

KING EDWARD MEDICAL UNIVERSITY LAHORE



BSc. Hons Allied Health Sciences REGULATIONS (2017)

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KING EDWARD MEDICAL UNIVERSITY LAHORE

No. _____/2017 dated _____

1. Notification

In exercise of the power conferred by Section 31 of the King Edward Medical University Act 2005, the Vice Chancellor, King Edward Medical University, Lahore on approval by the syndicate of King Edward Medical University in its - meeting held on 00.00.2017 is pleased to notify the following amended Regulations in suppression of all the previous regulations, namely

“THE KING EDWARD MEDICAL UNIVERSITY BSc. Hons Allied Health Sciences REGULATIONS 2017”

2. Short title, commencement and application:

- a. These regulations may be called the KEMU BSc. Hons Allied Health Sciences REGULATIONS 2017.
- b. They shall come into force at once and shall apply to all students/ candidates who intend to do BSc. Hons Allied Health Sciences from King Edward Medical University (KEMU), Lahore.
- c. These regulations shall not be implemented retrospectively.

3. Definition:

In these regulations, unless the context otherwise requires, the following expression shall have the meaning hereby respectively assigned to them that is to say:

- a. **Act** means King Edward Medical University Act, 2005.
- b. **Applicant** means a person who applies for admission into BSc. Hons Allied Health Sciences program.
- c. **Assessment** means a formally defined process within the curriculum in which the candidates' progress in the training program is assessed and measured using a range of defined and validated assessment tools.

- d. **Candidate** means a person who will be selected for training in BSc. Hons Allied Health Sciences program.
- e. **Course Coordinator** means a designated person from clinical sciences department who would co-ordinate between different program directors, course coordinators, lecturers and Dean AHS for smooth functioning of the program.
- f. **Curriculum** means the set of courses and its content.
- g. **Examiner** means examiner of clinical and oral examinations of BSc. Hons Allied Health Sciences program.
- h. **External Examiner** mean the examiner who is not teaching (or has not taught during the academic year) students of BSc. Hons Allied Health Sciences program of the KEMU.
- i. **Core Competencies** means the qualities or states of being functionally adequate or having sufficient knowledge, judgment, skills or strengths which are applicable to a whole class or group.
- j. **Government** means Government of the Punjab.
- k. **Internal Examiner** means the examiner who is teaching (or has taught for at least six months within two years of commencement of the concerned examination) students of BSc. Hons Allied Health Sciences program of KEMU.
- l. **BSc. Hons Allied Health Sciences** means Bachelor of Sciences in Allied Health Sciences.
- m. **Lecturer:** An assigned faculty member who is responsible to ensure best academic service delivery to students in co-ordination with Programme Faculty Committee.
- n. **Paper Setter** means paper setter for written papers of BSC Allied Health Sciences examinations.
- o. **Problem Based Learning (PBL)** means the process of learning to use scientific evidence related to patient's health problems and the ability to interpret medical literature.
- p. **Program** means each and every component of teaching and training for King Edward Medical University's degree of BSc. Hons Allied Health Sciences.
- q. **Program Director** means an individual responsible for the conduct of specific program in the BSc Allied Health Sciences of KEMU. Program director will be the head of the concerned academic department and will be responsible for developing

curriculum, syllabus, table of specifications, internal assessments and coordinates with Dean Allied Health Sciences.

- r. **Program Format** means the whole plan of training and assessment for BSc. Hons Allied Health Sciences degree and this shall be referred to as Program Format.
- s. **Specialty Specific Competency** means the qualities or states of being functionally adequate or having sufficient knowledge, judgment, skills or strengths which are applicable to the relevant specialty of training.
- t. **University** means the King Edward Medical University.
 - u. **Dissertation** means dissertation for BSC Hons Allied Health Sciences.

PART – A

1. The vision of BSc. Hons Allied Health Sciences will be:

The graduates of KEMU BSc Hons program will be able to critically analyze events, information and ideas. They will be lifelong learners equipped with skills to pursue their chosen careers successfully.

2. The Mission Statement for BSc. Hons Allied Health Sciences will be:

To work towards achieving the vision enunciated through collective effort of faculty, administration and students of the BSc Hons program by creating an educational environment characterized by academic excellence.

3. The Goal of the program is:

To provide properly educated and well trained Allied health professionals to the Health care system to improve the Health delivery to the people of Pakistan.

4. The objectives of the programme will be

- a. To provide training in cognitive, psychomotor and affective domains.
- b. To train in chosen field through a competency based training system.
- c. To develop skills in their chosen field and its application to clinical environment.
- d. To enable trainees to use modern techniques and technologies effectively.

