

CURRICULUM OF INDUS MEDICAL COLLEGE



PREPARED BY:

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PRINCIPAL INDUS MEDICAL COLLEGE,
TANDO MUHAMMAD KHAN

UNDER GUIDANCE OF:

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TANDO MUHAMMAD KHAN

PARTICIPANTS:

MEMBERS OF CURRICULAR COMMITTEE

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1. MISSION STATEMENT

“TO PREPARE GRADUATES IN THE FIELD OF MEDICINE, AS THE MOST COMPETENT DOCTORS ABLE TO SERVE THE POPULATION”

The prime objective of Indus Medical College is to provide Quality Medical Education and caring for ailing humanity through the Quality Health Delivery System. To prepare the Medical Graduates in the field of Medicine as most competent learned doctors, able to serve the population in general, poor and downtrodden in particular. Be also compatible at national & international level to take up the challenges of community and accept the sole responsibility with strong desire and remain focused to achieve the academic excellence, strongly believe in themselves and in the very basic principle of Medicine as the **“Most Noble Profession”** and maintain the professional honor and dignity throughout their life and uphold the principles of medical ethics.

2. INSTITUTIONAL AUTONOMY AND ACADEMIC FREEDOM



ORGANOGRAM

Indus Medical College, Tando Muhammad Khan is affiliated with Liaquat University of Medical & Health Sciences Jamshoro. However its accreditation is evaluated and monitored by Pakistan Medical & Dental Council (PM&DC) independently.

Indus Medical College is established by a private organization “Professional Associates (Pvt.) Ltd” which is registered with Security Exchange Commission of Pakistan.

College is run by Academic Council and Curriculum Committee. Institution is headed by Chief Executive Officer and Principal. (Organogram of Institution, Names and Qualification of members of Academic Council and Curricular Committee are attached herewith). Remaining within the guidelines of Pakistan Medical & Dental Council and following largely the curriculum set by Liaquat University of Medical & Health Sciences, Jamshoro, Indus Medical College, Tando Muhammad Khan is fully capable to formulate and implement curricular policies

to produce its graduates to have desired outcomes as enlisted above. The Principal, Academic Council and Curricular Committee meet regularly before, during and after completion of each academic session to ensure smooth implementation of curriculum. From Admission Process, Teaching and Learning Process, Revisiting Curriculum to assessment every aspect is minutely and frequently discussed to ensure policies implementation and achieve desired outcomes.

Indus Medical College, Tando Muhammad Khan has functional Administration and Finance Managers to provide monetary and physical resources needed for teaching and learning and to meet the needs of faculty and students for smooth execution of curriculum implementation.

Pakistan Medical & Dental Council guided curriculum is implemented in letter and spirit. Emphasis is given to horizontal and vertical integration, evidence based medical education practices, innovative teaching strategies within the framework of Pakistan Medical & Dental Council and increased role of active learning.

3. PROCESS OF CURRICULUM DESIGN AND ORGANIZATION AT INDUS MEDICAL COLLEGE

Indus Medical College, Tando Muhammad Khan is following general guidelines of Pakistan Medical & Dental Council in letter and spirit since its inception. It has an Academic Council and Curricular Committee which translates guidelines into action and implementation. Academic Council and Curriculum Committee meet from time to time to monitor all aspects of curriculum implementation from admission process, syllabus & teaching calendars, faculty and students requirements to assessment process. It ensures that objectives and outcome set in curriculum are achieved.

4. PRINCIPLES OF INDUS MEDICAL COLLEGE CURRICULUM

Indus Medical College Curriculum Committee follows the principle to develop and implement a curriculum which is outcome-based, patient - centered, community - relevant and promotes health and prevents disease.

It aims to implement a curriculum which incorporates active learning as a major educational strategy. It develops and implement a curriculum according to resources stipulated by accrediting agency (Pakistan Medical & Dental Council).

Indus Medical College curriculum has followed the standards laid down for the self-assessment process of an educational program by Higher Education Commission (HEC) Pakistan.

The curriculum aims at application of knowledge and problem solving rather than only recall of factual knowledge and to define the psychomotor skills that the students should be able to perform themselves and differentiate them from those that should be observed.

Curriculum focuses on the principles and concepts of medicine and effort has been taken to incorporate areas which students must know and avoid the repetition and lengthy available knowledge transfer which students can easily access.

EARLY CLINICALLY EXPOSURE

Curricular committee endeavors to implement a curriculum that has early exposure to patients, encourage students to link concepts of basic and clinical disciplines. Curriculum specially emphasizes knowledge, skills and attitudes required by a general practitioner. Curriculum ensure that clinical sciences get at least half of the time of the undergraduate program and ensure systemic and organized learning in clinical setting.

Special emphasis has been given to the fact that credit hours allocation should be done in a way that clinical disciplines and training should have more than 50% of time allocation with maximum possible time to practical learning and implementation.

PRIME OBJECTIVE OF CURRICULUM

The prime objective of Indus Medical College is to provide quality Medical Education and Caring for the ailing humanity through quality Health Delivery System. Students should be well versed in different national health program with special emphasis on disease prevention and health promotion.

