REGULATIONS FOR THE AWARD OF THE FIVE YEAR JOINT NTU/IMPERIAL (LKCMEDICINE) MBBS DEGREE PROGRAMME

1. General Information
The Lee Kong Chian School of Medicine (LKCMedicine) MBBS will be awarded to any student who has completed the degree programme and passed examinations in accordance with the following Regulations and with other such Regulations for students of the LKCMedicine as may be applicable.

2. Conditions of Admission
Before admission to the LKCMedicine MBBS degree programme, a candidate must satisfy the general entrance requirements of the LKCMedicine.

3. Programme of Study
The LKCMedicine MBBS programme of study extends over 5 years. The Distinction/Merit/Pass/Fail grading system will be used.

3.1 Years 1 & 2
After an initial orientation week, Year 1 will consist of an 'Introduction to Medical Sciences' course, followed by 3 systems-based courses:

- Cardiorespiratory
- Renal & Endocrine
- Musculoskeletal & Skin

The courses will be subdivided into between 5 and 10 sequential 'clinical presentation' modules in which symptoms and scenarios are used to integrate the scientific basis of medicine with relevant elements of clinical practice.

Year 1 students will be required to take a formative test at the end of the Cardiorespiratory teaching block and examinations at the end of the year. There will be a revision period prior to examinations.

After an introductory course, Year 2 will consist of the same structure as Year 1, with 4 systems-based courses:

- GI, Blood & Infection
- Neuro, ENT & Eyes
- Reproductive Medicine & Child Health
- Mental Health, Ageing & Family
The courses will be subdivided into clinical presentation modules as in Year 1.

Year 2 students will be required to take a formative Objective Structured Clinical Examination (OSCE) at the end of the Neuro, ENT & Eyes teaching block and summative OSCE and written examination at the end of the year. There will be a revision period prior to the examinations.

In addition, the following courses will run throughout Years 1 & 2:

- Human Structure and Function (anatomy, histology, embryology, physiology, cell biology, genetics, biochemistry, pathology and microbiology)
- Medical Humanities
- Long Term Patient Project (LTPP)
- Scientific Enquiry & Special Study (SESS)
- Public Health & Epidemiology (PH&E)
- Professionalism, Ethics, Law, Leadership & Safety (PELLS)
- Basic Pharmacology*  

*Year 2 only

All projects, presentations, clinical logs and work-based placed assessments will be documented in a student portfolio.

Teaching methods will include interactive large group teaching, clinical teaching, team-based learning, small group seminars, and practical sessions.

The end of year final mark will be determined by performance in the examinations.

3.2 **Years 3 & 4**

After an Introduction to Year 3, students will undertake clinical postings in hospitals and polyclinics in a range of specialties. Prior to each series of postings, the modular courses in Years 1 & 2 will be adapted and extended as ‘Campus Teaching Week’ which will provide structured learning opportunities to revise and consolidate the relevant science and prepare students for clinical practice in each specialty.

Year 3 & 4 students will be required to take a formative Objective Structured Clinical Examination (OSCE) and summative OSCE and written examination at the end of the year. There will be a revision period prior to the examinations.

In Year 4, students will have an opportunity to undertake a Scholarly Project either to further clinical experience or to gain exposure to research.

Courses and projects will be undertaken specific to each clinical posting. All projects, presentations, clinical logs and work-based placed assessments will be documented in a student portfolio.
In addition, the following courses will continue throughout Years 3 & 4:

- Integrated Care
- Clinical Pharmacology
- Clinical Pathology
- Clinical Communication
- Professionalism and Ethics
- Patient Safety
- Practical Skills

3.3 Year 5
Students will undertake an elective period and a student-selected specialty attachment (selective). This will be followed by a revision course which will consolidate clinical knowledge prior to Finals, Part 1 (please see section 4.5 for further information). Following the examinations, students will undertake a period of supervised apprenticeship (rotational doctoring), during which time they will undertake workplace based assessments which will be documented in their portfolio. A Portfolio Assessment will take place following the completion of rotational doctoring.

