</i>, <i>Marham</i>, <i>Zimad</i> (Medicated oils, Ointments, Poultices), Vivid knowledge about Siddha and Ayurveda preparations.</p> <p>Murakkabat acting on various systems of the body with their ingredients, dosage, indications and contraindications, Method of writing <i>Nuskha</i> (Prescription), Rules and regulations on the usage of drugs, Introduction to quality control methods for compound medicines, and Contemporary developments of Unani Pharmaceutical preparations.</p>			

Introduction and establishment of herbal drug industry, Factors of GMP and GACP, standardization of raw materials, herbal formulation, standardization of finish products, and packaging, legal procedures in establishing a drug industry, Exposure in large scale manufacturing industries.			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects.			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment -20%	Written 100 %	Practical 80%	Viva20%.
Recommended Reading: 1. Hakeem Zillur Rahman, Jadeed Unani DawaSazi, IdaraKitabusShifa; 2009 2. Kabeeruddin M. BayazKabeer. Hyderabad: Hikmat book depot; 1921 3. National Formulary of Unani Medicine. New Delhi: Government of India;1993 4. Physicochemical Standards of Unani Formulations vol: I-V, Central Council for research in Unani Medicine, Department of Ayush, India, 2006 5. Ustadul Hakeem Muhammad Abdullah, KanzulMurakkabat, Eijaz Publishing			

Semester	6		
Course Code:	IA3203		
Course Name:	DawaSazi		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	60	110
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to 1. Develop skills in the preparation of compound medicines in accordance with the concept of Unani system of medicine, and modern technology. 2. Apply appropriate processing methods of purification or detoxification of poisonous drugs. 3. Develop skills in the application of compound Unani preparations with the due considerations to their indications, contraindications, side effects and dosage 4. Prepare compound medicines by using substitutes with due consideration to their cost, efficacy and safety in terms of Unani system of medicine.			
Course Content: (Main topics, Sub topics)			

Murakkabat acting on various systems of the body with their ingredients, dosage, indications and contraindications Method of writing <i>Nuskha</i> (Prescription), Rules and regulations with regard to the usage of drugs, Introduction to quality control methods for compound medicines, and Contemporary developments of Unani Pharmaceutical preparations			
Preparation of <i>Majoon</i> , Preparation of <i>Itrifal</i> , Preparation of <i>Jawarish</i> , Preparation of <i>Laooq</i> Preparation of <i>Laboob</i> , Preparation of <i>Halwa</i> , Preparation of <i>Roghan</i> , Preparation of <i>Marham</i> , Pharmaceutical factory visits			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment -20%	Written 100 %	Practical 80%	Viva20%.
Recommended Reading: 1. Hakeem Zillur Rahman, Jadeed Unani DawaSazi, IdaraKitabusShifa; 2009 2. Kabeeruddin M. BayazKabeer. Hyderabad: Hikmat book depot; 1921 3. National Formulary of Unani Medicine. New Delhi: Government of India;1993 4. Physicochemical Standards of Unani Formulations vol: I-V, Central Council for research in Unani Medicine, Department of Ayush, India, 2006 5. Ustadul Hakeem Muhammad Abdullah, KanzulMurakkabat, Eijaz Publishing			

KushtaSazi (Mineralogy)

Programme Content

Semester	5		
Course Code:	IA3104		
Course Name:	KushtaSazi		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes:			

At the completion of this course student will be able to

1. Develop skills in the *Kushta* preparations in accordance with the concept of Unani system of medicine, and modern technology
2. Apply appropriate processing method of purification or detoxification of poisonous drugs
3. Develop skills in the application of compound Unani preparations containing *Ma'dani* and *HaiwaniAdvia* with the due considerations to their indications, contraindications, side effects and dosage

Course Content: (Main topics, Sub topics)

Introduction to the subject and relevant books on *Kushta*, Definition of *Kushta*, origin and development of *IlmulKeemiya*, (Knowledge of chemistry), *Istilahat* used in *KushtaSazi*, Equipment used in *KushtaSazi*(*Putt, Jantar*),Method of making *Gil e Hikmat*, Introduction of new technology in the preparation of *Kushta*,Factors to be observed in the preparation of *Kushta* and, other relevant details, Proper preparation of *Kushta*, Method for increasing the potency of *Kushta*, Identification of *Kham Kushta* to ascertain the proper preparation of *Kushta*, General and specific tests for completely prepared *Kushta*, Introduction to Ayurveda Rasa preparations, Detail study of *Ma'dani* and *HaiwaniAdvia* with following information - Chemical Name, Scientific name, Synonyms,Purification, Method of preparation of compound preparations containing *Ma'dani* and *HaiwaniAdvia*,*Miqdar e Khurak*, *Iste'mal e Afal e Khawas* and *Badraqa*, Side effects of *Kushta*.

Practical

Identification of *Ma'dani* and *HaiwaniAdviya*, Demonstration of equipments and utensils used in *Kushta* preparation, Preparation of *Gil e Hikmat*, Manipulation of *Jantar* involved in *Kushta* preparations, Purification of *Ma'dani* and *HaiwaniAdviya*

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.

Assessment Strategy:

Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment -20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Reading:

1. Kabeeruddin H.M., KitabulTaklees. New Delhi: Central Council of Research in Unani Medicine,
2. Kabeeruddin, MakhzanulMurakkabat, IdaraKitabusShifa; 2009

3. Mahdihassan S. Indian Alchemy. 2nd ed. Delhi: Motilal Banarsidass;1991
4. Nadkarni KM. Indian Materia Medica. VolII., India: Saurab Printers; 2009.
5. Vohora S B, Khan S Y. Animal origin drugs used in Unani medicine:Vikar Publishing;1979

Semester	6		
Course Code:	IA3204		
Course Name:	KushtaSazi		
Credit Value:	3		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
<p>Course Aims/Intended Learning Outcomes:</p> <p>At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Develop skills in the <i>Kushta</i> preparations in accordance with the concept of Unani system of medicine, and modern technology 2. Apply appropriate processing method of purification or detoxification of poisonous drugs 3. Develop skills in the application of compound Unani preparations containing <i>Ma'dani</i> and <i>HaiwaniAdviya</i> with the due considerations to their indications, contraindications, side effects and dosage 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Detail study of <i>Ma'dani</i> and <i>HaiwaniAdviya</i> with following information:</p> <p>Chemical Name / Minerological name, Synonyms ,Purification, Method of preparation of compound preparations containing <i>Ma'dani</i> and <i>HaiwaniAdviya</i>,<i>Miqdar e Khurak</i>, <i>Iste'mal e Afal e Khawas</i> and <i>Badraq</i>,Side effects of <i>Kushta</i></p> <p>Practical</p> <p>Purification of <i>Ma'dani</i> and <i>HaiwaniAdviya</i>, Preparation of compound medicinal preparations containing <i>Ma'dani</i> and <i>HaiwaniAdviya</i></p>			
<p>Teaching /Learning Methods:</p> <p>Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.</p>			
<p>Assessment Strategy:</p>			

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment -20%	Written 100 %	Practical 80%	Viva 20%.
Recommended Reading: <ol style="list-style-type: none"> 1 Kabeeruddin H.M., KitabulTaklees. New Delhi: Central Council of Research in Unani Medicine, 2 Kabeeruddin, MakhzanulMurakkabat, IdaraKitabusShifa; 2009 3 Mahdihassan S. Indian Alchemy. 2nd ed. Delhi: Motilal Banarsidass;1991 4 Nadkarni KM. Indian Materia Medica.Voll., India: Saurab Printers; 2009. 5 Vohora S B, Khan S Y. Animal origin drugs used in Unani medicine:Vikar Publishing;1979 			

Optional Subjects

Nutrition and Food cum Medicine

Programme content:

Semester	2		
Course Code:	IA2205		
Course Name:	Nutrition and Food cum Medicine		
Credit Value:	2		
Core /Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	-	70
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to <ol style="list-style-type: none"> 1. Identify the role of nutrients in human health nutritional issue and Unani concept of food and disease 2. Identify and describe new trends in functional food and nutraceuticals 3. Discuss how diets can help in specific diseases 4. Describe the nutritional care though the primary health care in Sri Lanka 			
Course Content: (Main topics, Sub topics) Introduction, Nutraceuticalfactor,Food and non-food sources of nutraceutical factors, Natural herbal medicine as Nutraceuticals and functional foods, Mechanism of action, Classifying nutraceutical factors based on chemical nature, Marketed preparation of nutritional supplements, Medical foods as nutritional supplements, Effectiveness and safety			
Teaching /Learning Methods:			

Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %	Written 100 %,	–	Viva 20%.
Recommended Reading:			
1. Handbook of Nutraceuticals and Functional foods; Wildman REC, Kelley M			
2. Nutraceuticals and Functional Foods, Taylor & Francis			
3. Handbook of Analysis of Active Compounds in Functional Foods Nollet LML, F,			

Agro Techniques of Medicinal Plants

Programme content:

Semester	2		
Course Code:	IA2206		
Course Name:	Agro Techniques of Medicinal Plants		
Credit Value:	2		
Core /Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
Course Aims/Intended Learning Outcomes:			
At the completion of this course student will be able to			
1. Gain knowledge in basic methods of cultivation, propagation and preservation of medicinal plants			
2. Identify and describe new trends in agro techniques of plants			
Course Content: (Main topics, Sub topics)			
Introduction, Causes of stress and failure in plants, Basic tissue culture techniques, Nursery management, Propagation methods, Planting and aftercare, Propagation guide to selected medicinal plants, Exposure in new Agro techniques of medicinal plants.			
Teaching /Learning Methods:			
Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.			

Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %	Written 100 %,	Practical 80%	Viva 20%.
Recommended Readings			
<ol style="list-style-type: none"> 1. Cultivation Of Medicinal And Aromatic Crops, <u>Farooqi AA, B.S. Sreeramu BS</u> 2. Medicinal plants: utilization and conservation, Aavishkar, <u>Trivedi PC</u>, 3. Principles and Procedures of Plant Breeding. Chahal, G.s. and Gosal, S.S. 			