Curriculum aims to prepare the medical graduate (in the field of Medicine) as the most competent learned doctor able to serve the population in general and poor and downtrodden in particular. Graduates should have strong believed in themselves and in very basic principles of Medicine as the noblest profession and maintain professional honor and dignity throughout the life and uphold the principles of medical ethics. Hence teaching and assessing ethics and behavior has been made the part of curriculum. Learning to be an effective communicator, demonstrating empathy with patients and developing a professional trust building doctor –patient relationship. It responds to the evidence based local, national and global needs. Graduates should be compatible at National and International level to take up the challenges in community and accept the sole responsibility with strong desire and remain focused to achieve academic excellence.

5. OBJECTIVES OF CURRICULUM

Curriculum follows the guidelines of Pakistan Medical & Dental Council to prepare a 7 Star graduate who should have knowledge, skills and attitude of a competent medical graduate. As per Pakistan Medical & Dental Council recommendation a 7 star competent Medical Graduate should have outcome competencies of:

OBJECTIVES OF MBBS PROGRAM

S. NO.	OBJECTIVE	SKILL
1.	Clinical, Cognitive and Patient Care Skills	(Skillful)
2.	Scientific Knowledge for Good Medical Practice	(Knowledgeable)
3.	Knowledge of Population Health and Health Systems	(Community Health Promoter)
4.	Critical Thinking, Problem Solving and Reflective Practice	(Problem-solver)
5.	Competencies related to Professional Attributes	(Behavioral Sciences and Professionalism)
6.	Competencies to Research	(Researcher)
7.	Competencies to Lead and Manage	Leader and Role Model

6. OUTCOMES

Indus Medical College, Tando Muhammad Khan aims to teach and train medical graduates to become a 7 star doctor as envisioned by Pakistan Medical & Dental Council. The program follows the basic guidelines of Pakistan Medical & Dental Council and Liaquat University of Medical & Health Sciences, Jamshoro to produce a graduate who has knowledge, skills and attitude of a competent medical graduate. Pakistan Medical & Dental Council defines objectives of MBBS Program to produce medical graduates who should be a seven star doctor as above.

Keeping these objectives in mind and as per our mission statement Indus Medical College expects following outcomes from its graduates.

After graduation an Indus Medical College MBBS graduate should have knowledge, skills and behavior needed to:

1. Manage common problems seen in community independently
2. Able to provide basic initial care to serious diseases and assist in management.
3. Recognizes signs of critical illnesses and refer to the appropriate location within the health care system after life saving actions.
4. Act professionally and ethically demonstrating respect to the culture of community
5. Shows commitment to national programs of health promotion and prevention of disease
6. Understands the national health system and is able to work within the system
7. Communicates effectively with parents, families and other stakeholders taking care of patients.

7. CURRICULUM OUTLINE

Indus Medical College curriculum is based on traditional subject based design with balanced time allocation to basic medical sciences and clinical disciplines.

Special emphasis has been given to the fact that credit hours allocation should be done in a way that clinical disciplines and training should have more than 50% of time allocation with maximum possible time to practical learning and implementation.

Topics selection has been done in a way so that emphasis is on the patient rather than disease to make a humane approach to solve the problem of patient. Hence curriculum is patient based.

Training of graduate is based on a community based approach with thoughtfully designed field, outreach and outpatient modules.

HEALTH PROMOTION AND DISEASE PREVENTION

Special emphasis has been given to allocation of time not only to the diagnosis and treatment of the ailment but also on the health promotion like role of diet and nutrition, extracurricular activities like sports, culture, debates and communication to highlight the importance of health promotion. Basic preventive measures like hand washing, breast feeding, nutrition, immunization and safe drinking water has been emphasized in the curriculum and integrated where ever relevant to focus on prevention and health promotion rather than only disease and its treatment.

All efforts have been made to design the curriculum which is outcome based and objectives meet the outcomes.

LEARNING METHODS

All evidence based modern methods of learning have been incorporated in teaching strategies along with the traditional modes of transfer of knowledge. Lectures, practical's, demonstrations, seminar and symposia, clinic pathological conferences will be conducted. More emphasis is given to small group teaching.

Modern methods of learning like Team Based Learning, Problem Based learning, role plays, simulation and practical skill learning in skill labs have been given maximum possible space. Methods to encourage active learning have been incorporated.

Clinical learning has been organized in a systemic manner with integration of relevant disciplines.

Curriculum is designed in such a way that outcome competencies are assessed both during formative teaching and summative assessment.

8. EDUCATIONAL CONTENTS/ SYLLABUS

Indus Medical College, Tando Muhammad Khan decides incorporation of educational content as per Pakistan Medical & Dental Council recommendation and assessment requirement by Liaquat University of Medical & Health Sciences, Jamshoro. A pre and post educational session meeting of academic council and curricular committee reviews the contents, discusses with relevant faculty and stake holders and finalizes the educational program, teaching calendar and learning strategies. Subject specialists of all disciplines take active part to review educational content for next session. Department of medical education plays the key role in curricular committee.

OUTCOME DRIVEN CONTENT

Curricular committee ensures that educational content and its delivery are directed towards the goals of achieving the outcomes and competencies as agreed upon in the curriculum document. Focus and emphasis is given to common problems in all disciplines to learn the skills needed for a successful general medical practitioner. Curriculum ensures that applied basic sciences are relevant to general medical practice. A curricular map is prepared and printed as syllabus book before the start of session for all years of education to be distributed to students and faculty.



