Prospectus 2011

Postgraduate Course conducted by The Board of Study in Medical Administration for MSc/MD (Medical Administration) and

Board Certification in Medical Administration

POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

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M.Sc (MEDICAL ADMINISTRTATION) COURSE

The Board of Study in Medical Administration (hereafter referred to as the Board) will conduct a training programme in Medical Administration leading to the degree M.Sc (Medical Administration).

The objectives of the training programme will be as follows.

General Objective

The graduate of this programme will have competencies in managerial, advisory, supervisory, planning, research and communication responsibilities, so as to become efficient and effective administrators, within the health system in Sri Lanka. It is expected that they will be executing the above roles in order to make the health system meet the demands of the country.

Specific Objectives

At the successful completion of this course the graduates will be able to:

- Identify problems within the system and develop plans both on the long term and immediate basis, to remedy such problems by utilizing and mobilizing available resources within the broader framework of the Sri Lankan health policy.
- Undertake monitoring and evaluation of policies, programmes and implementing strategies, from time to time, by utilizing health systems and epidemiological

methodologies to provide feedback to different levels ranging from the community to policy makers.

- Establish efficient and effective channels of communication among different levels of health staff and various sectors so that the individual and group responsibilities are clearly known.
- Promote inter-sectoral and intra-sectoral coordination to ensure the provision of quality health care.
- Develop skills in supervising health teams to assure quality of work through a process of inquiry and corrective action.
- Keep abreast of recent advances in medicine through a process of continuing self-learning.
- Carry out the assigned and expected duties within an acceptable moral context, while upholding clearly defined social values.





MSc/MD Medical Administration

REGULATIONS AND GUIDELINES

1. ELIGIBILITY FOR SELECTION

Candidates who are medical graduates shall;

- a) Be registered in the Sri Lanka Medical Council
- b) Have Three (03) years post-internship experiencein posts acceptable to the Board of Study

Candidates who are dental graduates shall;

- c) Be registered in the Sri Lanka Medical Council
- d) Have five (05) years experience in posts acceptableto the board of study

2. SELECTION EXAMINATION FOR MSc (MEDICAL ADMINISTRATION)

The qualifying examination consists of a theory paper with two sections, A & B.

The Section A shall have **3** SAQ questions on Basic Sciences in Medical Administration and Management

Section B shall have **2** SAQ questions on application of Management Sciences in Health.

The duration of the paper shall be **three hours**. Each question will be marked out of 20 by two examiners independently and average mark will be taken.

The pass mark shall be 50%. The number of trainees to be enrolled to the training prorgramme each year will be decided by the BOS and indicated in the advertisement calling for applications. The selection will be based on merit.

3.TRAINING PROGRAMME FOR MSc (MEDICAL ADMINISTRATION)

The duration of the training program will be one year (12 months) and will consist of 2 components

- a) Course work
- b) Dissertation

3(a) Course work

The course work will include the following units and sub-units. A minimum of 80% attendance at all learning activities in each module in the course is required to qualify to sit the examination.

Unit 1 - Introduction

- Sub Units1.1Health and development
 - 1.2 Health and health related national policies

Unit 2 - Introduction to Basic Sciences

Sub Units2.1Statistics2.2Epidemiology2.3Demography2.4Health Economics2.5Research Methodology2.6Computer Applications2.7Behavioral Sciences

Unit 3 - Planning and Development

- Sub Units 3.1 Management information systems
 - 3.2 Planning, monitoring and evaluation

Unit 4 - Management Sciences

Sub Units	4.1	Theory and practice of management.
	4.2	Organizational behavior
	4.3	Human resources development and
		management
	4.4	Financial Management
	4.5	Management of physical resources
	4.6	Communication and public relations
	4.7	Office management
	4.8	Public administration

Unit 5 - Management of Community Health Services

Sub Units	5.1	Management of public health services
	5.2	Health education
	5.3	International health and the related
		agencies
	5.4	Community participation in health care

Unit 6 - Management of Patient Care Services

Sub Units	6.1	Management of Hospitals.
	6.2	Disaster management
	6.3	Update in clinical medicine & health
		technology

Sub Unit	Objective	Learning Context (Method)
1.1 Health & Develop- ment	1. Describe Issues and Perspective of Human Development	 Lecture / Discussions Small group assignments to interview
	2. Identify and describe the inter relationships between the different sectors in development	 Secretaries of development sectors Visit to development project areas. Interviews with develop. Officers
	3. Describe the re- lationships between health & Human De- velopment	 Worker Communi- ty members. Group work and presenta- tion of reports. Interviews with
	4. Describe an Appro- priate Framework for Health in the context of National Develop- ment	Health Profession- als and Practition- ers from different health and health related disciplines
2.1 Statistics	1. Describe the role of statistics in health Administration	 Group Discussions Field exercises Class exercises
	2. Describe the na- ture and type of data needed to support the managerial process for health development. How data are collected and the various scales of measurement	Computerized record linkage Lecture Lecture Class Ex- ercise Practical exercise

3. Describe the various ways of reducing and presenting and the purpose of doing so

4. Define and calculate the indices of central tendency and location, their uses, interpretations and limitations.

5. Define and calculate various measures of variability, their uses, interpretations and limitations.

6. Describe concepts of probability sufficient to serve as background for the use of binomial and normal probability distributions and their uses.