5. Qualification Equivalence:

All BSc (Hons) in Allied Health Sciences programs will be equal to Education Level-6 of Higher Education Commission of Pakistan.

6. Nomenclature of qualification:

BSc Hons Allied Health Sciences. Details of each specialty is given in appendix A

7. Responsibilities Of BSc Hons Graduates:

They have the responsibilities to assist Specialist of their field. They shall not be allowed to practice clinical medicine or prescribe treatment, independently. University does not

hold any responsibility of finding placement, training slot or job after completion of the programme.

8. Programme administration:

- a. The Board of Studies of Allied Health Sciences will also act as Program coordination Committee. The BOS AHS will notify “List of Program Faculty Committees” under chairmanship of Program Director for each BSC (Hons) program for a period of four (4) years and is responsible to develop, manage and monitor the curriculum of their respective program and have following composition.

- | | | |
|------|--|----------|
| I. | Program director | Chairman |
| II. | Upto 02 full time faculty members including
Programme Co-Ordinator & Lecturer | Members |
| III. | Upto 01 part time visiting faculty members | Members |
| IV. | Student of the program may be the co-opted as a member, as and when needed | |

- b. Board of Studies (BOS) of Allied Health Sciences shall develop, review and manage the:

- I. Framework (Rules and Regulation of all AHS Programs)
- II. Admission
- III. Examination of AHS programs
- IV. Administrative and disciplinary affairs
- V. Responsibilities of the teachers
- VI. Co-ordinating and supervising teaching.
- VII. The requirement / learning resources of the program
- VIII. Research activities.
- IX. Quality assurance procedure
- X. Any other policy issue

9. Responsibilities of lecturer:

- a. Development of course outline/curriculum.
- b. Outline teaching roster and its implementation.
- c. Planning and assisting in course and university assessments.
- d. Maintain record of students.

e. Communication with dean AHS, exam branch and registrar office.

10. Academic Calendar:

S No	Dates	Events
01	1 st October	Advertisement in media
02	15 th November	First Merit list
03	25 th November	2 nd merit list
04	5 th December	3 rd merit list
05	20 th December	Final date of fee submission
06	25 th December	Final selection list
07	2 nd January	Start of Classes
08	30 th October	End of Classes
09	1 st December	Professional Examination
10	2 nd January	Start of Classes

PART – B

1. Admission criteria:

- a. **Eligibility:** The applicant on the last date of submission of applications for admission must possess the:
 - I. Matriculation or equivalent securing a minimum of 60% marks.
 - II. F.Sc. (Pre-medical) or equivalent securing a minimum of 60 % marks.
 - III. Age less than 20 years at the time of submission of application.
 - IV. The candidate must have scored at least 60% marks in the latest MCAT exam.
- b. **Application Process:** Applications for admission in BSc. Hons Allied Health Sciences Program of King Edward Medical University will be invited once a year, through advertisement in print and electronic media mentioning closing date of applications and date of Entry Examination along with admission criteria on an application format as available at Appendix B along with fee. The final admission will be subject to a joint medical and psychological test for fitness of the candidates. This test will be carried out after first merit list has been displayed.
- c. The merit shall be calculated as follows:
$$(\% \text{age of matric} \times 0.1) + (\% \text{age of F.Sc} \times 0.45) + (\% \text{age of MCAT/SAT} \times 0.45) = \text{Total}$$

2. Admission Process:

- a. All seats will be filled by open merit.
- b. Total of 10% seats will be allocated for foreign students. These will be fully paid seats. Fee will be determined by the university.
- c. The candidate will be allocated a specific program in Allied Health Sciences according to the merit and available slots.
- d. The candidate will not be allowed to change the programme after admission.
- e. The candidates selected as per admission criteria, will be notified and offered admission in to BSc. Hons Allied Health Sciences Program.
- f. The acceptance of offer of admission by the candidate and joining report proforma signed by the programme director is to be submitted to the Registrar within 07 days

after which admission will automatically stand invalid. The vacant seat will be filled in by the next available candidate on merit.

- g. The Student will submit the fee (non-refundable) for the following components at the time of admission. The exact quantum of fee may be decided and adjusted from time to time by the university.
 - I. Registration Fee.
 - II. Yearly tuition fee to be deposited according to a schedule (SOP's to be developed by the academic council in consultation with Director Finance from time to time).
 - III. Hostel fee if university accommodation is availed
 - IV. Utility Charges (Electricity, Gas and Water) if hostel accommodation is availed.
- h. After a default of more than 30 days duration for the payment of any of the dues, the candidate will be expelled from the program except in special circumstances where it will be endorsed by the Deans Committee.
- i. In case of any grievances, appeal can be filed within 15 days before the Vice Chancellor whose decision shall be final.