SCHEME OF LEARNING

Along with Anatomy, Physiology, Biochemistry, Pathology, Pharmacology and Community Medicine areas like Behavioral Sciences, Ethics, Communication Skills, English Language, Forensic Medicine, Toxicology, Islamiyat, Pakistan Studies, Patient Safety, Professionalism, Research, Clinical Methods, Evidence Based Medicine and Infection Control, Preventive Medicine, Reproductive Health and Health Promotion are incorporated in the educational content to be taught. Topics like Study Skills, Resource Identification, Data Searching, Leadership, and Principles of Management are made part of the content.



CLINICAL ROTATIONS

Rotation in clinical disciplines ensures that students are in supervised and planned contact with patients in indoor and outdoor setup. Field visits in community settings are organized to make students understand social and community factors relevant to health and disease.

Details of subjects and topics taught are given for each year in two sessions.

Syllabus Book/ Study Guides are attached along with the curriculum document.

9. INSTRUCTIONAL METHODS

As already stated all evidence based modern methods of learning have been incorporated in teaching strategies along with the traditional modes of transfer of knowledge. Lectures, Practical's, Demonstrations, Seminar and Symposia, Clinic Pathological Conferences will be conducted. More emphasis is given to small group teaching. Modern methods of learning like Team Based Learning, Problem Based Learning, Role Plays, Simulation and Practical Skill Learning in Skill Labs have been given maximum possible space. Methods to encourage active learning have been incorporated. Self-directed learning is also given adequate share.

INSTRUCTION METHOD SUMMARY



Problem-based Learning



Tutorials/Practical sessions/Essential Skills and Lab practice

- ✚ Clinical rotations and ward visits
- ✚ Lectures/Seminars/CPC's - using modern audio-visual techniques, distant learning using electronic devices and current Information Technology facilities.
- ✚ Journal Club
- ✚ Community -based learning
- ✚ Team Based Learning
- ✚ Small Group Teaching
- ✚ Acquisition of Competencies through any other sources
(Innovation by Peer Learning in Reproductive Health)

TBL Students Physiology



**WORKING WITH AHANG AND AKU FOR PEER LEARNING IN
REPRODUCTIVE AND SEXUAL HEALTH**



SMALL GROUP TEACHING



10. CURRICULAR ORGANIZATION

Indus Medical College, Tando Muhammad Khan has a curriculum which is aligned with the mission statement of Liaquat University of Medical & Health Sciences with which it is affiliated. Its curriculum has been designed in liaison with the mission statement of the institution. Curriculum has been designed to cater for the needs of local community and prepare doctors who can serve all over Pakistan. It follows evidence based medical practices to prepare competent doctors who will be ready to accept the challenges globally as well.

Indus Medical College, Tando Muhammad Khan guided by Academic Council and Curricular Committee largely follows the subject based traditional MBBS Curriculum prepared by Pakistan Medical & Dental Council and Higher Education Commission.

In initial two years major focus and credit hours are allocated to understand the structure and function of human body and systems (Anatomy and Physiology) and its structure and functioning at cellular level (Histology and Biochemistry).

Applied aspects of these subjects are part of curriculum to link basic sciences with clinical sciences. In these two years Ethics, Behavioral, Professionalism, Communication, Demographic and Social Aspects of Medicine are also given due share.



COMMUNITY HEALTH CARE

This curriculum is designed to produce doctors who can manage common health problems in community and assist in managing serious health problem at tertiary level. These doctors should be competent enough to provide adequate care to patients with empathy, deal with patients as respectable humans, manage the patient as a whole not only his symptoms or current problem (Example: IMNCI Strategy in Paediatrics), able to communicate effectively, provide proper counseling for disease prevention and health promotion.



TEACHING METHODS

Teaching methodologies are applied on the concepts of problem based learning to integrate concepts of basic sciences with clinical sciences. After first two years structural changes in human body due to disease (Pathology) and treatment required (Pharmacology) are taught. Working in community for disease prevention (Community Medicine), role of medicine in legal matters (Forensic Medicine), Diseases of eye (Ophthalmology) and Ear, Nose and Throat (ENT) are taught in third and fourth years. Clinical disciplines teaching in Medicine, Surgery, Reproductive Health (Obstetrics & Gynaecology) and Child Health (Paediatrics) are started from third and fourth years and assessed in final years. Rotations are made in clinical disciplines to make the teaching systemic and organized. CPC are held to encourage inter disciplinary learning involving students.

Though curriculum is traditional and subject based every effort is made to make different areas to be integrated in teaching calendar. Emphasis is given on active learning strategies, interactive lectures, small group discussions, tutorials, assignment, scenario based learning, and other evidence based learning and teaching strategies like team based learning.