Industrial Drug Manufacture

Programme content:

Semester	2		
Course Code:	IA2207		
Course Name:	Industrial Drug Manufacture		
Credit Value:	2		
Core /Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Gain complete knowledge in good manufacturing of finished herbal products 2. Obtain exposition in large scale drug manufacturing industry 			
Course Content: (Main topics, Sub topics) Introduction, Establishment of drug industry, Factors of GMP, standardization of raw materials, standardization of finish products, and packaging, legal procedures in establishing a drug industry, Exposure in large scale manufacturing industries.			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes, student presentations, assignments and projects, small group learning activities.			
Assessment Strategy:			
One Continuous Assessment: 20 %		Final Assessment: 80 %	

One Continuous Assessment: 20 %	Written 100 %,	Practical 80%	Viva 20%.
References/Reading Materials:			
<ol style="list-style-type: none"> 1. Michel F Aulton BPharm PhD FAAps MR pharma - The design and manufacture of medicine 2. Daan J.A Crommelin (editor), Robert D Sindelar (editor) , Bernd meibohm - Pharmaceutical bio technology ;Fundamentals and Application ,3rd Edition 3. Orient Longman publishers – Textbook of industrial pharmacy: Drug delivery system & cosmetic and Herbal drug technology 			

23.4 Unit of Tahaffuzi wa Samaji Tib wa Ilmus Sumoom (Unit of Preventive, Social Medicine and Toxicology)

1. Tahaffuzi wa Samaji Tib
2. Research Methodology and Bio Statistics
3. Ilmus Sumoom / Toxicology

Optional Subjects

5. Herbal Beauty Culture
7. Drug Abuse Management

Tahaffuzi wa Samaji Tib

Programme Content

Semester	5		
Course Code:	TS3101		
Course Name:	Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)		
Credit Value:	03		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

1. Identify the health care principles of healthy living prescribed in Unani classical texts with the modern methods to maintain and promote health
2. Identify common health problems at the individual, family and community levels
3. Apply appropriate preventive strategies for identified common health problems
4. Identify the maternal and child health problems and advice on the family planning methods

Course Content: (Main topics, Sub topics)

Theory

Introduction to the subject, *Tareekh e Hifzan e Sehat*/ History of *Hifzan e Sehat*, Various concepts of *Sehat* and *Hifzan Sehat* and signs of *Sehat*, Applied aspect of *Asbab e Sit e Zarooriyain* maintaining *Sehat.Hammam*; Varieties and their effect on health. Applied aspect of *Asbab e Ghair Zarooriyain* maintaining *Sehat, Al Bilad* /Geographical conditions and related matters, *Maholiyati Asrath*/ Effects of environment, habitat, *Ilm e Mosamiyat*/ Meteorological environment and *Mosame Asarat Va Awarizat*/ Seasonal effects and their complication, seasonal abnormalities and their effects on the body, prevalence of seasonal diseases, management of temperamental abnormalities, *Al Masakin*/ Residential conditions and related matters, healthful housing, *Ziyaa e Fuziat*/ disposal of waste and excreta disposal, *As Sena'at*/ Occupation and related matters, *Al Adat*/ Habits and related matters, *Al Asnan*/ Age and related matters. Maintenance of balanced temperaments under the various conditions of life and applied aspects in primary health care in infancy, childhood, adults, *Amraz e Kuhoodiyat*/ Geriatrics, *Al Ajnas*/ Sex and related matters and *Umoor Muzadat Tabi'at*/ factors antagonistic to nature and bodily health

Practical

1. Community based health awareness programme.
2. Health Promotive Clinic: Measuring status of *Sehat*, Identifying the clinical manifestations and the prevention of Communicable and non-communicable diseases
3. Field Visits: Water Resources Board; Labugama, Ambatale, Kalatuwawa, Port Health, Slaughter house, Maternal and child health care centers, National Institute of Health, Kalutara, Institutes connected to Family Health Bureau, waste disposal sites and Public Health Department; Colombo Municipal Council owned houses, toilets and farms

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities ,practical classes(OPD) Preventive and social medicine Museum sessions, role play, Student presentations, Assignments and projects, small group learning activities, Community based health awareness Programmes and other field health activities.

Assessment Strategy:

Continuous Assessment -20%	Final Assessment- 80%		
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %

Recommended Reading:

1. Park K. Text Book of Preventive and Social Medicine. 23rd ed. Jabalpur: BanarasidasBhanot; 2015.
2. Ibn Sina. *AlQanoonfitTib* (Urdu translation by Kantoori GH). Vol-II. New Delhi: IdaraKitabushShifa; 2007.
3. Mohammad bin Zakariya Razi. *KitabulHawi fit Tib*. Vol 1-23. New Delhi: IdaraKitabushShifa; 2010.
4. Mazhar HShah. The General Principle Avicenna's Canon of Medicine. New Delhi: IdaraKitabushShifa; 2007.
5. Ibn Sina. *Al Qanoon fit Tib* (English Translation of the critical Arabic text).Book 1. Jamia Hamdard, NewDelhi; 1993.
6. Grunner O Cameron. A treatise on the canon of Medicine of Avicenna. London:Luzac and Co; 1930.

Semester	VI		
Course Code:	TS3201		
Course Name:	TahaffuziwaSamaji Tib (Preventive and Social Medicine)		
Credit Value:	04		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	30	125
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
5. Identify the health care principles of healthy living prescribed in Unani classical texts with the modern methods to maintain and promote health			
6. Identify common health problems at the individual, family and community levels			
7. Apply appropriate preventive strategies for identified common health problems			
8. Identify the maternal and child health problems and advice on the family planning methods			
Course Content: (Main topics, Sub topics)			
TahaffuziwaSamaji Tib			
<i>HifzanWaTarqee Karna e Sehat</i> (Preservation and promotion of health) , <i>JismaniSafayiya</i> / Personal hygiene , care of Organs, importance of personal hygiene, routine methods one should practice to maintained health special reference to tradition, faith, and culture as mentioned spiritually and medically, <i>Ilm e Vobayee</i> ,conceptof <i>Waba, Ta'dia, Asbab, Alamat and Hifz e Mataqaddam of MutaAddiAmraz and Hifz e Mataqaddam of Ghair e MutaAddiAmraz.</i>			

Definition of Health and well being, methods available to measure health and wellbeing, concept of disease causation and prevention, Health and Nutrition, Food components, Balanced diet, Nutritional deficiency diseases, Nutritional status, Determination of Nutritional status, Nutritional health problems and Food transmission diseases, Epidemiology, Prevention and control of communicable diseases and Immunization, Prevention and control of non communicable diseases, Health promotion and health education and Social responsibilities of a doctor, Health care services in Sri Lanka, Maternal and child health services, Antenatal, natal, post natal services, Family planning, Infant nutrition, growth and development, School health services, Social health services and primary healthcare services, International organizations of health services, Medical entomology.

Practical

1. Community based health awareness programme.
2. Health Promotive Clinic: Measuring status of *Sehat*, Identifying the clinical manifestations and the prevention of Communicable and non-communicable diseases
3. Field Visits: Water Resources Board; Labugama, Ambatale, Kalatuwawa, Port Health, Slaughter house, Maternal and child health care centers, National Institute of Health, Kalutara, Institutes connected to Family Health Bureau, waste disposal sites and Public Health Department; Colombo Municipal Council owned houses, toilets and farms

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities ,practical classes(OPD) Preventive and social medicine Museum sessions, role play, Student presentations, Assignments and projects, small group learning activities, Community based health awareness Programmes and other field health activities.

Assessment Strategy:

Continuous Assessment -20%	Final Assessment- 80%		
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %

Recommended Reading:

1. Park K. Text Book of Preventive and Social Medicine. 23rd ed. Jabalpur: Banarasidas Bhanot; 2015.
2. Ibn Sina. *AlQanoon fit Tib* (Urdu translation by Kantoori GH). Vol-II. New Delhi: Idara Kitabush Shifa; 2007.
3. Mohammad bin Zakariya Razi. *KitabulHawi fit Tib*. Vol 1-23. New Delhi: Idara Kitabush Shifa; 2010.
4. Mazhar H Shah. The General Principle Avicenna's Canon of Medicine. New Delhi: Idara Kitabush Shifa; 2007.
5. Ibn Sina. *Al Qanoon fit Tib* (English Translation of the critical Arabic text). Book 1. Jamia Hamdard, New Delhi; 1993.
6. Grunner O Cameron. A treatise on the canon of Medicine of Avicenna. London: Luzac and Co; 1930.

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Research Methodology and Bio Statistics

Programme Content

Semester	III		
Course Code:	TS2102		
Course Name:	Research Methodology		
Credit Value:	01		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	-	35
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Develop skills in the appropriate Research Methodology 2. Develop skills in relevant statistical software 			
Course Content: (Main topics, Sub topics)			
Introduction to research methodology, selection of research topic, principles and methods of literary research, research methods and study design, data collecting techniques, research ethics, sampling techniques sample size and data analysis.			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment- 80%	
One Continuous Assessment -20%	Written 100%	Practical -	Viva -
Recommended Reading:			
<ol style="list-style-type: none"> 1. Bhaskara Rao T. Research Methodology. Paras Medical Publisher: 3rd edition Hyderabad; 2010. 2. Kothari C R. Research Methodology: Methods and Techniques. 3rd edition. New age International (p) limited, publishers: 2004. 3. Bhaskara Rao T. Methods of Bio statistics. Paras Medical Publisher: Hyderabad; 2010. 			

Semester	IV
Course Code:	TS2202
Course Name:	Bio Statistics
Credit Value:	01

Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	-	35
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Collect, analyze, interpret and present simple community and hospital based data 2. Develop skills in relevant statistical softwares. 			
Course Content: (Main topics, Sub topics) Mean, mode, median, SD, SE, basic statistics, central tendency and computeraid data analysis. Coding the data, prevalence, trends of co relation, introductionto medical statistics, effective proposal and report writing			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment- 80%	
One Continuous Assessment -20%	Written 100%	Practical -	Viva -
Recommended Reading:			
<ol style="list-style-type: none"> 1. 1. Bhaskara Rao T. Research Methodology. Paras Medical Publisher: 3rd edition Hyderabad; 2010. 2. Kothari C R. Research Methodology: Methods and Techniques. 3 rd edition. New age International (p) limited, publishers: 2004. 3. Bhaskara Rao T. Methods of Bio statistics. Paras Medical Publisher: Hyderabad; 2010. 			