4. Assessments & Examinations
Students in Years 1 & 2 will be formatively assessed via team-based learning and in-course assessments undertaken throughout the year, and examinations at the end of the year.

Students in Years 3 & 4 will be formatively assessed via workplace based assessments undertaken throughout the year, and examinations at the end of the year.

The end of year final mark will be determined by performance in the examinations.

The pass mark will be determined by the Ebel standard setting method for written examinations and by the Borderline Regression Method for OSCEs.

4.1 Team-Based Learning (TBL)

4.1.1 Years 1 & 2
The TBL courses in Years 1 & 2 are:
- Introduction to Medical Sciences^*  
- Human Structure and Function (anatomy, histology, embryology, physiology, cell biology, genetics, biochemistry, pathology, psychology* and microbiology)  
- Public Health & Epidemiology (PH&E)  
- Scientific Enquiry & Special Study (SESS)  
- Professionalism, Ethics, Law & Leadership and Safety (PELLS)  
- Basic Pharmacology*  

^Year 1 only  
*Year 2 only
Scores from the following TBL elements will form the final TBL mark:

- Individual Readiness Assurance Test (iRA)
- Team Readiness Assurance Test (tRA)
- Application Exercise (AE)
- Peer Evaluation (PE)

The pass mark for TBL will be determined by the Cohen standard setting method. Attendance is compulsory for all TBL sessions.

Students who miss a TBL session will be allowed to take iRAs. No marks will be awarded for the TBL sessions which were missed. Students with mitigating circumstances may appeal to the Board of Examiners for special consideration.

Students’ TBL attendance and performance will be monitored throughout to ensure that students who are struggling or have issues are supported and given the best opportunity to succeed at these assessments.

4.2 In-Course Assessments (ICA)

The ICA elements in Year 1 & 2 are:

- Anatomy, Physiology, Biochemistry, Pathology and Microbiology and Pharmacology* Practicals
- Integrated Clinical Practice (ICP)
- Long Term Patient Project (LTPP)
- Medical Humanities

*Year 2 only

Each element of ICA is independent and required to be satisfactory for progression. There will be no compensation between the ICA elements.

Attendance is compulsory for all ICA lessons.

Students’ ICA attendance and performance will be monitored throughout to ensure that students who are struggling or have issues are supported and given the best opportunity to succeed at these assessments.

4.3 Examinations

Students are required to pass the examinations in order to progress to the next year.

The examination(s) scheduled by LKCMedicine for all students shall be known as the main examination(s). The examination(s) scheduled by LKCMedicine for students who have failed the main examination(s) or missed the main examination(s) due to mitigating circumstances shall be known as the supplementary examination(s).
4.3.1 Entry Criteria

Entry to examination will be dependent on satisfactory attendance during the year and satisfactory completion of TBL and ICA. In Years 3 to 5, satisfactory performance in workplace based assessments must be demonstrated.

A student may be barred from entry to the examination if he/she has missed a substantial number of lessons (even with valid reasons for absence) as he/she is highly unlikely to be able to pass the examination.

In the case of illness, or other exceptional circumstances, students may be permitted to defer entry to the examinations. In these cases, students may be required to follow an extra course of study. If a student is prevented by illness or other adequate cause from entering an examination, independent verification and/or documentary evidence must be provided.

A student who informs the Assistant Dean of their respective Years in writing of the withdrawal of his/her entry before the date for the commencement of the examinations as prescribed by the School on the grounds of illness or other adequate cause for which evidence must be provided may at the discretion of the Board of Examiners not be regarded as having made an entry or re-entry.

All other students who withdraw from or do not attend an examination without providing evidence of satisfactory extenuating circumstances will be judged to have attempted the examination and failed.