TABLE OF SPACING AND HOURS OF SUBJECTS IN MBBS COURSE

SUBJECT	1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	5TH YEAR	TOTAL HOURS
BEHAVIOURAL SCIENCES	5 Hrs.	5 Hrs.	5 Hrs.	5 Hrs.	5 Hrs.	25 Hrs.
ISLAMIC & PAKISTAN STUDIES	15 Hrs.	15 Hrs.	10 Hrs.	10 Hrs.	----	50 Hrs.
ANATOMY	250 Hrs.	250 Hrs.	----	----	----	500 Hrs.
PHYSIOLOGY	250 Hrs.	250 Hrs.	----	----	----	500 Hrs.
BIOCHEMISTRY	100 Hrs.	100 Hrs.	----	----	----	200 Hrs.
PHARMACOLOGY	----	----	300 Hrs.	----	----	300 Hrs.
PATHOLOGY	15 Hrs.	25 Hrs.	260 Hrs.	200 Hrs.	----	500 Hrs.
*FORENSIC MEDICINE	----	----	100 Hrs.	----	----	100 Hrs.
*COMMUNITY MEDICINE	25 Hrs.	25 Hrs.	50 Hrs.	150 Hrs.	----	250 Hrs.
MEDICINE & ALLIED	25 Hrs.	30 Hrs.	120 Hrs.	265 Hrs.	360 Hrs.	800 Hrs.
NUCLEAR MEDICINE	----	10 Hrs.	----	10 Hrs.	----	20 Hrs.
EMERGENCY MEDICINE						
MEDICINE ELECTIVE						
*** PSYCHIATRIC MEDICINE						
DERMATOLOGY & GENERAL PRACTICE						
PAEDIATRIC MEDICINE	5 Hrs.	10 Hrs.	15 Hrs.	50 Hrs.	70 Hrs.	150 Hrs.
SURGERY & ALLIED	25 Hrs.	30 Hrs.	120 Hrs.	265 Hrs.	360 Hrs.	800 Hrs.
**** RADIOLOGY	5 Hrs.	10 Hrs.	----	10 Hrs.	15 Hrs.	40 Hrs.
ORTHOPAEDICS, PAED. SURGERY						
NEUROSURGERY						
SURGERY ELECTIVE						
EMERGENCY SURGERY & ANESTHESIA						
Obstetrics & Gynaecology	10 Hrs.	10 Hrs.	50 Hrs.	100 Hrs.	130 Hrs.	300 Hrs.
Ophthalmology	5 Hrs.	10 Hrs.	15 Hrs.	70 Hrs.	----	100 Hrs.
Otorhinolaryngology (ENT)	5 Hrs.	10 Hrs.	15 Hrs.	70 Hrs.	----	100 Hrs.
Clinico – Pathological Conference	----	----	----	60 Hrs.	----	60 Hrs.
Total	740 Hrs.	790 Hrs.	1060 Hrs.	1265 Hrs.	940 Hrs.	4795 Hrs.

* Bioethics will be taught in the Forensic Medicine.

** Biostatistics will be taught in Community Medicine.

*** Behavioral Sciences will be taught in Psychiatry.

**** Biophysics will be taught in Radiology.

DISTRIBUTION OF SUBJECTS INSTRUCTIONAL CONTENTS INTO

THEORY AND PRACTICAL LEARNING

TYPE OF SUBJECT	THEORY CONTENT	PRACTICAL SKILLS CONTENT
All Basic Sciences	50%	50%
Pre-Clinical Sciences (Pharmacology and Therapeutics, Forensic Medicine, Community Medicine, Pathology)	40%	60%
Clinical Sciences	30%	70%
Internship/House Job	0%	100%

TIME ALLOCATION TO CURRICULUM CONTENT= 7493 HOURS

SUBJECT SPECIFIED COMPETENCIES	GENERAL COMPETENCIES
80% 5994	20% 1499

TIME ALLOCATION TO THE STUDY DESIGN (5184)

INSTRUCTIONS	SELF STUDY
80% 4795	20% 1198

TIME ALLOCATION TO SITE OF STUDY (4147)

INSTITUTION BASED	COMMUNITY ORIENTED
80% 3836	20% 959

11. CURRICULAR MANAGEMENT

Curricular Committee manages curriculum. Indus Medical College, Tando Muhammad Khan has a Curricular Committee which is represented on the Institutional Organogram. It has terms of references which include:

1. Planning, revisiting, reviewing, implementation and evaluation of the curriculum in order to ensure that graduate who are being prepared should have competencies required for a PMDC 7 Star doctor.
2. Mapping of curriculum, revisiting educational strategies and exploring and implementing evidence based innovative educational techniques.

3. Curricular Committee has two members formally trained in medical education.
4. Curricular committee and department of medical education ensure that teaching calendar of each semester is prepared and disseminated to the concerned faculty well in advance of the start of semester.
5. Curricular committee and department of medical education ensure that lectures, practicals, demonstrations and clinical sessions are held regularly and punctually. A SMS alert system ensures that teachers are reminded of their next scheduled class one day prior of conduction.
6. Curricular committee and department of medical education ensure that attendance of faculty, students, topic taught and feedback is recorded and documented for laboratory work, Skill lab work, OPD classes, clinical rotations and field visits.
7. Curricular committee and department of medical education ensure that log books are designed and given to students to know their study schedules, record their learning experience and get it signed from the teacher / supervisor/ facilitator.

12. ASSESSMENT



Indus Medical College, Tando Muhammad Khan is affiliated with Liaquat University of Medical & Health Sciences, Jamshoro for assessment. College ensures facilitating students to appear in the examination at university and holding of the components of examination at its campus. Transparency, decorum and fairness are ensured at each aspect of assessment. Periodical review is done of the results of each session to find out the strengths and weaknesses of learning, teaching and curricular issues to be addressed.