3. Programme Seats:

- a. The number of seats for each BSc Hons Allied Health Sciences training program will be allocated according to the number of available training slots, trainers / program directors and the availability of relevant equipment as well as infrastructure and others within the training units of this institution. These parameters will be subject to annual audit and review by the University.
- b. The seats available for each program will be decided by the university.
- c. The seats in any specific program within BSc Hons. Allied Health Sciences will be dependent upon the available human resource, infrastructure, curriculum, track record of the program and other parameters as decided by the university. The ultimate decision for allocation of seats / continuation in BSc. Hons Allied Health Sciences in a particular program will depend on financial feasibility to be provided by the Treasurer in the month of September on yearly basis.
- d. The failure of a program as result of poor track record will be referred to the appropriate forum for remediation / discontinuation of the program.

- e. The Registrar Allied Health Sciences shall maintain a record of registration of all candidates and availability of programme seats.

4. Merit based scholarships:

- a. University will award merit based scholarships to the candidates who have secured more than 95% marks in all subjects of the professional examination.

PART - C

1. The Program Scheme :

- a. BSc (hons) Allied Health Sciences will be an annual type programme. This will be a four year programme. Different courses will be covered in each year and will be assessed at the end of each year in annual, professional exam.
- b. Minimum period for this degree will be 4 years and maximum period will be 7 years.
- c. First year Course will be common to all specialties.

Year	Credit Hours	Duration	Theory	Practical	Evaluation
Year 1	31-34	36 weeks	80%	20%	1 st Professional Exam
Year 2	31-34	36 weeks	60%	40%	2 nd Professional Exam
Year 3	31-34	36 weeks	40%	60%	3 rd Professional Exam
Year 4	31-34	36 weeks	40%	60%	4 th Professional Exam

2. Credit hours scheme:

- a. This will be 124-136 credit hours programme, extending over the period of 4 years.
- b. Credit hours system will be followed as devised by the Higher Education Commission of Pakistan for BSc Hons Programme.
- c. A credit hour means teaching a theory course for one hour each week throughout the semester.
- d. One credit hour in laboratory or practical work/project would require lab contact of three hours per week throughout the semester.
- e. The credit hours are denoted by two digits within brackets with a hyphen in between. The first digit represents the theory part while the second (right side) digit represents the practical.
- f. Thus 3(3-0) means three credit hours of theory, while 4(3- 1) means a total of four credit hours, of which three are of theory while one credit hour is for laboratory or practical work.

3. Core competencies: Core competencies of BSc Hons Allied Health Sciences will be:

- a. Educational and professional development:

- i. Professional development for self and others.
 - Demonstrate a commitment to lifelong learning and research.
 - Demonstrate critical thinking and writing skills.
 - Uses appropriate resources and reflective practice to enhance knowledge and skills.
 - Integrate best research with clinical expertise and patient values for optimum care.
 - Recognizes own limitations, identifies professional development needs and develops a personal development plan (PDP).
 - Demonstrates personal accountability for ensuring own clinical competence.
 - Keeps a professional portfolio of learning and experience gained.
 - Participates in development of other colleagues within the structure provided.
 - Utilizes information technology to communicate, manage knowledge, mitigate errors and support decision making.
- ii. Educational opportunities for self and others:
 - Contributes to formal and informal education sessions.
 - Contributes to peri-operative teaching programs by promoting effective practice.
 - Supports and assesses learners.
 - Offers supervision to others as appropriate.
 - Creates an environment in the workplace conducive to learning.
- b. Organizational, management and leadership skills:
 - i. Effective organizational and management skills use in the provision of patient care
 - Identifies priorities of care based on clinical judgement of patients' health and information received.
 - Discuss priorities with relevant multidisciplinary team members.
 - Communicates plan of care to all relevant team members.
 - Assigns roles according to ability and skill available.
 - Provides a safe environment for a planned patient care.
 - Ensures duty of care fulfilled to the patient.