Ilmusumoom / Toxicology

Programme Content

Semester	VII		
Course Code:	TS4103		
Course Name:	Ilmusumoom		
Credit Value:	03		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Identify the health risks related to toxicology 			

2. Understand the environmental and occupational health hazards.
3. Provide the preliminary measures in intoxicated and venomated cases and refer to appropriate centers

Course Content: (Main topics, Sub topics)

Evolution of Medicine towards *Ilmus Sumoom*, Concept of *Sum*, *Aqsam e Sum*, *Miqdar e Sum*, *Miqdar e Mumeet*, and *Arza e Mumeet*.

General management of poisoning, First aid measures and special management.

Sumoom Wa Triyaq, *Thriyaq e Mufradha* and *Thriyaq e murakkaba*.

Moalejat e Ilmus Sumoom: Nabathi Zahar and its *Alamat*, *Alamat e Tashkheesa*, *Miqdar e Mumeet*,

Miqda e Arza, *Anjam Wa Usool e Ilaj*. *Afiyoon*, *Bhang*, *Datura*,

Jamalgota, *Kuchla*, *Bachnak*, *Foxglove*, *Madar*, *Seethraj*, *Ajwain*, *Bilawa*, *Yebrooj*, *Tambago*, *Muleem*, *Neri um odorem*, *Thevetia peruviana*, *Kafoor*, *Manihot utilisima*, *Adenia palmate* and *Rasasea group*.

Haiwani Zahar and its *Mikdar e Sum*, *Alamat*, *Alamat e Tasheesa*, *Miqdar e Mumeet*, *Miadar e Arza*, *Anjam Wa Usool e Ilaj*, Poisonous snake, Domestic pets and dog, Insect bites: scorpion Centipede, Spider, Wasp and Marine animals.

Ma'dani Zahar and its *Miqdar e Sum*, *Alamat*, *Alamat e Tashkheesa*, *Miqdar e Mumeet*, *Miqdar e Arza*, *Anjam e Usool e Ilaj*, *Para*, *Sankiya*, *Surb*, *Tootiya*, Cadmium, Chromium, Aluminium, Zinc, Antimony, Phosphorous and Sulphur.

Environmental Toxicology: *Mufsidat e Pani*, *HawawaMitti*

Practical:

1. Identification of *Nabathizahar* and *HaiwaniZahar*
2. Demonstration on gastric lavage
3. Educational Field Visits; National Zoological Garden, Traditional *Sarpavisha*
4. *Vedakam* practicing places
5. 10 case studies should be made with the association of OPD / IPD of the Teaching Hospital of Ayurveda.

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes at Toxicology Museum sessions, role play, Student presentations, Assignments and projects, small group learning activities.

Assessment Strategy:

Continuous Assessment -20%	Final Assessment- 80%		
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %

Recommended Reading:

1. 1. IbnuSina. Al Qanun Fit Tib (Urdu translation by Hakeem Sayyed Ghulam HusnainKanturi). Vol. II and III. New Delhi; Idara Kitab –us – Shifa;2007
2. Mohammad Kabeeruddeen. MakhzanulMufradat. New Delhi:IdaraKitabu Shifa;2010
3. Pillay VV. Modern Medical Toxicology. 3rd edition. New Delhi; Jaypee Brothers. 2005.
4. Henry Methew A, A H Lawson, Treatment of acute poisoning
5. RaveendraFernado. Management of Poisoning. NPIC, NHSL. 2002.

Semester	VIII		
Course Code:	TS4203		
Course Name:	IlmusSumoom		
Credit Value:	02		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

1. Identify the health risks related to toxicology
2. Understand the environmental and occupational health hazards.
3. Provide the preliminary measures in intoxicated and venomated cases and refer to appropriate centers

Course Content: (Main topics, Sub topics)

Prevention of poisoning, Occupational and industrial toxicology, Classification of chemicals, mode of entry,

Safe exposure level, health hazards, monitoring, Prevention and control of hazards,

Chloroform, Ether, Phenol and Chloral hydrate, Acids:Carbolicacid,Hydrochloric acid, Sulphuricacid,Nitricacids,Hydrocyanicacid,Citricacid,Acetic acid and Oxalic acids.

Petroleum products:Kerosene,Benzene,Petrol,Naphthalene, Waselineand Paraffin

Alcohol:Ethyl alcohol, Methyl alcohol and Isopropyl alcohol

Drugs of Abuse, Drug addictions, drug habituation, classification, complications and drug withdrawal symptoms and measures for prevention, Food Toxicology, Food contaminants, Food Additives, Natural Toxins, Nutritional Hazards and Food borne Hazards / Microbiological origin, Laws and Legislations in Toxicology, Medico legal aspects and responsibilities in a case of poisoning

Practical:

1. Identification of *Ma'daniZahar*

2. 10 case studies should be made with the association of OPD / IPD of the Teaching Hospital of Ayurveda.			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes at Toxicology Museum sessions, role play, Student presentations, Assignments and projects, small group learning activities.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment- 80%	
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %
Recommended Reading:			
1. IbnuSina. Al Qanun Fit Tib (Urdu translation by Hakeem Sayyed Ghulam HusnainKanturi). Vol. II and III. New Delhi; Idara Kitab –us – Shifa;2007			
2. Mohammad Kabeeruddeen. MakhzanulMufradat. New Delhi:IdaraKitabu Shifa;2010			
3. Pillay VV. Modern Medical Toxicology. 3 rd edition. New Delhi; Jaypee Brothers. 2005.			
4. Henry Methew A, A H Lawson, Treatment of acute poisoning			
5. RaveendraFernado. Management of Poisoning. NPIC, NHSL. 2002.			

Optional Subjects

Herbal Beauty Culture

Programme Content

Semester	VII		
Course Code:	TS4105		
Course Name:	Herbal Beauty Culture		
Credit Value:	02		
Core/Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to Develop skills to obtain exposition in corporate sector.			
1. To identify the composition, function and preparation of different Herbal cosmetics			
2. To manage a self-owned parlour or to assist the employer in managing the Parlour.			
Course Content: (Main topics, Sub topics)			

<p>Analysis of one's assets and liabilities with reference to personality in elimination of the negative and accentuating of the positive beauty problems, Skin care – Basic steps for skin care routine, Care of hair, face, neck, back, hands and feet, Beauty with fruits and vegetables</p> <p>Body shaping health care, Massage and reflexology</p> <p>Practical</p> <p>Practical demonstration on herbal beauty culture treatments at Spa center of IIM</p>			
<p>Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities</p>			
<p>Assessment Strategy:</p>			
<p>Continuous Assessment -20%</p>		<p>Final Assessment- 80%</p>	
<p>One Continuous Assessment -20%</p>	<p>Written 100%</p>	<p>Practical 80</p>	<p>Viva 20</p>
<p>Recommended Reading:</p> <p>1. Rashmi Sharma, Herbal Beauty Care, 2nd edition</p>			

Drug Abuse Management

Programme Content

Semester	VIII		
Course Code:	TS4207		
Course Name:	Drug Abuse Management		
Credit Value:	02		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
<p>Course Aims/Intended Learning Outcomes:</p> <p>At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. To describe a method of searching for substance abuse related information on the WEB and the current patterns of use of Alcohol, Tobacco, Cocaine and other mood altering substances in our society 2. To describe the researched method of screening patients for tobacco, alcohol and other drug abuse. 3. To describe methods for making viable referrals for specialized treatment and / or other community services for substance use disorders. 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Theory</p>			

Classification of addictive drugs, effects and characteristics, clinical features of poisoning, prevention and treatment of poisons, counseling, management of drug abuse and relevant law.

Practical

Case studies and role play

Visit to drug abuse treatment and rehabilitation centers

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities

Assessment Strategy:

Continuous Assessment -20%	Final Assessment- 80%		
One Continuous Assessment -20%	Written 100%	Practical 80	Viva 20

Recommended Reading:

1. Mim J. Landry- Understanding Drugs of abuse: The process of Addiction, Treatment and Recovery.
2. Robert T. Ammermann, Peggy J , Ott Ralph E, Tarter – Prevention and social impact of Drug and Alcohol Abuse .
3. Steve Sussman, Susan L. Ames - The Social Psychology of Drug Abuse.

23.5 Unit of Moalejat (Unit of Clinical Medicine)

1. Usool e TashkheeswaSareeriyat

2. Kulliyat e Ilaj (Fundamentals of Treatment)

3.Moalejat (Unani Clinical Medicine)

Optional Subjects

4.Psychology and Counseling

5.Massage and Physical therapy

6.Panchakarma

Usool e TashkheeswaSareeriyat (Principles of Diagnosis)

Programme content:

Semester	5
Course Code:	MJ3101
Course Name:	Usool e TashkheesVaSareeriyat

Credit Value:	03		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Analyze the patients' complaints based on Unani and modern fundamental principles 2. Interact with the patients, gather the complaints, analyze and record them in an organized manner highlighting the Unani fundamentals as well. 3. Examine the patients by inspection, palpation, percussion, and auscultation and to suggest relevant laboratory tests for diagnosing the disease correlating the Unani basic principles. 4. Distinguish clinical and surgical conditions. 			
<p>Course Content: (Main topics, Sub topics) Introduction to the subject, History taking, Basic introduction to general examination and commonly used instruments, .IlmulHalat e Badan (States of body), Ajnas e Amraz (Classification of Diseases) Darjat e Amraz (Stages of disease), IlmulAsbab(Aetiology), Ilmul Alamat (Symptomatology),Alamat e Mizaj (Features of Temperament), Significance of Bole (Urine), Baraz (Faeces), Nabz (Pulse), Khoon (Blood) and Balgham (Sputum) in diagnosis.</p>			
<p>Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes (OPDand Ward), role play,student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.</p>			
Assessment Strategy:			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %	Written 100 %	Practical 80%	Viva 20%.
<p>Recommended Readings</p> <ol style="list-style-type: none"> 1. Ibn Nafees. KulliyateNafeesi (Urdu trans. By Kabeeruddin M) New Delhi: 2. Ibn Rushd. KitabulKulliyat. 2nd ed. New Delhi: CCRUM; 1987. 3. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-Kotob Al-Ilmiyah; 1999. 4. Ibn Sina. Al Qanoon fit Tib. (Urdu translation by Kantoori GH). Vol.3. Part 2. New Delhi: IdarakitabusShifa. 5. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New 6. Michael S, Stuart Mason. Hutchison's Clinical methods.18th ed. East Sussex: 7. Graham D et al. MacLeod's Clinical Examination. 11th ed. Edinburgh: 			