ASSESSMENT AREAS

A separate examination department in liaison with concerned officials of the University Controller of Examinations has been established. A policy defining clear process of transparent assessment has been devised in lieu with university. Policy ensures that assessment methods are compatible with instruction methods and helpful in achieving the outcomes as outlined earlier.

It ensures that all domains of competencies in the area of knowledge, skills, attitude, professionalism and communication are part of the assessment.

ASSESSMENT REVIEW

All evidence based assessment methods like SBQs, SEQs, OSPE and OSCE are applied in the assessment process.

A quality assurance cell in collaboration with university ensures transparent and evidence based procedures before, during and after the assessment. External examiners are part of paper setting and practical examinations. Appeal system for students is as per university rules. Assessment standards are reviewed and set for items used in examinations.

SCHEME OF STUDIES

PROFESSIONAL MBBS EXAMINATIONS

a. First Professional MBBS Part-I Examination:

To be held at the end of the 1st year in the following subjects in course work completed in the first year:

(a)	Anatomy and Histology	PART-I
	One Paper	90 Marks
	Internal Evaluation	10 Marks
	Oral & Practical	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks
(b)	Physiology	
	One Paper	90 Marks
	Internal Evaluation	10 Marks
	Practical & Oral Exam	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks
(c)	Biochemistry	
	One Paper	45 Marks
	Internal Evaluation	5 Marks
	Oral & Practical	45 Marks
	Internal Evaluation	5 Marks
	Total	100 Marks

(a)	Anatomy and Histology	PART-II
	One Paper	90 Marks
	Internal Evaluation	10 Marks
	Oral & Practical	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks
(b)	Physiology	
	One Paper	90 Marks
	Internal Evaluation	10 Marks
	Practical & Oral Exam:	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks
(c)	Biochemistry	
	One Paper	45 Marks
	Internal Evaluation	5 Marks
	Oral & Practical	45 Marks
	Internal Evaluation	5 Marks
	Total	100 Marks

***NOTE:** Any students who fail to clear the first Professional MBBS Part-I & Part-II examination separately in three chances availed or un- availed after becoming eligible for each examination shall cease to become eligible for further medical education in Pakistan.

b. 2nd Professional MBBS Examination:

To be held at the end of the 3rd year in the following subjects

(a)	Pharmacology & Therapeutics	
	Theory	135 Marks
	Internal Evaluation	15 Marks
	Oral & Practical	100 Marks
	Animal Experiment	35 Marks
	Internal Evaluation	15 Marks
	Total	300 Marks
(b)	Pathology General & Microbiology	
	Theory	135 Marks
	Internal Evaluation	15 Marks
	Practical & Oral Exam	135 Marks
	Internal Evaluation	15 Marks
	Total	300 Marks
(c)	Forensic Medicine	
	Theory	90 Marks
	Internal Evaluation	10 Marks
	Viva Voce	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks

c. 3rd Professional MBBS Examination:

To be held at the end of the 4th year in the following subjects

(a)	Community Medicine	
	Theory	135 Marks
	Internal Evaluation	15 Marks
	Oral & Practical	110 Marks
	Internal Evaluation	15 Marks
	Project	25 Marks
	Total	300 Marks
(b)	Special Pathology	
	Theory	135 Marks
	Internal Evaluation	15 Marks
	Practical & Oral Exam	135 Marks
	Internal Evaluation	15 Marks
	Total	300 Marks

(c)	Otorhinolaryngology (ENT)	
	Theory	90 Marks
	Internal Evaluation	10 Marks
	Oral & Practical	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks
(c)	Ophthalmology	
	Theory	90 Marks
	Internal Evaluation	10 Marks
	Oral & Practical	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks

d. Final Professional MBBS Examination:

To be held at the end of the 5th year in the following subjects

(a)	Medicine Including Psychiatry & Dermatology	
	Theory	
	Paper - I	135 Marks
	Internal Evaluation	15 Marks
	Paper - II	135 Marks
	Internal Evaluation	15 Marks
	Total	300 Marks
	Clinical & Practical Exam	
	Clinical	240 Marks
	OSCE	30 Marks
	Internal Evaluation	30 Marks
	Total	300 Marks
(b)	Surgery including Orthopaedic & Anesthesia	
	Theory	
	Paper - I	135 Marks
	Internal Evaluation	15 Marks
	Paper - II	135 Marks
	Internal Evaluation	15 Marks
	Total	300 Marks
	Clinical & Practical Exam	
	Clinical	240 Marks
	OSCE	30 Marks
	Internal Evaluation	30 Marks
	Total	300 Marks

(c)	Obstetrics & Gynaecology	
	Theory	
	Paper - I	90 Marks
	Internal Evaluation	10 Marks
	Paper – II	90 Marks
	Internal Evaluation	10 Marks
	Oral & Practical	180 Marks
	Internal Evaluation	20 Marks
	Total	400 Marks
(d)	Paediatrics	
	Theory	
	Internal Evaluation	90 Marks
	Oral & Practical	10 Marks
	Paper – II	90 Marks
	Internal Evaluation	10 Marks
	Total	200 Marks