Students who do not qualify for entry to the examinations may be requested to withdraw, repeat or defer the year.

4.3.2 Format of Examination Papers

4.3.2.1 Years 1 & 2

Examinations for Year 1 will consist of two written, integrated papers to assess Year 1 system-based courses:

- Examination 1 (3 hours): a written, integrated paper to assess Introduction to Medical Sciences, Cardiorespiratory and Embedded Courses (PELLS, PH&E and SESS)
- Examination 2 (3 hours): a written, integrated paper to assess Renal & Endocrine, Musculoskeletal & Skin and Embedded Courses (PELLS, PH&E and SESS)

Examinations for Year 2 will consist of two written, integrated papers to assess Year 2 system-based courses and an Objective Structure Clinical Examination (OSCE) to assess clinical competence:
4.3.2.2 Year 3

Examinations for Year 3 will consist of two written integrated papers to access Year 3 disciplines and an OSCE to assess clinical competence:

- Examinations 1 & 2: Two written, integrated papers to assess Year 3 disciplines
- Examination 3: A clinical examination (OSCE) to assess Year 3 clinical disciplines

Each written paper will comprise Multiple Choice Questions (MCQs). The number of questions that each subject/course contributes to the paper will be documented in an examination blueprint.

4.3.2.3 Year 4

Examinations for Year 4 will consist of two written integrated papers to access Year 4 disciplines and an OSCE to assess clinical competence:

- Examinations 1 & 2: Two written, integrated papers to assess Year 4 disciplines
- Examination 3: A clinical examination (OSCE) to assess Year 4 clinical disciplines

Each written paper will comprise Multiple Choice Questions (MCQs). The number of questions that each subject/course contributes to the paper will be documented in an examination blueprint.

4.3.2.4 Year 5

Finals examinations will be held in Year 5 and will be in two parts. Students are required to pass all Finals examinations in order to be awarded the degree.
Part 1, held in the first semester, will consist of 2 written examinations and an OSCE.

- Examination 1: written, integrated papers to assess Year 3 and 4 clinical disciplines including discipline-specific 'outcomes for graduates'
- Examination 2: written examination to assess prescribing
- Examination 3: clinical examination (OSCE) to assess Year 3 and 4 clinical disciplines including discipline-specific 'outcomes for graduates'

Students will be required to re-sit any failed Finals papers. Students who fail a re-sit examination will normally be required to withdraw from the programme. Students who fail a re-sit examination with mitigating circumstances will normally be permitted to repeat Year 4. A student who fails an examination after repeating the year will be required to withdraw from the programme.

Part 2 will consist of a review of the workplace based assessments undertaken during the period of rotational doctoring, documented in the students’ portfolios. Any student who does not demonstrate competence in clinical performance in their portfolio by the time of this review will not be permitted to graduate and will be required to undertake a period of remedial study followed by further review.

4.3.3 Supplementary Examinations

Students who fail the main examination(s) may be allowed to take the supplementary examination(s) or repeat the year.

Students who miss the main examination(s) due to medical reasons or other adequate cause may be allowed to take the supplementary examination.

Students who fail the supplementary examination with mitigating circumstances will normally be required to repeat the year, provided that they have not repeated a year earlier in the programme, but this is at the discretion of the Board of Examiners.

Students who are given the opportunity for an exceptional repeat of the year will be required to sit and pass all elements of assessments at the next available examination (this will include those who have taken the examinations the first time at the supplementary examination and then subsequently failed. i.e. if students take the examinations for the first time at the supplementary examination (due to illness perhaps) and fail, then they need to repeat the year)

Students who fail the main or supplementary examination after repeating the year will be required to withdraw from the programme.
Students are not normally permitted to repeat more than one year of the programme. If a student who has previously repeated a year fails a re-sit examination in a subsequent year, they will normally be required to withdraw from the programme.

Approved by LKCMedicine Academic Affairs Committee, 26 April 2016