Semester	6		
Course Code:	MJ3201		
Course Name:	Usool e Tashkhees Va Sareeriyat		
Credit Value:	03		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
<p>Course Aims/Intended Learning Outcomes:</p> <p>At the completion of this course student will be able to</p> <ul style="list-style-type: none"> ➤ Analyze the patients' complaints based on Unani and modern fundamental principles ➤ Interact with the patients, gather the complaints, analyze and record them in an organized manner highlighting the Unani fundamentals as well. ➤ Examine the patients by inspection, palpation, percussion, and auscultation and to suggest relevant laboratory tests for diagnosing the disease correlating the Unani basic principles. ➤ Distinguish clinical and surgical conditions. 			
<p>Course Content: (Main topics, Sub topics)</p> <p>Introduction to the subject, History taking, Basic introduction to general examination and commonly used instruments, .IlmulHalat e Badan (States of body), Ajnas e Amraz (Classification of Diseases) Darjat e Amraz (Stages of disease), IlmulAsbab(Aetiology), Ilmul Alamat (Symptomatology),Alamat e Mizaj (Features of Temperament), Significance of Bole (Urine), Baraz (Faeces), Nabz (Pulse), Khoon (Blood) and Balgham (Sputum) in diagnosis.</p>			
<p>Teaching /Learning Methods:</p> <p>Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.</p>			
<p>Assessment Strategy:</p>			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %		Details: written 100 % Practical 80% Viva 20%.	
<p>References/Reading Materials:</p> <ol style="list-style-type: none"> 1. Ibn Nafees. Kulliyate Nafeesi (Urdu trans. By Kabeeruddin M) New Delhi: 2. Ibn Rushd. Kitabu Kulliyat. 2nd ed. New Delhi: CCRUM; 1987. 3. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-Kotob Al-Ilmiyah; 1999. 4. Ibn Sina. Al Qanoon fit Tib. (Urdu translation by Kantoori GH). Vol.3. Part 2. New Delhi: IdarakitabusShifa. 			

5. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New
6. Michael S, Stuart Mason. Hutchison's Clinical methods. 18th ed. East Sussex:
7. Graham D et al. MacLeod's Clinical Examination. 11th ed. Edinburgh:

Kulliyat e Ilaj (Fundamentals of Treatment)

Programme content:

Semester	5		
Course Code:	MJ3102		
Course Name:	Kulliyat e Ilaj		
Credit Value:	3		
Core (compulsory) /Optional / Auxiliary	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Recognize the objectives of fundamentals of treatment 2. Formulate Usool e Ilaj (Principles of Treatment) and its mode of application in various diseases 			
Course Content: (Main topics, Sub topics)			
<i>Anwa ul Ilaj (1:15/00)</i>			
Fundamentals of treatments and the objectives, Factors to be observed in <i>Ilaj</i> , Classification of <i>Ilaj</i> and their descriptions, <i>IlajbilTaghziya</i> (Dieto therapy), <i>IlajBilAdviya</i> (Pharmaco therapy), <i>IlajBilTadbeer</i> (Regimental therapy), <i>Isthifaragh</i> (Ewacuation) methods and their principles of application			
<i>Qawaneen ul Ilaj (2:15/30)</i>			
<i>Qanoon e Nuzj</i> (Coction), <i>Qanoon eIs'hal</i> (Principles of Inducing Purgation), <i>Qanoon e Huqna</i> (Principles of Enema), <i>Qanoon e Muqayyat</i> (Principles of Inducing Emesis), <i>Qanoon e Ta'reeq</i> (Principles of Inducing Perspirations), <i>Qanoon e Idrar</i> (Principles of Inducing Flow)			
Teaching /Learning Methods:			

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Ibn Nafees. Kulliyate Nafeesi (Urdu trans. by Kabeeruddin M New Delhi:
2. Ibn Rushd. Kitabu Kulliyat. 2nd ed. New Delhi: CCRUM; 1987.
3. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 1999.
4. Ibn Sina. Al Qanoon fit Tib. (Urdu translation by Kantoori GH). Vol.3. Part 2. New Delhi: Idarakitabus Shifa.
5. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New
6. Michael S, Stuart Mason. Hutchison's Clinical methods. 18th ed. East Sussex:
7. Graham D et al. MacLeod's Clinical Examination. 11th ed. Edinburgh:

Semester	6		
Course Code:	MJ3202		
Course Name:	Kulliyat e Ilaj		
Credit Value:	4		
Core (compulsory) /Optional / Auxiliary	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	60	60

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

1. Recognize the objectives of fundamentals of treatment
2. Formulate Usool e Ilaj (Principles of Treatment) and its mode of application in various diseases

Course Content: (Main topics, Sub topics)

Qawaneen ul Ilaj

Qanoon e Tanfees (Principles of Inducing Expectoration), *Qanoon e Imala* (Principles of Diversion), *Qanoon e Nutool* (Principles of Irrigation), *Qanoon e Su'oot* (Principles of Errhine Therapy), *Qanoon e Kai* (Principles of Cauterization), *Qanoon e Dalak* (Principles of Massage), *Qanoon e Hijamat*

(Principles of Cupping), *Qanoon e Fasd* (Principles of Venesection), *Qanoon Irsal e Alaq* (Principles of Leeching), *Usool Illaj* (Principles of treatment) of common diseases, Introduction to other Indigenous and Traditional Therapy

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Ibn Nafees. Kulliyate Nafeesi (Urdu trans. by Kabeeruddin M New Delhi:
2. Ibn Rushd. Kitabu Kulliyat. 2nd ed. New Delhi: CCRUM; 1987.
3. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 1999.
4. Ibn Sina. Al Qanoon fit Tib. (Urdu translation by Kantoori GH). Vol.3. Part 2. New Delhi: Idarakitabus Shifa.
5. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New
6. Michael S, Stuart Mason. Hutchison's Clinical methods. 18th ed. East Sussex:
7. Graham D et al. MacLeod's Clinical Examination. 11th ed. Edinburgh:

Moalejat (Unani Clinical Medicine)

Programme content:

Semester	7		
Course Code:	MJ4103		
Course Name:	Moalejat (Unani Clinical Medicine)		
Credit Value:	03		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			

<ol style="list-style-type: none"> 1. Examine patients according to Unani and modern concepts and recommend necessary investigations 2. Provide initial management for emergencies and refer to the relevant institutions 3. Diagnose medical disorders and emergencies based on Unani concepts 4. Plan management modalities and apply 			
<p>Course Content: (Main topics, Sub topics) Amraz e Mafasil WaAzlat (Diseases of Joints and Muscles), Amraz e Mari, Me'ada and Am'a (Diseases of Alimentary Tract)</p>			
<p>Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.</p>			
<p>Assessment Strategy:</p>			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100%,	Practical 80%	Viva 20 %
<p>Recommended Readings:</p> <ol style="list-style-type: none"> 1. Ibn Sina, Al Qanoon Fit Tib. (Urdu trans. by Kantoori GH) Vol III. Delhi: Idara Kitab-us-Shifa; 2010. 2. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 1999. 3. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New Delhi: Idara Kitab-us- Shifa. Publication; 2002. 4. Razi ABZ. Al Hawi Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 2000. 5. Razi ABZ. Al Hawi Fil Tib (Urdu). New Delhi: CCRUM 6. Tabri AR. Firdausul Hikmat. (Urdu trans. by Hakeem MA Shah). Deoband: Faisal 7. Colledge NR, Walker BR, Ralston SH. Davidson's Principles and Practice of Medicine. 21st ed. Edinburgh: Churchill Livingstone; 2017 8. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J. Harrison's principles of Internal Medicine. 18th ed. New York: Mc Graw-Hill Companies 9. Goldman, L. and Schafer, A. Goldman-Cecil Medicine, 25th Edition. Philadelphia: Elsevier Saunders; 2015 10. Kumar P and Clark M. Kumar and Clark's Clinical Medicine, 9th Edition. Elsevier; 2017 			

Semester	8		
Course Code:	MJ4203		
Course Name:	Moalejat (Unani Clinical Medicine)-		
Credit Value:	05		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	60	145
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Examine patients according to Unani and modern concepts and recommend necessary investigations 2. Provide initial management for emergencies and refer to the relevant institutions 3. Diagnose medical disorders and emergencies based on Unani concepts 4. Plan management modalities and apply 			
<p>Course Content: (Main topics, Sub topics) Amraz e DimaghWaA'sab (Diseases of Nervous System), Amraz e Kulya Vo Masana (Diseases of Urinary System), Amraz e Jigar, Mirrara Vo Tihal (Diseases of Liver and Biliary System and Spleen)</p>			
<p>Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.</p>			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%		Written 100%, Practical 80%, Viva 20 %	
<p>Recommended Readings:</p> <ol style="list-style-type: none"> 1. Ibn Sina, Al Qanoon Fit Tib. (Urdu trans. by Kantoori GH) Vol III. Delhi: Idara Kitab-us-Shifa; 2010. 2. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 1999. 3. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New Delhi: Idara Kitab-us- Shifa. Publication; 2002. 4. Razi ABZ. Al Hawi Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 2000. 5. Razi ABZ. Al Hawi Fil Tib (Urdu). New Delhi: CCRUM 6. Tabri AR. Firdausul Hikmat. (Urdu trans. by Hakeem MA Shah). Deoband: Faisal 			

7. Colledge NR, Walker BR, Ralston SH. Davidson's Principles and Practice of Medicine. 21st ed. Edinburgh: Churchill Livingstone; 2017
8. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J. Harrison's principles of Internal Medicine. 18th ed. New York: Mc Graw-Hill Companies
9. Goldman, L. and Schafer, A. Goldman-Cecil Medicine, 25th Edition. Philadelphia: Elsevier Saunders; 2015
10. Kumar P and Clark M. Kumar and Clark's Clinical Medicine, 9th Edition. Elsevier; 2017

Semester	9		
Course Code:	MJ5103		
Course Name:	Moalejat (Unani Clinical Medicine)		
Credit Value:	03		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Examine patients according to Unani and modern concepts and recommend necessary investigations 2. Provide initial management for emergencies and refer to the relevant institutions 3. Diagnose medical disorders and emergencies based on Unani concepts 4. Plan management modalities and apply 			
Course Content: (Main topics, Sub topics) <i>Hummiyat</i> (Fevers), <i>Amraz e Qalb</i> (Diseases of Heart)			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100%,	Practical 80%	Viva 20 %
Recommended Readings:			
<ol style="list-style-type: none"> 1. Ibn Sina, Al Qanoon Fit Tib. (Urdu trans. by Kantoori GH) Vol III. Delhi: Idara Kitab-us-Shifa; 2010. 			

2. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 1999.
3. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New Delhi: Idara Kitab-us- Shifa. Publication; 2002.
4. Razi ABZ. Al Hawi Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 2000.
5. Razi ABZ. Al Hawi Fil Tib (Urdu). New Delhi: CCRUM
6. Tabri AR. FirdausulHikmat. (Urdu trans. by Hakeem MA Shah). Deoband: Faisal
7. Colledge NR, Walker BR, Ralston SH. Davidson's Principles and Practice of Medicine. 21st ed. Edinburgh: Churchill Livingstone; 2017
8. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J. Harrison's principles of Internal Medicine. 18th ed. New York: Mc Graw-Hill Companies
9. Goldman, L. and Schafer, A. Goldman-Cecil Medicine, 25th Edition. Philadelphia: Elsevier Saunders; 2015
10. Kumar P and Clark M . Kumar and Clark's Clinical Medicine, 9th Edition. Elsevier; 2017

Semester	10		
Course Code:	MJ5203		
Course Name:	Moalejat (Unani Clinical Medicine)		
Credit Value:	5		
Core (compulsory) /Optional / Auxiliary	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	60	145
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Examine patients according to Unani and modern concepts and recommend necessary investigations 2. Provide initial management for emergencies and refer to the relevant institutions 3. Diagnose medical disorders and emergencies based on Unani concepts 4. Plan management modalities and apply 			
Course Content: (Main topics, Sub topics) Amraz e Nizam e Tanaffus (Diseases of Respiratory System), Amraz e A'za Nasla Mardana (Diseases of Male Genital Organs), Amraz e Jild (Diseases of Skin), Sartan (Malignancies), Amraz e Nafsaniya (Psychological Disorders)			
Teaching /Learning Methods:			

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, Community based medical camps and health awareness Programmes.

Assessment Strategy:

Continuous Assessment -20%	Final Assessment - 80%		
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %

Recommended Readings:

1. Ibn Sina, Al Qanoon Fit Tib. (Urdu trans. by Kantoori GH) Vol III. Delhi: Idara Kitab-us-Shifa; 2010.
2. Ibn Sina. Al Qanoon Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 1999.
3. Majoosi ABA. Kamilus Sanaa (Urdu trans. by Kantoori GH) Vol I & II. New Delhi: Idara Kitab-us- Shifa. Publication; 2002.
4. Razi ABZ. Al Hawi Fil Tib (Arabic). Lebanon: DAR al-KOTOB al-ILMIYAH; 2000.
5. Razi ABZ. Al Hawi Fil Tib (Urdu). New Delhi: CCRUM
6. Tabri AR. Firdausul Hikmat. (Urdu trans. by Hakeem MA Shah). Deoband: Faisal
7. Colledge NR, Walker BR, Ralston SH. Davidson's Principles and Practice of Medicine. 21st ed. Edinburgh: Churchill Livingstone; 2017
8. Longo DL, Kasper DL, Jameson JL, Fauci AS, Hauser SL, Loscalzo J. Harrison's principles of Internal Medicine. 18th ed. New York: Mc Graw-Hill Companies
9. Goldman, L. and Schafer, A. Goldman-Cecil Medicine, 25th Edition. Philadelphia: Elsevier Saunders; 2015
10. Kumar P and Clark M . Kumar and Clark's Clinical Medicine, 9th Edition. Elsevier; 2017

Optional Subjects

Psychology and Counseling

Semester	8		
Course Code:	MJ4204		
Course Name:	Psychology and Counseling		
Credit Value:	02		
Core / Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55

Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Summarize the basic skills needed to be a successful counselor 2. Identify the counseling skills a social worker needs. 3. Compare and contrast counseling techniques in diverse environments. 4. Apply the major counseling techniques. 			
Course Content: (Main topics, Sub topics) Introduction to General Psychology, Developmental Psychology, Social Psychology, Psychology of Abnormal Behavior Introduction to counseling, Code of Ethics, Counseling Techniques, Counseling Treatment Plan			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities role play, student presentations, assignments and projects.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %
Recommended Readings:			
<ol style="list-style-type: none"> 1. Mangal S.K (2004) An Introduction to psychology, 4th edition sterling publishers Pvt. Ltd India 2. Coleman C. James (1976) Abnormal psychology and modern life 5th edition Universal book corporation, USA 3. Shard S. Richard (2006) – Theories of Psychotherapy and counseling 3rd Edition, Thomson publication, USA 4. Dorothy Abeywickrama, (1983) Counseling skills 1st edition Lake House publishers, Sri Lanka 			

Massage and Physical Therapy

Programme content:

Semester	8		
Course Code:	MJ4205		
Course Name:	Massage and Physical Therapy		
Credit Value:	02		
Core/Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
Course Aims/Intended Learning Outcomes:			

At the completion of this course student will be able to			
4. Recognize the importance of procedure specified in the physical therapy to maintain the health and reverse the pathological process.			
5. Apply appropriate intervention to suit the individual cases			
Course Content: (Main topics, Sub topics)			
Massage Anatomy, Massage Physiology, Massage strokes, requirement of Massage therapy centre, Head massage therapy, Limbs massage therapy, Body front massage therapy, back massage therapy, baby massage therapy, pregnancy massage therapy, Aged massage therapy.			
Introduction to Physical therapy, Paediatric physical therapy, Geriatrics physical therapy and Gynecological physical therapy. Musculo skeletal and Neurological physical therapy.			
Teaching /Learning Methods:			
Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %
Recommended Readings:			
12. Massage Therapy, Harisjohari			
13. Neurological Rehabilitation Optimizing Motor performance, Janet Carr and Roerta Shepherd			

Panchakarma

Programme content:

Semester	8		
Course Code:	MJ4206		
Course Name:	Panchakarma		
Credit Value:	02		
Core /Optional	Optional		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	15	30	55
Course Aims/Intended Learning Outcomes:			
At the completion of this course student will be able to			
1. To recognize the principles of Panchakarma that could be applicable to various conditions.			

2. To design intervention modalities to suit the individual cases			
Course Content: (Main topics, Sub topics) Introduction on Panchakarma and its various concepts, Poorwakarma, Pradhanakarma, Paschat Karma. Snigdha Karma, Sweda Karma, Wamana Karma, Virechana karma, Wasti Karma (Niruha and Anuwasana), Nasya, Rakthamokshana, Kshudra Karma			
Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities.			
Assessment Strategy:			
Continuous Assessment -20%		Final Assessment - 80%	
One Continuous Assessment -20%	Written 100%	Practical 80%	Viva 20 %
Recommended Readings:			
<ol style="list-style-type: none"> 1. Waidyaka Sarartha Sangrahaaya, Kumarasinghe A. 2. Sinhala Yoga Rathnakaraya 3. Watika Prakaranaya, Waidyarathna S.S.T., Waidyarathna M.T.S. 4. Cakradatta (English Translation), Sharma P.V 			

23.6 Unit of Deshiyalaj (Unit of Traditional Medicine)

1. Deshiyalaj

Programme content:

Semester	7		
Course Code:	DI4101		
Course Name:	Deshiyalaj		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	60	110
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Understand the traditional medical practices indigenous to Sri Lanka and Islamic cultural treatment modalities. 2. Develop skills in diagnosing the diseases based on the traditional methods and techniques. 			

3. Manufacture medicinal preparations using traditional methods and proper methods of applying the treatment modalities			
Course Content: (Main topics, Sub topics) Traditional primary healthcare knowledge will be imparted in the following Deshiyailaj disciplines. Traditional treatment for Sarma Rogam, Udaivu Murivu, Kattikal, Erikayam, Watha Rogham, Paambuk Kadi Nayana Rogham and Traditional treatment for Siruwar Noihal			
Practical Field visits to traditional physicians			
Teaching /Learning Methods: Lectures, Acute clinical settings, Community settings, OPD clinic and Ward rounds, Multi-disciplinary meetings, e - Learning, Student led Seminars, Reflective practice, Self-directed learning, assignments			
Assessment Strategy:			
Continuous Assessment 20%		Final Assessment 80%	
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.
Recommended Readings			
<ol style="list-style-type: none"> 1. Ettu Maruthuvam. Department of Ayurveda: Colombo; 2. Hamarneh, Sami Khalaf. Yunani (Unani), Arabic and Islamic Medicine and Pharmacy: Hamdard Foundation: Pakistan; 1997. 3. Haroon M A. Thirukkuran Iyat kai Maruthuvam. 6th edition: Abupathippakka: Channai ;2009. 4. Higuchi, Machiko. Traditional Health Practice in Sri Lanka. Amsterdam: Netherlands: VU University; 2002. 5. John C A. Outline of Fracture. 8th ed: Churchill Livingstone New York;1983. 6. Kathiresan A. Noiyinri Vaazhka. 1st ed: Pavaipublication: Chennai:2004. 7. Tibbunnabavi-IbnulQayyim (English) 8. WHO Traditional Medicine Strategy 2002 – 2005: Geneva: WHO;2002. Abeysekera S. A. Chandra. Traditional Medicine in Sri Lanka and Neighboring Countries. 2nd ed. Mathtegoda; 2007. 			