DISTRIBUTION OF MARKS IN EVALUATION

University Examination	Internal Assessments
90%	10%

EXAMINATION OF SUBJECT BASED MBBS CURRICULUM

Total 100%

Internal Assessment 20%

University Examination 80%

Internal Assessment Theory	Internal Assessment Practical	University Assessment Theory	University Assessment Practical	Total
10%	10%	40%	40%	100%

GENERIC COMPETENCIES

Total Hours = 1499

- Pakistan Studies
- Islamiyat



13. STUDENTS



Indus Medical College, Tando Muhammad Khan is engaging their students in management, delivery as well as evaluation of their services by involving them as member in different academic committees of the institute. Their suggestions and ideas are always respected and welcomed by the institutional management and leadership. They are always involved in curricular as well as extra -curricular activities. They are always been motivated by arranging different seminars and workshops from international facilitators.



ADMISSION POLICY

The Medical College offers a five-year Bachelor of Medicine, Bachelor of Surgery (MBBS) programme. The programme is open to all academically qualified candidates without consideration to gender, religion, race, creed, colour or domicile. Students from anywhere in Pakistan and overseas may apply. Indus Medical College believes in fair and merit-based *admissions* for the candidates from around the world. There are no quotas, reserved seats or *admissions* against donations. Admission policy largely follows the guidelines of Pakistan Medical & Dental Council.



STUDENT SUPPORT PROGRAMME

Student Support Programme has been devised to help students in loan schemes, debt schemes and financial needs of students.

There is student counseling office to deal and fulfill students' psychological, academic and career requirements. For career counseling time by time certain seminars has been arranged at institutional level. Their teachers are available always in their corresponding departments to deal with their daily academic requirements even after the lectures to discuss and sit with their teachers.

Students' academic records are always been kept confidential in their corresponding departments, the examination branch and student record office of the institute.

Students' medical records are also confidentially kept in the student record office.

A dedicated person has been appointed for record keeping in student record office. Only authorized persons has access to the records if genuinely required and allowed by the registrar office in the benefit of student.

Students are invited to attend curricular committee meetings from time to time and their suggestions given due weightage. Their perceptions, suggestions and problems regarding curriculum are being notified and discussed with the senior members of the curricular committee and medical education department in different meetings. Students from each batch are voluntarily invited to be the part of sports committee and other extracurricular activities. They also play role as volunteer in different seminars, lectures, academic programs, Pakistan day, culture day and top ten ceremonies to guide the participants and to help the management. They are also actively involved in top ten ceremonies, Pakistan day and sports week.

They actively participate in trilingual declamation contest at different universities.

On many occasions, they have presented research papers in different symposia.

Students can contact “Student Affairs” office at in case of any discrepancies.

Funds and finances are allocated for students support as per Pakistan Medical & Dental Council Policy.

This institute has clear policy to systemically seek, analyze and respond to student feedback about the processes and products of educational programmes through students presentation in different committees i.e., curricular committee, sports committee, extracurricular committee. They have been provided free access to preventive and therapeutic health services available at Indus Medical College Hospital. Institutional policy for health care policy for students and faculty have been approved.

STUDENTS CODE OF CONDUCT

Policy Name: Student Code of Conduct and Disciplinary Procedures

Devised By: Department of Medical Education

Approved by: Academic Council

Date of Approval: January 5, 2014

Date of Revision: March 11, 2019

Contact Office: Office of the Registrar

-  As a part of your learning, you will have privileged access to people, and to their health information.
-  The Student Code of Conduct and Disciplinary Procedures has been planned with the primary objective of safeguarding exemplary behavior and conduct of students which they can achieve by exhibiting the highest degree of moral and ethical values.
-  The trust that people place in doctors carries considerable responsibility, hopes and expectations regarding your behavior.
-  It is imperative that you are aware of these responsibilities and expectations from the beginning of your medical training.
-  Any breach of these expectations could result in serious repercussions for you, your continuing medical education and your later career.
-  Indus medical college is committed to support you to uphold this Code and to assist you throughout your studies, and encourages you to know where and how to access available support services. You should think of yourself as a doctor-in-training, rather than as a student in theoretical studies.
-  Though the degree of your involvement with patients, families and the wider community may initially be small, from now on you will be meeting people as part of your education as a doctor.
-  As you progress through your training you will be increasingly part of the health care team.
-  You represent the Medical institute, and the medical profession, whenever you meet people in this way.
-  Your behavior as part of health care system, should rationalize the trust the public places in the medical profession.

- ✚ All students will diligently apply themselves to their studies.
- ✚ Students shall attend lectures, tutorials, seminars, practical sessions, clinics and ward assignments, examinations and other scheduled courses and activities, in accordance with the 75% attendance requirements of the affiliated University
- ✚ Each student shall be solely responsible for completing his / her scheduled examinations and attending other academic activities, as per his / her programme requirements.
- ✚ Students will respect the confidentiality of information pertaining to all clients of the IMC and IMCH including patients and their records, and will use it in no other circumstances than for authorized academic and professional purposes.
- ✚ The above mentioned principles therefore apply right from the start. We ask that you read through these principles and sign this document acknowledging your agreement to obey with them.