- ii. Quality assurance strategies:
 - Understand and implement basic study designs principles, such as standardization and simplification.
 - Design and test interventions to change processes and systems of care, with the objective of improving the quality.
 - Uses knowledge of national and local measures of quality assurance to develop and participate in high quality peer review audit.
 - Analyses results of audit and implements appropriate action as required.
 - Communicates findings of the audit appropriately.
 - Facilitates change when indicated.
- iii. Appropriate resource management to ensure readiness in the delivery of care:
 - Demonstrates a clear understanding of the elements rostering human resources.
 - Allocate staff appropriate to their skills, learning needs and scope of practice.
 - Ensures learners are supervised as required.
- iv. Co-ordination in the supply of material resources ensuring best practice guidelines are adhered to in the management of same while recognizing the scope of economic constraints
 - Ensures appropriate supplies are available.
 - Ensures sterile supplies/instruments are stored in appropriate conditions.
 - Ensures supplies are rotated appropriately.
 - Shows awareness of cost element of care and is prudent in usage of material supplies.
- v. Effective leadership skills acting as a role model, consistent in delivery of high standards of care, self-motivated and effective interpersonal skills based on understanding and mutual respect.
 - Acts as a role model to their team members in the provision of care.
 - Employs proven motivational strategies to motivate self and others.
 - Recognizes and respects the values of all team members.
 - Affords developmental opportunities for others in a safe manner.
 - Contributes to committees and forums as appropriate.

- Facilitates change management as need arises.
 - Supports managerial initiatives as appropriate.
- c. Professional, legal and ethical practice:
- i. Practice in accordance with legislation and professional guidelines.
 - Demonstrates and applies an accurate and comprehensive understanding of ethical principles within ones scope of practice.
 - Upholds the right of preservation of dignity for both patients and colleagues.
 - Reacts appropriately to concerns in relation to unethical or unsafe practices.
 - Demonstrate ethical and professional understanding and conduct.
 - ii. Professional accountability:
 - Practices within the legislation of professional regulation and policies/guidelines.
 - Ensures the duty of care owed to the patient is complete.
 - Takes personal accountability for ones' decisions and actions /or omissions taken in the course of patient care delivery.
- d. Interpersonal relationships and communication:
- i. Effective communication skills in order to promote clinically effective patient care.
 - Understands and applies the principles of good communication with patients, carers and peri-operative team members.
 - Provides accurate, concise and relevant verbal and written information related to peri-operative patient care.
 - Alerts appropriate members of the multidisciplinary team to changes in patient's condition.
 - Practices the knowledge of record keeping.
 - Demonstrates use of information technology including computers and data management skills
 - ii. Effective, professional relationships with patients, carers and staff in all disciplines.
 - Uses appropriate listening and responding skills to develop relationships with patients, carers and staff.

- Articulates role within peri-operative team demonstrating knowledge of teamwork strategies related to the peri-operative environment.
- iii. Good communication to promote trust and confidence.
 - Educates and informs patients and carers regarding their disease.
 - Complies with local and national policies and protocols regarding record keeping.
 - Engages in reflective practice as an individual and as a team to identify positive outcomes and quality improvements.
 - Manages conflict situations in a timely and effective manner.
 - Keeps comprehensive records in timely, legible and accurate fashion.

e. **Scholar:**

- i. Able to understand applied knowledge of anatomy and physiology relevant to programme:
- ii. Able to understand applied knowledge of pharmacology relevant to programme:
- iii. Able to understand applied knowledge of pathology and microbiology relevant to programme
- iv. Able to understand medical terminology relevant to programme:
- v. Able to apply advance knowledge relevant to programme.

4. Courses of the curriculum:

- a. Whole curriculum/syllabi will be managed through different 'Course', over a period of four years. Curriculum/syllabi will be developed, managed and maintained by 'Programme Faculty Committee'.
- b. Each 'Course' will be designed as given in Appendix C
- c. Course assessment will be carried out at the end of each Course. Course evaluation will be prepared by Course In charge declared by the 'Programme Faculty Committee', acting as Head Examiner.
- d. Programme Faculty Committee will ensure that course in-charge, teaching the course, should be assessing the students as well.
- e. Candidate (s) must achieve at least 50% marks to pass the course.
- f. No makeup / reset exam will be conducted for the candidate (s) who fail to achieve 50% marks in any course.

- g. The report of the attendance and result of each Course evaluation will be prepared by the Course in-charge and send to respective Program Director(s) for modules who shall forward a copy to the Controller of Examination and Dean AHS.
- d. Completion of theoretical course-work with in 10th months is mandatory.