Semester	8
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Course Code:	DI4201										
Course Name:	Deshiyallaj										
Credit Value:	3										
Core /Optional	Core										
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning								
	30	30	90								
<p>Course Aims/Intended Learning Outcomes:</p> <p>At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Understand the traditional medical practices indigenous to Sri Lanka and Islamic cultural treatment modalities. 2. Develop skills in diagnosing the diseases based on the traditional methods and techniques. 3. Manufacture medicinal preparations using traditional methods and proper methods of applying the treatment modalities. 											
<p>Course Content: (Main topics, Sub topics)</p> <p>Traditional primary health care knowledge will be imparted in the following Deshiyailaj disciplines</p> <p>Traditional treatment for Mahapperu Maruththu wamum, Pennoikal, Peenasrogham, Maandam, Vishawaithiyam, Puththunarchi Maruththu wam, Waitrotta m, Iraththam Kutthieduthal, Manabimaruththu wam, Noithaduppumuraikal,</p> <p>Practical</p> <p>Clinical demonstration of treatments for various diseases at the Ayurvedic hospital, Methods of preparation of drugs</p>											
<p>Teaching /Learning Methods:</p> <p>Lectures, Acute clinical settings, Community settings, OPD clinic and Ward rounds, Multi-disciplinary meetings, e - Learning, Student led Seminars, Reflective practice, Self-directed learning, assignments.</p>											
<p>Assessment Strategy:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Continuous Assessment 20%</td> <td colspan="3" style="text-align: center;">Final Assessment 80%</td> </tr> <tr> <td style="text-align: center;">One Continuous Assessment :20%</td> <td style="text-align: center;">Written 100 %</td> <td style="text-align: center;">Practical 80%</td> <td style="text-align: center;">Viva 20%.</td> </tr> </table>				Continuous Assessment 20%	Final Assessment 80%			One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.
Continuous Assessment 20%	Final Assessment 80%										
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.								
<p>Recommended Readings</p> <ol style="list-style-type: none"> 1. Ettu Maruthu wam. Department of Ayurveda: Colombo; 											

2. Hamarneh, Sami Khalaf. Yunani (Unani), Arabic and Islamic Medicine and Pharmacy: Hamdard Foundation: Pakistan; 1997.
3. Haroon M A. ThirukkuranIyatkai Maruthuvam.6thedition:Abupathippakka:Chennai ;2009.
4. Higuchi, Machiko. Traditional Health Practice in Sri Lanka. Amsterdam: Netherlands: VU University; 2002.
5. John C A. Outline of Fracture. 8th ed: Churchill Livingstone New York;1983.
6. Kathiresan A. Noiyinri Vaazhka.1st ed: Pavai publication: Chennai:2004.
7. Tibbunnabavi-IbnulQayyim (English)
8. WHO Traditional Medicine Strategy 2002 – 2005: Geneva: WHO;2002. Abeysekera S. A. Chandra. TraditionalMedicine in Sri Lanka and Neighboring Countries. 2nd ed. Mathtegoda; 2007.

23.7 Unit of Amraz e Niswan, QabalatwaAtfal(Unit of Gynecology, Obstetrics and Paediatrics)

1. IlmuAtfal
2. Amraz e NiswanWaQabalat (Unani Gynecology &Obstretics)

IlmulAtfal:

Programme content:

Semester	9		
Course Code:	NQ5101		
Course Name:	IlmulAtfal		
Credit Value:	03		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
1. Identify common pediatrics problems and compare and contrast the pathological changes based on Unani and modern medical systems			

2. Record the detail history and recommend relevant investigations to arrive at diagnosis in order to design principles of treatment modalities
3. Guide the care givers to promote and maintain health during childhood

Amraz e Naumooladat

Introduction to the subject and classification of age, Art of history taking, *NaumooladatkiNaghidasht* (Features of healthy newborn), Neonatal care, examination and care of infant, high risk infant , Breast feeding, Breast milk, Wet nurse and Milk substitute, Weaning (*Fithham*) *Ma'alim* (Normal growth and development)*Irqan e Naushateen, Asphyxia Neonatarum, OphtalmicNeonatarum, KhilqiAmraz* (Congenital abnormalities)

IlmulAtfal

Naqz e Taqziya.*Amraz e KulliyavoTanasuliya*(Diseases related to genito- urinary tract); *Ilthihab e GurdaWaMasana, Ilthihab e MajariulBoal,Amraz e MedaWa Ama* (Diseases of gastro intestinal tract) ; *Ishal e Atfal, Kirm e Shikam,Qai e Atfal,Qabz, Warm e Jigar, Zof e Ishthiha, Amraz e Tanaffus* (Diseases of upper and lower respiratory tract); *Zatur Riya, Zeequnnafs, Kansi e Atfal, NazlaWaZukam, Ilthihab e Lawzatain*

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes (OPDand Ward),acute clinical settings, community settings role play,student presentations, assignments and projects, small group learning activities, and health awareness Programmes.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment :20%	Written 100%	Practical 80%	Viva 20%.

Recommended Readings

1. Ibn Sina. Al Qanoon Fit Tib. (Urdu trans.by Kantoori GH). Vol. III. New Delhi: Idara kitab-us- Shifa
2. Razi ABZ. Al Hawi Fil Tib. (Arabic). Lebanon: DAR al- KOTOB al-ILMIYAH; 2000.
3. Razi ABZ. Al Hawi Fil Tib. (Urdu). New Delhi: CCRUM; 2001

Semester	10		
Course Code:	NQ5201		
Course Name:	IlmulAtfal		
Credit Value:	03		
Core/Optional	Core		
	Theory hours	Practical hours	Hours of independent Learning

Hourly Breakdown	30	30	90
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ol style="list-style-type: none"> 1. Apply the basic knowledge of growth and development (physical, physiologic and psychosocial) 2. Develop communication skills & problem-solving skills to facilitate the clinical interaction with children 3. Identify common pediatrics problems and manage with appropriate Unani treatment modality. Refer when necessary. 4. Create strategies for health promotion and professional behaviours appropriate for clinical practice. 			
<p>IlmulAtfal Amraz e Aasab Wa Dimagh (Diseases of Nervous System) : Ma ur Ra's, Falij e Dimagh, Falij e Atfal, Ummus sibiyan, Sara' e Atfal, Dard e Sar, Tanaqqusul Leham, Warm e Ghisha e Dimaghi, Zof e Dimagh, Amraz e Jild (Skin diseases) : Jarb, Aabla, Qooba, Garam dana, Nar e Farsi, Amraz e Vobayee (Epidemic diseases): Khasra, Chaichak, Khunnaq, Kanphad, Kali Kanshi, Amraz e Ain Wa Uzun (Diseases of eye and ear): Kan Ka mai, Warm e UzunBarid, Ramaad Preventive measures in Paediatrics</p> <p>IlmulAtfal Importance of child health, Perinatal / Neonatal / Infant mortality in Sri Lanka, New born, Examination of new born, Care of new born, Pre- term and small for date babies & their complications, Birth asphyxia and neonatal resuscitation, Neonatal jaundice and its complication. Gastro Intestinal Tract: Acute gastro enteritis, Worm infestation, Chronic diarrhea, Respiratorysystem: Upper and lower respiratory tract infections (viral/ bacterial), Childhood tuberculosis Bronchial asthma Haematological disorders: Anaemia in childhood, Nutritional and Iron deficiency anaemia, Thalaseamia Cardio vascular Diseases: Congenital heart diseases, Heart failure in infancy and Childhood Rheumatic fever, Developmental Problems:down's syndrome, Cerebral palsy, Congenital Hypothyroidism Identification of Pediatric Emergencies: Febrile convulsion, Epilepsy, Management of Fever Diseases of the Urinary Tract : Urinary tract infection Nephritis, Nephrotic syndrome</p>			
<p>Teaching /Learning Methods:</p>			

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), acute clinical settings, community settings role play, student presentations, assignments and projects, small group learning activities, and health awareness Programmes.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Ibn Sina. Al Qanoon Fit Tib. (Urdu trans.by Kantoori GH). Vol. III. New Delhi: Idara kitab-us- Shifa
2. Razi ABZ. Al Hawi Fil Tib. (Arabic). Lebanon: DAR al- KOTOB al-ILMIYAH; 2000.
3. Razi ABZ. Al Hawi Fil Tib. (Urdu). New Delhi: CCRUM; 2001.
4. Lissauer T, Clayden G. Illustrated Textbook of Paediatrics.4th ed. Edinburgh: Elsevier; 2012

Amraz e Niswan wa Qabalat (Unani Gynecology & Obstetrics)

Semester	9		
Course Code:	NQ5102		
Course Name:	Amraz e Niswan Va Qabalat (Unani Gynecology& Obstetrics)		
Credit Value:	7		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	60	90	200

Course Aims/Intended Learning Outcomes:

At the completion of this course student will be able to

- Evaluate the gynecological patient including history taking, physical examination, investigation and diagnosis
- Perform common gynecological procedures competently
- Manage gynecological problems with appropriate Unani treatment modalities and to refer when necessary

Course Content: (Main topics, Sub topics)

Amraz e Niswan wa Qabalat

Tashreeh e Tatbeeqi e A'za e Thanasuliya Wa Afal e A'za e Zanana (Applied aspect of anatomy and physiology of female genital organs), History taking and examination related to gynaecology, *Khilqi Amraz* (Congenital Disorders)

Amraz e NiswanwaQabalat

Futurat e Haiz (Menstrual Disorders), *Amraz e Farj* (Diseases of Vulwa), *Amraz e Mehbal* (Diseases of Wagina), *Amraz e Unuqur Rehm* (Diseases of Cervix), *Amraz e Rehm* (Diseases of Uterus), *Amraz e Qazif* (Diseases of Fallopion tube). *Amraz e Khussiyatur Rehm* (Diseases of Ovary), *Ikhtinaqur Rehm Wa Ta'alluk Amraz* (Hysteria and related diseases)

Amraz e NiswanwaQabalat

Uqr (Sub fertility), *Amraz e Sadiyan* (Diseases of Breast) Importance of family health and contraceptive practices, *Sin e Ya's* (Menopause) *Sartan e Az'a e Tanasuliya e Zannana* (Genital Tract Malignancy), *Marz Akyas Tehrizi Hauzi* (Pelvic Inflammatory Disease), *Atishak and Sozak* (Syphillis and Gonorrhoea), Paediatrics gynaecological problems

Teaching /Learning Methods:

Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward), role play, student presentations, assignments and projects, small group learning activities, and health awareness Programmes.