DISCIPLINARY COMMITTEE

- ✚ A disciplinary committee and students grievances committee ensures disciplinary action or provides remedies in case of students status being affected due to any reason.
- ✚ They have been informed about code of conduct at Indus Medical College as medical professional student on very first day on orientation day. Code of conduct is available for dissemination for students to be informed beforehand.
- ✚ Transfer policy is as per Pakistan Medical & Dental Council Guidelines.
- ✚ Student's disciplinary committee ensures that students are not participating in any political activity.
- ✚ Ramps and lifts on hospital gate way are available for handicapped students. Scholarship program and support program is available for meritorious and deserving students. Student's exchange, national and international rotation, electives & internship program have been devised.

DISCIPLINARY OFFENCES

-  Any form of intimidation, insult, abusive language, assault, molestation or harassment of students, staff, faculty, patients or other clients, within or outside the University.
-  Any form of unauthorized picketing, rallies, demonstrations or organized obstructions of any student / University / University Hospital function in any manner whatsoever.
-  Any attempt to conceive, design or affect any plan of whatever nature whose object or consequence is to disrupt academic programmes of the University or its operations.
-  Malicious acts, theft, willful damage or misuse of University's or any third party's property.
-  Students residing or availing the hostel and its facilities shall comply with all the hostel rules and will conduct themselves in a manner that respects the rights of other resident students, faculty and staff of the University.
-  Unauthorized housing of persons in the hostel or other buildings at the college.
-  Raising funds, accepting donations or engaging in similar activities for and on behalf of the college without a prior written approval of the institute.
-  Smoking where prohibited in settings of the college.
-  Procurement, possession, use, sale or display of any weapon, including firearms or any other contraband item on campus or at any University - related event.
-  Procurement, possession, use, sale and consumption of banned drugs, alcohol or other contraband items on campus or at University related events.
-  Attendance on campus or at University-related events in an intoxicated state or under the influence of banned substances.
-  Any act of violence causing injury or damage to any person or property at the University.

- ✚ Providing wrong information, giving false and / or fabricated evidence, deliberately concealing material facts or information to the University in any proceedings and inquiries carried out at any forum by the University.
- ✚ Committing or involvement in any act of deceit, fraud, forgery with the University, students, staff or faculty.
- ✚ Abuse, unauthorized or fraudulent use of University computers, network systems or computer files.
- ✚ Failure to comply with or any act in violation of, contravention of or disregard for published University policies, regulations or failure to comply with the direction of University officials acting in performance of their duties.
- ✚ Any form of intimidation, insult, abusive language, assault, molestation or harassment of students, staff, faculty, patients or other clients, within or outside the University.

MEDICAL STUDENT DRESS CODE

All students should adhere to dress standards which satisfy the requirements of:

- ✚ Workplace Health and Safety
- ✚ Patient Safety
- ✚ Infection Control
- ✚ Creating a professional and positive public image
- ✚ Identification of students to patients / staff
- ✚ Comfort and security

The dress standard must be adhered to whenever a student is working in a professional capacity.

STANDARDS

- ✚ Dress standards should be appropriate to the work being performed.
- ✚ Hair must be neat at all times. Long hair should be tied back when working in clinical areas.

- ✚ Jewellery and body piercing should be discreet and appropriate to patient care. It should not create an occupational hazard.
- ✚ Nails should be short, clean and neatly trimmed, particularly for patient safety and comfort.
- ✚ In areas where there is an infection control risk students should not wear nail polish or acrylic nails.
- ✚ Tattoos must be covered.

FOOTWEAR

- ✚ Footwear should be professional and fully enclosed.
- ✚ In Operating Room Suite students must wear footwear that is easily cleaned and non-slip.

Professionalism is one of the core values of Indus Medical College, Tando Muhammad Khan

The dress of medical students should reflect this, while in the premises of the college and hospital

14. FACULTY

Indus Medical College, Tando Muhammad Khan has a leadership which is highly qualified by education, training and experience. Its Chief Executive Officer Prof. Dr. Jan Mohammed A. Memon along with his numerous other contributions has unique distinguishing achievement of being the pioneer Vice Chancellor of first public sector medical university of Pakistan, The Liaquat University of Medical & Health Sciences, Jamshoro.

✚ FACULTY HR POLICY

Indus Medical College, Tando Muhammad Khan has a Human Resource Department who devises policies for hiring of faculty based on qualification, experience and research standards and rules set by Pakistan Medical & Dental Council. This institute is privileged by sufficient number of trained, qualified and research oriented faculty as per the needs of medical educational needs of

students as per Pakistan Medical & Dental Council requirements. Institute has sufficient experienced faculty members in all basic and clinical disciplines.

FACULTY DEVELOPMENT PROGRAM

Department of medical education has devised a faculty development program with objective set to train the newly hired faculty in transferring knowledge and skills effectively. Department of medical education have arranged multiple workshops in need based curriculum, Effective Presentation, Interactive Lectures, PBL, Team Based Learning, Research, BCQ Designing and other relevant areas.

Multiple CMEs and symposia have been conducted at our college from time to time and faculty has been encouraged to participate and avail CME hours. Faculty is encouraged to participate in medical conferences nationally and internationally and present their work. HR policy has clear guidelines of forbidding the faculty to participate unwanted political and unsocial activities.