5. Format and Guidelines for Coding the Courses

- a. A course code should be adopted as per HEC guidelines shown in Appendix D.
- b. A course code should appear as: XX[X] - # # #
- c. For example AST-101 or ACP-453 or ASP-610 etc.
 - i. The alphabetic characters two (or three in special cases) should identify the department/institute for example “A” represent allied health sciences and “ST” represent surgical technology etc.
 - ii. The three digit number should identify the course offered in the department and its first digit should specify the level with following details:
 - Number beginning with 1 or 2 for the courses taught in the first and second years of the BSc (4 years).
 - Numbers beginning with 3, 4 for the courses taught in the third or fourth years.
 - Compulsory courses like Islamic Studies and Pakistan Studies taught in the BSc (4 years) programs should have same code throughout (not identifying the department).
 - iii. The three digit number should identify the course offered in the department and its second and third digit should specify the level with following details:
 - Second and third digit should start as ‘01’ for basic sciences subjects and should continue as ‘02’, ‘03’, ‘04’.
 - Second and third digit should start as ‘10’ for specialty subjects and should continue as ‘20’, ‘30’, ‘40’.

6. Instructional Strategies / Learning Strategies:

Teaching strategies to be used are;

- a. Problem-based-learning (PBL)
- b. Task-based-learning (TBL)

- c. Team based Learning (TBL)
- d. Lectures.
- e. Demonstrations.

7. Research Project:

- a. All the students BSc Hons Allied Health Sciences, during Year III shall select one Research Project.
- b. The members of the Program Faculty Committee will declare the supervisors for each student.
- c. The topic of research project will be approved by the supervisor. The Research Proposal / Synopsis recommended by the supervisor will be presented to Programme Faculty Committee for approval.
- d. Article or case published in PMDC recognized journal /thesis will be presented to Program Faculty Committee for approval.
- e. A letter of 'satisfactory work' will be issued by the Program Faculty Committee to be submitted to Examination branch.
- f. Submission of the certificate of 'Satisfactory Work' is mandatory to appear in 4th Professional Exam.

8. Log Book:

- a. The Log Book Containing record of participation of student in following activities;
 - a. Daily Teaching.
 - b. Training (skill learning)
 - c. Scholarly activities
 - d. Course assessments.
- b. There will be separate log book for each calendar year.
- c. Log book will be assessed at the end of each year by the supervisor and marks will be awarded.
- d. These marks will be included in the internal assessment of the Professional examination.

9. Internal Assessment Criteria:

- a. Aggregate achieved scores of all courses in one year will constitute 'Internal Assessment'. These marks will be awarded from 80.
- b. Log book will be given 20.

- c. The Programme Director will ensure that the internal assessment scores reach the Controller of Examinations Office well in time.

PART - D

1. Professional examination eligibility criteria:

- a. To appear in Professional Examination, a candidate shall be required:
 - i. To have completed 75% attendance in complete one academic year.
 - ii. To have submitted evidence of payment of examination fee.
 - iii. To have 'satisfactory work' certificate for research work by the Programme Director for 4th professional examination only.
- b. Candidate (s) who fail to achieve 75% attendance at the end of complete academic year will not be allowed to sit in the Annual Examination. No makeup/ reset classes will be arranged. Candidate (s) will not be allowed to sit in supplementary examination. He will repeat whole year classes and will appear in next annual examination.

2. Professional examination format:

- a. Professional examination would be conducted for the candidates at the end of each of the four academic years.
- b. There will be a one Annual and one Supplementary 'Professional Examination' to be held each year. No Supra supplementary Examination shall be given.
- c. Each Professional Examination will consist of the following components:

i. Written Examination	Total Marks= 300 first professional exam 200 for subsequent exam
ii. Oral& Practical Examination	Total Marks = 200
iii. Internal Assessment	Total Marks= 100
- d. Written Examination will comprise of two papers. This will be from the courses covered in that academic year.
- e. Each paper will have 50 MCQs, Single best type (1 mark each) and 5 SEQs (10 marks each).
- f. The Oral & Practical examination will evaluate skills and attitudes aspects of the relevant course of BSc Hons Allied Health Sciences in detail.

- g. The Oral & Practical examination will be of 200 total marks consisting of the following components
- i. Practical, Lab work, OSCE Total Marks = 100
 - ii. Oral examination Total Marks = 100
- h. Islamic Studies/Ethics and Pakistan studies will be included in first professional examination.
- i. Table of specification (TOS) / Blueprint Document will be sent to Dean AHS by the programme directors. Dean AHS will forward these documents to the Controller Examination.
- j. Professional Examination Format:

S No:	Professional Examination	Papers	Format	Marks	Total
01	First Professional Exam	Paper I	50 MCQs & 5 SEQ	50 & 50	600
		Paper II	50 MCQs & 5 SEQ	50 & 50	
		Islamic Studies / Pakistan Studies		100	
		Oral & Practical Examination		200	
		Internal Assessment		100	
02	Second Professional Exam	Paper I	50 MCQs & 5 SEQ	50 & 50	500
		Paper II	50 MCQs & 5 SEQ	50 & 50	
		Oral & Practical Examination		200	
		Internal Assessment		100	
03	Third Professional Exam	Paper I	50 MCQs & 5 SEQ	50 & 50	500
		Paper II	50 MCQs & 5 SEQ	50 & 50	
		Oral & Practical Examination		200	