Assessment Strategy:

Continuous Assessment: 20 %	Final Assessment: 80 %		
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Ibn Sina, Al Qanoon Fit Tib. Vol III
2. Razi ABZ. Al Hawi Fil Tib. Vol IX. New Delhi: CCRUM; 2001.
3. Jurjani I. Zakheerae Khawar zam Shahi (Urdu trans. by Khan AH). Vol II. New Delhi: Idara Kitab-us-shifa; 2010.
4. Dutta D. C. Text Book of Gynaecology. 5thed. India: New Central Books; 2008

Semester	10		
Course Code:	NQ5202		
Course Name:	Amraz e Niswan Va Qabalat (Unani Gynecology & Obstetrics)		
Credit Value:	06		
Core/Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning

	60	60	180
<p>Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to</p> <ul style="list-style-type: none"> • Record detailed obstetrical history and perform relevant physical examination • Handle normal labor and identify major deviation and refer cases to the relevant • Institutions if required. • Manage common obstetrical problems through Unani methods and techniques 			
<p>Course Content: (Main topics, Sub topics) Amraze Niswanwa Qabalat <i>Tashreeh Wa Manafi e A'zae Tanasuliyah Zanana</i> (Anatomy and physiology of pregnancy), <i>Kaifiyat e Istiqrar e Hamal</i> (Embryology), <i>Hamalki Tashkhees Wa Tafreeqi Tashkhees</i> (Diagnosis of pregnancy and Differential Diagnosis), <i>Hamilaki Naghidashat</i> (Antenatal care), <i>Amraz e Hawamil</i> (Disorders in pregnancy), <i>Tabayee Waza' e Hamal</i> (Normal labour), <i>Ghair Tabayee Wa'za e Hamal</i> (Abnormal labour), <i>Zaman e Nifas Wa Awarizat</i> (Puerperium and complications), <i>Naw Janeen</i> (Foetus) management</p> <p>Amraze Niswanwa Qabalat</p> <p>Anatomy and Physiology of female reproductive system. Normal menstrual cycle, ovulation, placenta and umbilical cord, Reproductive embryology, Gametogenesis, fertilization and development of fetus, Antenatal care and identification of risk pregnancy, Diseases of pregnant mother, Abortion, ectopic pregnancy, antepartum haemorrhage, pre eclamptic toxemia, pregnancy induced hypertension, diabetic mellitus, Rh incompatibility, infections in pregnancy, heart diseases, mal presentation. Normal labor Physiology, stages, mechanism and management, Abnormal progress of labor Fetal disorders – Distress, intra uterine growth retardation, intra uterine death, Normal and abnormal puerperium, Current knowledge on instruments and investigation used in obstetrics Contraceptive methods, Gynaecological malignancies, Sexually transmitted diseases, Abortion Subfertility (Male /Female), Current knowledge on instruments and investigation used in gynaecological practice</p>			
<p>Teaching /Learning Methods: Interactive lectures, team-based learning, and other small group activities, practical classes (OPD and Ward and ANC clinic visit to periphery), role play, student presentations, assignments and projects, small group learning activities, and health awareness Programmes.</p>			
<p>Assessment Strategy:</p>			
Continuous Assessment: 20 %		Final Assessment: 80 %	
One Continuous Assessment: 20 %	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Ibn Sina, Al Qanoon Fit Tib. Vol III
2. Razi ABZ. Al Hawi Fil Tib. Vol IX. New Delhi: CCRUM; 2001.
3. Jurjani I. ZakheeraeKhawarzaam Shahi (Urdu trans. by Khan AH). Vol II. New Delhi: Idara Kitab-us-shifa; 2010.
4. Dutta D. C. Text Book of Obstetrics.5th ed. India: New Central Books;2008

23.8 Unit of IlmuJarahat (unit of Surgery/Unani)

1. IlmuJarahat (Unani Surgery)
2. Amraz-e-Ain, Anf, Uzn, wa Halq
(ENT, Ophthalmology and Orthodontology)

IlmuJarahat (Unani Surgery)

Jarahat I

Semester	9		
Course Code:	IJ5101		
Course Name:	IlmuJarahat		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	45	30	125
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
1. Diagnose and manage common surgical conditions according to Unani concept as well as modern science.			
2. Identify the surgical conditions for referral.			
3. Diagnose and perform operative procedures in minor surgical conditions.			
Course Content: (Main topics, Sub topics)			
Introduction, definitions and basic principles of IlmuJarahat			
Introduction, the origin, development and the present condition of Unani surgery and teachers of <i>IlmuJarahat</i> , text, documents, commentary, Humoral pathology in surgical conditions, Three stages of			

surgery: Pre operative, operative, and post operative management of patients, *Ilthihab/Warm* (inflammation)- *Mahaiyat, Asbab, Aqsam, Awarizat, Ilaj, Alamat voNishaniyat&Inthizam* (pathology, causes, classification, complications, treatment, clinical features and management) *Alamat voNishaniyat&Inthizam* (pathology, causes, classification, complications, treatment, clinical features and management), Surgical conditions due to “*Garam Warm*”, “*Barid Warm*”, *Warm-e- Mae, Warm-e-Reehi* and their management, *Jarahat* (Wound) and its management, *Qurooh* (Ulcer) and its management, *Nasoor/ Majri* (Fistula/sinus) and its Management, *Jiryand-Dam* (Hemorrhage) and its management, *Sadma* (Shock) and its management, *Kharaq-ul-NaarvoSalaq* (Burns and scalds) and its management, *Umoomi Bayan, Aqsam, Alamat voNishaniyat, Awarizat&Inthizam of Kasoor, Khala*

voMoonch general description, types, symptoms and signs, complication and management of fracture, dislocation and sprain

IlmulJarahat- Modern

Development of modern surgery, latest surgical invention and techniques and their advantage and disadvantage, acute traumatic wounds, ulcers, head injuries and shock (Examination and management), Examination and management of a sinus and fistula (External fistule, internal fistule, tuberculoses, sinus etc.), Examination and management of peripheral vascular disease and Raynaud’s disease, Gas gangrene, Diabetic, dry gangrene, senile gangrene, Burger’s diseases, infective gangrene, Examination and management of varicose veins (Venous thrombosis, hemorrhage, deep vein thrombosis, thrombophlebitis), Examination and management of disease related to lymphatic system (Lymphadenitis, Hodgkin’ diseases, syphilis, lymph sarcoma, Tuberculosis, lymphoedema, Elephantiasis, Sarcoma, Carcinoma, Lymphoma, Leukemia.), Disease of muscles, tendons and fascia (Tendinitis, traumatic Tendon disease, ganglion, Carpal tunnel syndrome, tennis, Elbow, Fibrocystic), Examination and management of disease related to bone and joints. (Traumatic bone and joints lesions, osteomyelitis, developmental disorders, nutritional metabolic and endocrinal disorders, Adhesion, Osteoporosis), Examination and management of head injuries Hemorrhage, Unconsciousness, Cerebral, contusion, Cerebral concussion Cerebral compression Injury to base of the skin brain, blood vessels and complication, Examination and management of disease related to hand and foot (Infections localized infections spreading infections, congenital and acquired deformities swelling and ulcers)

Teaching /Learning Methods:

Student-centered learning, Teaching /Learning Methods, Self-directed learning, video presentations, PBLs

Group learning- Class room discussions; PBLs, seminars; group tutorials; games and simulations; group projects; etc.

Assessment Strategy:			
Continuous Assessment 20%		Final Assessment 80%	
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.
Recommended Readings			
<ol style="list-style-type: none"> 1. Abul CassimZahravi. Al-Tashreef. Vol 30. Oxford:john Channing; 1778. 2. Masihi AAFIA. KitabalUmda Fil Jarahat. Vol I. New Delhi:CCRUM; 1986. 3. Razi ABZ. Kitab Al Mansoori. New Delhi: CCRUM; 1991. 4. Forrest APM, DC Carter, I.B.Macled. Principles & Practice of Surgery,3rd ed, Edinburgh: Churchill Livingstone;1998 5. Alfred C. Clinical Surgery. Oxford: BlackwellScience;1996. 			

Semester	10		
Course Code:	IJ5201		
Course Name:	IlmulJarahat		
Credit Value:	4		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	60	110
Course Aims/Intended Learning Outcomes: At the completion of this course student will be able to			
<ol style="list-style-type: none"> 1. Diagnose and manage common surgical conditions according to Unani concept as well as modern science. 2. Identify the surgical conditions for referral. 3. Diagnose and perform operative procedures in minor surgical conditions. 			
Course Content: (Main topics, Sub topics) IlmulJarahat (Unani Surgery) Fataq(Hernia) and its management, Amal-e-Kai (cauterization) in surgical condition, Hajamat(Cupping) in surgical condition, Fasd(Venesection) in surgical conditions, Jonk(Leech application) in surgical			

conditions, Bawaseer and its Management, Inshiqaulmiq'ad its Management, Anorectal abscess & other peri-anal conditions,

Nasoor& its management, Khuroojulmiq'ad its Management, Sang-e-Gurda Vo Masana, AzmGuda-e-Mazi,Bol-ud- Dam, Qeelmaee, Khatna, Qurookh-e-Medavo Ama, Warm-e-Zaida, Sudda-e-Ama, PodavoSartan-e-Kabid, HassathulMirrara, Warm-e-Mirara, Amraz-e-Urookh, Amraz-e-Ghudoodi.