Medical education arranges workshops for senior faculty to participate in learning activities related to innovative and evidence based medical education strategies. Every faculty member has to submit a self-assessed annual report of his or her performance.

Faculty Training TBL IMC



15. PROGRAM EVALUATION AND CONTINUOUS RENEWAL

Indus Medical College, Tando Muhammad Khan evaluates its teaching program as per standards set by Quality Assurance Cell of Higher Education Commission of Pakistan. We have established a Quality Assurance Cell at Indus Medical College which remains in close contact with QEC Jamshoro. Our cell has a director and supported by notified program teams and Assessment Teams. We have attended QEC meeting at Liaquat University of Medical & Health Sciences, Jamshoro. We have also collaborated in arranging QEC Workshops supported by Higher Education Commission Pakistan.

Indus Medical College, Tando Muhammad Khan conducts a formal MBBS Program evaluation twice a year and conducts its Self-Assessment Exercise and prepares a Self-Assessment Report (SAR). Department of Medical Education has organized multiple workshops on need based curriculum for the faculty to develop skills for identification of gaps in the curriculum. Gaps along with student's formative and summative assessment results and their feedbacks are discussed at curricular committee to find out the means to address them.

Resources in terms of monetary and facilities and equipment are discussed and provided by college administration as and when necessary. All stake holders' administration, faculty and students are involved in the process to assess the program as per Higher Education Commission and Pakistan Medical & Dental Council Standards to review, monitor, map, monitor and implement curriculum needs for continuing improvements.

Implementations are documented in teaching calendar and where ever necessary.

16. GOVERNANCE, SERVICES AND RESOURCES

Indus Medical College, Tando Muhammad Khan has an organogram which depicts the hierarchical system of administrative and academic governance. College is run by a Board of Governors registered with Security Exchange Commission of Pakistan as Professional Associates (Pvt.) Ltd. Board of Governors has given executive powers to Prof. Dr. Jan Mohammed A. Memon to run the institution as

Chief Executive Officer (CEO). He is supported by an Academic Council and Curricular Committee to run the administrative and academic affairs of the college.

Principal, Deans, Head of Departments, Medical Superintendents, Director Finance, Human Resource, Controller of Examination and other officials are part of organization with their well-defined roles as per Pakistan Medical & Dental Council Rules and Criteria's.

College has already gone through successfully two formal evaluations by Pakistan Medical & Dental Council teams for initial recognition and fulfills all legal, financial, and infrastructure requirement criteria's as per Pakistan Medical & Dental Council Guidelines. It has a well-equipped 500 bedded functioning hospital with facilities and equipment as per Pakistan Medical & Dental Council Guidelines.

It has functional learning resource center with digital library and classroom, IT facilities, skill lab, laboratories and teaching infrastructure as per Pakistan Medical & Dental Council Criteria's.

It has a disciplinary committee to address disciplinary issues. Attached hospital has a system of welfare for patients in the form of free beds for poor patients, concessions in laboratory and radio diagnosis expenses and markedly reduced packages of treatment for deserving community in reproductive health and surgical problems. College hospital provides free 24 hours services for victims of road traffic accidents. College has a system of endowment fund, scholarships and facility for fee payment in deserving students.



MEDICAL EDUCATION

Indus Medical College, Tando Muhammad Khan has a fully functional Department of Medical Education headed by Prof. Dr. Muhammad Akbar Nizamani, trained from UIC Chicago and long experience of self-learning in Medical Education. Department of Medical Education runs a robust program of faculty development.

Indus Medical College, Tando Muhammad Khan has a lawn, walking track, cafeteria and facilities for sports. All expenditure for teaching material, procedures, students and patient safety during clinical training is born by the

institution. College remains in constant contact with Pakistan Medical & Dental Council to provide any information asked for including students drop out data.

College has already started a Paramedical institute which is recognized by Sindh Board of Technical Education to award two years diploma in multiple disciplines.

17. RESEARCH AND SCHOLARSHIP

Indus Medical College, Tando Muhammad Khan has a Director Research / ORIC who heads research advisory committee. This committee facilitates students and faculty in conducting research, arranges workshop on research methods and proposal writing. It disseminates information for the faculty and students for available opportunities in research.

Indus Medical College, Tando Muhammad Khan has a Research Cell headed by Prof. Dr. Jawaid Naeem Quraishi who is supported by members of faculty from different disciplines. Cell works for knowledge creation, evidence based practices and scholarly productivity. It provides opportunities for integrated, multidisciplinary research and applied research. Indus Medical College, Tando Muhammad Khan has a policy of hiring faculty members with interest in research and who have sufficient numbers of published articles in peer reviewed journals.

Scientific Research is encouraged in Basic Medical Sciences, Community Health, and Child Health, Reproductive Health and Nutrition, Behavioral and Psycho Social areas. Faculty has hundreds of original research papers published. Department of Medical Education and College Leadership have attended Multiple Conferences on Medical Education and have presented their work in the field of Medical Education like curriculum and innovative teaching methods.

Research is an integral part of curriculum as per Pakistan Medical & Dental Council Guidelines. College involves students to learn basic research tools like surveys for community health. We have organized workshops on research methods for faculty.