		Internal Assessment		100	
04	Fourth Professional Exam	Paper I	50 MCQs & 5 SEQ	50 & 50	500
		Paper II	50 MCQs & 5 SEQ	50 & 50	
		Oral & Practical Examination		200	
		Internal Assessment		100	

3. Declaration of result

- a. Final result of the professional examination will include 80 marks for internal assessment, 20 marks for log book, 300/200 marks for written examination and 200 marks for oral and practical examination.
- b. The candidate will have to score 50 % marks in written and 50 % marks in the oral and practical examination with a cumulative score of 50%, to be declared successful in the Professional Examination and will be upgraded to next year.
- c. Islamic studies/ Pakistan Studies passing score will be 33%.
- d. Candidates who fail to secure 50% marks in either theory paper or practical examination will be required to appear in failed component in supplementary examination.
- e. Candidates who fail to secure 50% marks in one or more of the papers will be required to sit in same paper in supplementary examination.
- f. Candidates who fail to secure 50% marks in supplementary examination will be allowed to appear in next annual examination for the failed component only.
- g. Candidate who fail to score 50% marks even in supplementary examination will not be promoted to next year.
- h. Candidate will have four chances (availed/Un-availed) in First Professional Examination. Candidates who fail to pass First Professional Examination in four attempts will be expelled from the programme. There is no such restriction in

second, third and fourth professional examination. Maximum duration for degree completion will be 7 years, after that candidate will not be allowed to sit in any exam.

4. Examination Schedule and Fee

- a. There will be a minimum period of 30 days between submission of application for the examination and the conduction of examination
- b. Examination fee will be determined periodically by the university.
- c. The examination fee once deposited shall not be refunded. But fee can be carried over to the next examination, if the attempt is not availed due to valid reasons.
- d. The Controller of Examinations will issue Roll Number Slips/Admittance Card on receipt of prescribed application form, documents satisfying eligibility criteria and evidence of payment of examination fee.

5. Panel of Examiners:

- a. The examiner can only be appointed for an examination if he / she holds qualification equivalent or greater than the qualification being offered in the program.
- b. Program Faculty Committee will send list of 'Initial paper setter', 'Final paper setters', 'Paper assessor', 'Internal examiner' and external examiner' to the Dean AHS.
- c. Dean AHS will forward this list to the Controller Examinations.
- d. Controller Examinations will ask the 'Initial paper setter' to submit three sets of each paper to Controller Examinations who will select one of them blindly to include in the paper.

6. Detail Marks Certificate (DMC) / Transcript:

- a. All the graduates after completing a programme of study will be entitled to receive the Detailed Marks Certificate (DMC)/Transcripts with percentage and Grads.
- b. Adequate information will be provided on Degree, Detailed Marks Sheet and Transcript with seal that ensures that the degree is authentic.

- c. On the request of the candidate/Degree holder, the transcript shall be prepared by Registrar Office which will be checked and verified by Programme Director and Controller of Examinations.
- d. The final transcript for the award of degree will include following information: (as per regulations of HEC)
 - I. Name of Student (Front Side)
 - II. Father's Name (Front Side)
 - III. Date of Birth (Front Side)
 - IV. Registration No. /Roll No. (Front Side)
 - V. Date of Admission into Degree Program (Back Side)
 - VI. Date of Completion of Degree Requirements (Back Side)
 - VII. Basic Admission Requirement of the Program (Back Side)
 - VIII. Previous Degree Held by the Student along with Institution's Name (Back Side)
 - IX. Course Wise Break-up (Front Side)
 - X. Subjects Detail along with Credit Hours (Front Side)
 - XI. Credit Hours Exempted/Transferred (Front Side)
 - XII. Overall Percentage and total marks (Front Side at the End of the Transcript)
 - XIII. Picture of the Applicant be printed on Transcript. (Front Side)
 - XIV. CNIC No. for Pakistani and Passport No. for Foreign Student (Back Side)
 - XV. Online Result Verification Key/ID (Front Side at the End of the Transcript)
 - XVI. Signature of Issuing Officer(s) (Front and Back Side at the end of the Transcript)
 - XVII. Scale Must be Mentioned on Back Side of the Transcript.(Back Side)
 - XVIII. Charter Date of the University/DAI may be Mentioned.(Back Side)
 - XIX. Name of Campus/College be Mentioned along with HEC Permission Date (Back Side)
 - XX. Mode of Study-----Regular or Private or Distance Learning (Front Side)