IlmulJarahat- Modern

Examination and management of diseases related too chest, (Solid swelling, Traumatic conditions,swelling, Sinus, Empyema, Carcinoma, Embolism), Examination and management of disease related to breast (Traumatic conditions, Mastitis, abscess, Cysts, Tumors, Gynaecomastia), Examination and management of diseases related to abdomen (Acute abdomen injuries to abdomen acute appendicitis, Intestinal obstruction, cholecystitis, Pancreatitis, Divertaculities, Salphingitis Colitis, Abscess Exploration hemorrhage and torsion Colic's, ulcers, carcinomas and other chronic abdominal condition, Examination and management of diseases related to anal canal and rectum. (Hemorrhoids, Fissure in ano, Abscess, Fistula in ano, sinuses, Prolaps, Structures, Carcinomas, Incontinence, Examination and management of diseases related to urinary case (Calculi, Polycystic kidney, Renal cysts, Hydronephosis, Tuberculosis Renal tumors, Diseases, related to prostate.), Examination and management of diseases related to swelling in the Inguinal scrotal or grain region (Hernia, Hydrocele, varicocele Funiculitis, Cysts and Tumors, congenital Abnormalities, Torsion Inflammatory and infective condition Haemotocele), Examination and management of disease related to male External genitalia (Sebaceous cysts, Elephantiasis, Phimosis, Syphilitic conditions, Chancroid, premalignent conditions tumors), Radiological examinations, Utilization of X-ray Scan etc. in diagnosis.

Practical Training: practical classes (OPD and IPD)

Teaching /Learning Methods:

Student-centered learning, Teaching /Learning Methods, Self-directed learning, video presentations, PBLs

Group learning- Class room discussions; PBLs, seminars; group tutorials; games and simulations; group projects; etc.

Assessment Strategy:

Continuous Assessment 20%	Final Assessment 80%		
One Continuous Assessment :20%	Written 100 %	Practical 80%	Viva 20%.

Recommended Readings

1. Abul CassimZahravi. Al-Tashreef. Vol 30. Oxford:john Channing; 1778.

2. Masihi AAFIA. KitabalUmda Fil Jarahat. Vol I. New Delhi:CCRUM; 1986.
3. Razi ABZ. Kitab Al Mansoori. New Delhi: CCRUM; 1991.
4. Forrest APM, DC Carter, I.B.Macled. Principles & Practice of Surgery,3rd ed, Edinburgh: Churchill Livingstone;1998
5. Alfred C. Clinical Surgery. Oxford: BlackwellScience;1996.

Amraz-e-Ain, Anf, Uzn, wa Halq

(ENT, Ophthalmology and Orthodontology)

Semester	9		
Course Code:	IJ5102		
Course Name:	Amraaz-e-Ain, Anf, Uzn, wa Halq -I		
Credit Value:	03		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90

Course Aims/Intended Learning Outcomes:

1. Produce competent Unani graduates with the capabilities of diagnosis and management of disease related to Eye, Ear, Nose, and Throat & Oral cavity.
2. Impart modern scientific methods and materials related diseases of Eye, ENT & Oral cavity.
3. Manage ENT, Eye & Oral problems at the first level of case and be able to refer whenever necessary.

Course Content: (Main topics, Sub topics)

Amras e Ain

Introduction to the subject, Ain ka ThashreehvoAfal – Anatomy of eye, clinical examination of the Ain (Eye), Minor injuries of the eye, Amraz-e-Ajfan, Amraz-e- Multhahima, Amraz-e-Qarnia, Amraz-e-Anbia, Amraz-e-sulbiya, Amraz-e-Ruthubat-e-Jalidiya, Amraz-e-Ruthubat-e-Baiziya, Amraz-e-Basarat, Amraz-e-Shabkiya,

Amraz-e-Uzn (Ear Disease), Amraz-e-Anf -Disease of the Nose

Tashreeh-Vo-Afal-e-Uzn (Anatomy & Physiology of Ear), Voja ul-Uzn, Warm-e-Gosh, Sailan-e-Uzn, Behrapen, Saqlsama't, Sailan-e-peep, Taneen, Jsmghareeb, Kanpeid

Amraz-e-Anf (Disease of the Nose)

Thashreeh-vo-Afal-e-Anf (Anatomy & Physiology of Nose), *Fasad-e-sham*, *Nakseer*, *Khasham*, *BuzurulAnf*, *Ilthihib-e-Thajaveef-ul-Anf*, *Jism ghareeb* in nose

Teaching /Learning Methods:

Self directed learning

video presentations

PBLs

Group learning- Class room discussions; PBLs, seminars; group tutorials; games and simulations; group projects.

Assessment Strategy:

Continuous Assessment 20%

Final Assessment 80%

One Continuous Assessment 20%

Written 100%,

Practical 80%,

Viva20%.

Recommended Readings

1. Razi, AMBZ, Kitabal Mansuri (Urdu translation), CCRUM, New Delhi, 1991.
2. Razi ABZ. Al Hawi Fil Tib. Vol. II & III, New Delhi: CCRUM
3. Masih AAFIA. KitabalUmda Fil Jarahat. Vol I. New Delhi: CCRUM; 1986.
4. Ibn Sina, Al Qanoon fil Tib. Vol II
5. Simson H I. Diseases of the Nose, Throat and Ear 16th ed. Edinburgh: Churchill;1981
6. Bull P D. Lecture notes on Diseases of the Ear, Nose and Throat. 7thed.Oxford: Blackwell;1991
7. Stephen J.H. M. Parsons' Diseases of the Eye. Edinburgh: Churchill Livingstone;1984
8. Nema HV, Nema NITIN. Text book of ophthalmology, 6th ed, Jaypee publication

Semester	10		
Course Code:	IJ5202		
Course Name:	Amraaz-e-Ain, Anf, Uzn, va Halq -II		
Credit Value:	03		
Core /Optional	Core		
Hourly Breakdown	Theory hours	Practical hours	Hours of independent Learning
	30	30	90
Course Aims/Intended Learning Outcomes:			

1. Produce competent Unani graduates with the capabilities of diagnosis and management of disease related to Eye, Ear, Nose, and Throat & Oral cavity.
2. Impart modern scientific methods and materials related diseases of Eye, ENT & Oral cavity.
3. Manage ENT, Eye & Oral problems at the first level of case and be able to refer whenever necessary

Course Content: (Main topics, Sub topics)

Amraz-e-Halq -Disease of the Throat

Suquthulahat, Khunnaq, Warm e Halq, Inthibaq e mari, Bahaut e saut, Warm e Mari, Sarthan

Amraz-e-Jawf-e-Fam (Disease of the Oral Cavity)

Amraze Lisan, Warm e lisan, Fasad e zawk, Qila e lisan, Shiqaqullisan, Hikkathul lisan,

Luabkikasarat, Luknat, Azmullisan, Amraz e Isnan, VojeulIsnan, TaharrukullIsnan

Amraz-e-Ain, Anf, Uzn, vo Halq(ENT, Ophthalmology and Orthodontology-Modern

Eye diseases - Refractive Errors, Accommodation Anomalies, Conjunctivitis, Pterygium, Glaucoma, Strabismus (Squint), Corneal Ulcer, Corneal Opacities, Episcleritis, Scleritis. Staphyloma, Iridocyclitis, Pan Ophthalmitis, Cataract, Wascular Retinopathies. Retinal Detachment, Optic Neuritis, Papilloedema, Common Intra Ocular Tumours-Blepharitis, Hordeolum Externum, Chalazion, Trichiasis, Entropion, Ectropion, Ptosis.

Ear diseases

Acute & Chronic Suppurative Otitis Media. Secretory Otitis Media. Otitis Externa, Furuncle, Otomycosis, Otalgia, Tinnitus, Otosclerosis, Meniere's Disease, Deafness, Labyrinthitis Common Benign & Malignant Tumours of the Ear

Diseases of Nose

Diseases of External nose & Nasal Vestibule, Nasal Deformities, Congenital & Malignant Tumours. Furuncle / Boil, Stenosis & Atresia of the Nares, Nasal septum & its diseases, Deviated Nasal Septum, Acute & Chronic Rhinitis, Hypertrophic Rhinitis. Atrophic Rhinitis, Rhinitis Sicca, Allergic Rhinitis, vasomotor & other forms of Non-Allergic Rhinitis

Nasal polyps, Epistaxis, Common Neoplasms of Nasal Cavity, Acute and Chronic Sinusitis, Oro-Antral Fistula

Diseases of Throat

Pharyngitis, Adenoids, Tonsillitis, Abscesses in relation to Pharynx

Diseases of Oral Cavity

Periodontal Diseases, Gingivitis & Periodontitis, Pericoronitis

Odontogenic & Non – Odontogenic Tumours			
Oral Cavity Carcinomas Common Types, Pre- Malignant conditions, Dental Caries, Dental Hard Tissue Disorders, Glossitis, Oral mucosal Lesions Stomatitis			
Practical Training: practical classes (OPD)			
Teaching /Learning Methods: Self directed learning videopresentations PBLs Group learning- Class room discussions; PBLs, seminars; group tutorials; games and simulations; group projects.			
Assessment Strategy:			
Continuous Assessment 20%		Final Assessment 80%	
One Continuous Assessment 20%	Written-100%,	Practical – 80%,	Viva-20%
Recommended Readings			
1. Razi, AMBZ, Kitabal Mansuri (Urdu translation), CCRUM, New Delhi, 1991.			
2. Razi ABZ. Al Hawi Fil Tib. Vol. II & III, New Delhi: CCRUM			
3. Masih AAFIA. KitabalUmda Fil Jarahat. Vol I. New Delhi: CCRUM; 1986.			
4. Ibn Sina, Al Qanoon fil Tib. Vol II			
5. Simson H I. Diseases of the Nose, Throat and Ear 16 th ed. Edinburgh: Churchill;1981			
6. Bull P D. Lecture notes on Diseases of the Ear, Nose and Throat. 7 th ed.Oxford: Blackwell;1991			
7. Stephen J.H. M. Parsons' Diseases of the Eye. Edinburgh: Churchill Livingstone;1984			
8. Nema HV, Nema NITIN. Text book of ophthalmology, 6 th ed, Jaypee publication			