PART - E

1. Disciplinary action:

Disciplinary rules and regulations of the KEMU will be applicable to the staff, faculty and students of Allied Health Science Programme. Those students availing the hostel facility of KEMU will also be governed by the existing hostel rules of KEMU

2. Quality improvement of Programs:

a. The effectiveness of academic standards of BSc AHS Programs will be measured to determine the existing quality level and is taken as base line for its further improvement, through following procedure;

I. Internal Regular Monitoring:

i. The programs will be continuously monitored by the program Director and will be reported in their annual monitoring report. The report consists of following parts;

- Certificate that program academic and administration procedure are certified out according to the laid down standards.
- Problems which were encountered while administrating the programs along with list of problems that were solved and unsolved.
- Annual monitoring report of the B. Sc. Allied Health Sciences will be provided to Dean AHS during month of January each year.

II. Self-Evaluation (Peer Review):

- i. A peer review committee of two specialties of the same field from outside KEMU will be recommended by each Program Director to the Dean AHS.
- ii. The Dean will recommend the panels of peer review committees for each program to the Vice Chancellor for approval.
- iii. Self-Evaluation of Program will be conducted after every five years.
- iv. The Program Director will act as coordinator of the Self Evaluation.
- v. The Committees will;
 - Review the curriculum content and teaching activities.
 - Review of the annual monitoring report of the Program Director
 - Check quality on the Teaching /learning activities and resources.

- Meet the students and the Program Faculty and visit the learning environment in order to take their view on the effectiveness / smooth running of the program.

3. GENERAL CLAUSES

- a. The leave rules will be adopted as per KEMU leaves regulations or as issued by competent authority would be applicable to the students of BSc Hons Allied Health Sciences.
- b. In case of any ambiguity or difficulty in interpretation of these regulations, the Vice Chancellor will use his / her authority to decide the issue.
- c. In case of difficulty in interpretation of the rules the candidates may appeal to the Dean Allied Health Sciences and subsequently to the Vice Chancellor. The decision of the Vice Chancellor will be final and could not be challenged in any court of law.
- d. All the previous BSc Allied Health Sciences regulations 2012, hereby stand repealed.

Part - F

List of Appendices

- | | |
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| Appendix "A" | List of Programs |
| Appendix "B" | Application Form |
| Appendix "C" | Guide to write each course |
| Appendix 'D' | Scheme of study |

APPENDIX “A”**List of BSc Hons. Allied Health Sciences Programs**

Sr. No	Title Of Program
01	BSc Hons Anaesthesia Technology
02	BSc Hons Audiology
03	BSc Hons Cardiac Perfusion
04	BSc Hons Dental Technology
05	BSc Hons Medical Imaging Technology
06	BSc Hons Medical Laboratory Technology
07	BSc Hons Radiation Therapist
08	BSc Hons Speech and language pathology
09	BSc Hons Clinical Psychology
10	BSc Hons Prosthetics and Orthotics
11	BSc Hons Surgical Technology
12	BSc Hons Renal Dialysis Technology

APPENDIX "B"

FORM - I

Diary No. _____

APPLICATION FORM FOR ADMISSION INTO BSc Allied Health Sciences PROGRAMS
SESSION _____.

KING EDWARD MEDICAL UNIVERSITY, LAHORE

PROGRAMS		CHOICE OF PREFERENCE	PROGRAMS		CHOICE OF PREFERENCE
1.	Anaesthesia Technology		7.	Renal Dialysis Technology	
2.	Audiology		8.	Surgical Technology	
3.	Prosthetics and Orthotics		9.	Clinical Psychology	
4.	Radiation Therapist		10.	Speech & Language Pathology	
5.	Medical Laboratory Technology		11.	Medical Imaging Technology	
6.	Dental Technology		12.	Cardiac Perfusion	

THE ALLOCATION OF SEATS WILL BE ON MERIT AND FIRST COME FIRST SERVE BASIS.

1. Name of Applicant: _____

2. Father's Name: _____

3. Date of Birth: _____

4. CNIC No. _____

5. Present Address _____

_____ City _____

Tel: _____ Mob: _____ Email: _____

6. Permanent Address



Tel: _____ Mob: _____

7. CONTACT NUMBER OF CLOSE RELATIVE / NEXT OF KIN (Tel/Mob) _____

8. **For Overseas Applicants**

Permanent Address _____

Country of Origin _____ Passport No. & Expiry Date -----

Nationality _____ Tel: _____ Cell: _____

E-Mail _____

9. **DOCUMENTS TO ATTACHED (ATTESTED PHOTOCOPIES)**

1. Three Photographs Passport Size
2. Matric Certificate
3. F.Sc. Certificate
4. MCAT Result Card/SAT Result
5. CNIC
6. Domicile Certificate
7. Bank Receipts (Original)

Signature of the applicant:

APPENDIX "C"

Guide to write each Course:

Course code: _____

Course-Title: _____

Duration wks: _____ Credit: hours _____

Objectives:

-
-
-

Contents of the Course:

-
-
-

Practicals:

-
-
-

Recommended books:

-
-
-

(Curriculum format as template attached on next page.)

AHS-201

Systemic Anatomy

credit Hours: 4 (3+1)

Course Objectives

By the end of this course students should be able to:

- Identify the anatomy of Thorax Abdomen and pelvis
- Identify the anatomy of upper limb, lower limb, head and neck.
- Understand the basic concepts of general anatomy including skeleton and muscular skeleton.

Course Detail:

1. Head and neck:

- Skull
- Mandible
- Cranial nerves
- Cranial cavity
- Meninges
- Brain
- Orbit
- Neck.

2. Thoracic wall:

- Muscles of thorax (names only) Surface Anatomy.
- Trachea
- Lungs
- Pleura
- mammary glands(breast)
- Heart and thoracic vessels.

3. Thoracic cavity:

- Mediastinum
- Lungs
- bronchi, blood supply and lymphatic's,

4. Abdominal wall:

- Skin nerve and blood supply
- Muscles of anterior abdominal wall (Names only)

5. Abdominal cavity:

- General Arrangement of the Abdominal Viscera
- Peritoneum
- Omenta
- Mesenteries
- Stomach, blood, nerve, lymphatic supply
- Small intestine, blood, nervous and lymphatic supply
- Large intestine: blood nerve and lymphatic supply.

6. The pelvic wall:

- Anterior, posterior wall
- Diaphragm
- Pelvic cavity: Ureters, urinary bladder Male genital organs, Female genital organs
- Names of Muscles of pelvic region, blood supply, nerve supply

7. The upper limb:

- Bones of shoulder girdle and Arm
- Muscles, Axilla
- Brachial plexus
- Cubital fossa
- The forearm
- hand bones
- muscles, Blood supply, Nerve supply, lymphatics

8. The lower limb:

- Fascia
- Bones
- Muscle
- Femoral triangle
- Blood supply Nerve supply, Lymphatic supply.

Practical:

1. Study Axial and Appendicular skeleton on human skeletal model.
2. Study muscular skeletal system on human musculoskeletal model.

3. Demonstrate anatomy of Thorax, Abdomen and Pelvis through:
 4. Demonstrate anatomy of Upper limb, Lower limb, Head and Neck through.
- Learning resources:

- Human Models
- Video demonstration.

Recommended Books:

1. Essential books (text books):

- Richard S. Snell, 9th edition. Clinical Anatomy (By regions)

2. Reference books:

- Netter Atlas of human anatomy 5th Edition Saunders.
- Drake Vogal Mitcell, 2nd Edition. Gray's Anatomy for students
- BD. Churasia Human Anatomy (All regions)
- Ross and Wilson 11th Edition Waugh Grant. Anatomy and Physiology in health and illness

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APPENDIX "D"**Scheme of Study:**

	Modules	Credit hours	Code
Year 1	Introduction to Anatomy	(3-1) 4	AHS-101
	Introduction to Physiology	(3-1) 4	AHS-102
	Introduction to Pharmacology	(2-1) 3	AHS-103
	Introduction to Pathology	(3-1) 4	AHS-104
	Introduction to Biochemistry	2(2-0) 2	AHS-105
	Biostatistics & epidemiology	(2-0) 2	AHS-106
	Basic Computer and Information Sciences	(0-2) 2	AHS-107
	Physics	(2-0) 2	AHS-108
	Pakistan Study	(3-0) 3	AHS-109
	Islamic study	(3-0) 3	AHS-110
	English	(2-0)2	AHS-112
		(25-6) 31	
Year 2			
	systemic anatomy	(3-1) 4	AHS-201
	Systemic physiology	(3-1) 4	AHS-202
	Pharmacology	(3-1) 4	AHS-203
	Microbiology	(3-1) 4	AHS-204
	Pathology	(3-1) 4	AST-205

	Surgical instruments /equipments	(3-3) 6	AST-210
	Operating room techniques	(3-2) 5	AST-220
		(21-10) 31	