7. Describe the concepts of sampling error and how sampling error needs to be taken into account when ever inductive inferences are made from sample data

8. Describe the sampling method that could be used in different situation

9. Describe the mean- ing and application of tests of significance and their role in statis- tical inference.	
10. Undertake some of the tests of significance, sufficient to carry out the tests when required with the help of refer- ence materials.	
11. Describe the the- ory and methodology of the chi-squared test sufficient to carry out the test when required with the help of refer- ence materials.	
12. Describe the nature of statistical evidence for relationship be- tween different char- acteristics or event in a population and in- terpret the statistical methods and indices employed to describe and measures such re- lationships	
13. Describe the test of significance that may be used for two or more groups of ordinal data (non parametric)	

	14. Chose an appropri- ate significance test for different types of data and to evaluate other choices of statistical procedures	
2.2 Epidemiology	1.Describe the con- cepts and scope of epidemiology	 Lecture Discussions Exercises Field Visits
	2.Describe and com- pute measures of disease frequency	• Demonstrations
	3.Describe measures of effect	
	4.Organize epidemio- logical data in a mean- ingful manner.	
	5. Monitor the health of the communities, and take action to pro- tect public health	
	6. Plan and conduct a epidemiological study, draw appropriate con- clusions from results of the study and discuss the quality of data and discuss causality	
	7.Identify and investi- gate an outbreak	
	8. Describe a screening programme	

	9. Describe Laboratory Surveillance methods	
2.3 Demography	1. Calculate basic de- mographic measures	Lecture / Discussions
	2. Estimate population and make projections	
	3. Describe the popula- tion , health and devel- opment interactions	
2.4 Health Economics	 Describe core concepts as related to health sector with special emphasis on :- (a) the role of markets in health care (b) the role of the state in health care 	 Lecture to intro- duce concepts Discussion based on empirical evi- dence Case studies Study of the Litera- ture
	2. Describe health financing; issues of funding and pricing, sources, alternatives, impacts.	
	3. Describe the issues involved in planning the health care sys- tem taking resource constraints and equity issues explicitly into account.	
	4. Describe economic evaluation methods applicable to health care systems.	

	5. Describe the link be- tween Growth Devel- opment and Health6. Describe potentials	
	for economic research on health sector issues.	
2.5 Health System Re- search Methodology	1. Describe the pur- pose, scope, content and characteristics of HSR	 Lecture / Discussions Individual exercise
	2. Draft a HSR project proposal	
2.6 Computer applica- tion	1. Describe the poten- tial uses of computers in Health Administra- tion	 Lecture / Discussions Case studies Hands on experi-
	2. Apply basic P.C. software in health administration	ence on computers
2.7 Behavioral Sciences	After completing the tasks of this module the learners should be able to critically discuss and apply concepts relating the behaviors of patients, community, physi- cians, administrators and other health pro- fessionals to planning and implementing curative, preventive promitive and reha- bilitative health pro- grammes and estab- lishing Health Policy.	 Lecture / Discussions Presentations

3.1 Management Information System	1. Describe the role of information in health management	Lecture discussionGroup work
	2. Describe the main elements /steps in de- signing a Management Information System	
	3. Describe relevant methods of data collec- tion and the problems therein.	
	5. Present analyzed data	
	6. Interpret analyzed data	
	7. Design methods of information feedback	
	8. Describe the practi- cal experiences with specific M.I.S	
3.2 Planning, Moni-	A. PLANNING	• Lecture discussion
toring & Evaluation of Health Services	1. Describe the con- cepts, principals and models of planning	Group workCase studies
	2. Assess the cur- rent health situation and the future health scenario	
	3. Identify health, health related and health system prolems	
	4. Prioritize the prob- lems	

	5. Set feasible objetives and targets	
	6. Defend selection of strategies	
	7. Undertake con- straint analysis	
	8.Prepare feasible estimates of resources required to achieve the set objectives of a programme / project	
	9.Draft a project pro- posal	
	B. MONITORING	
	1. Describe the con- cepts of monitoring & control and the role of monitoring in health management	
4.1 Theory and Prac- tice of Management	1. Describe the basic concepts, principals and process of man- agement	 Lecture discussion Group discussion Case studies Seminars Panel discussion
	2. Describe the prin- cipals and process of organizing work	
	 3. Describe the processes, procedures, methods and techniques of problem solving and decision – making 	

	4. Describe the pro- cess, procedures, meth- ods and techniques of problem analysis	
4.2 Organizational Behavior	 Describe the process and procedures of developing leadership motivating staff Team building Conflict resolution and Managing executive stress 	 Lecture discussion Case studies Role plays
4.3 Human Resources Development and Management	1. Describe the pro- cess and procedures in planing for health manpower	 Lecture discussion Group discussion Case & role play Presentation
	2. Estimate require- ments of selected categories of health manpower	
	3. Design in-service training activities	
	4. Describe the pro- cess and procedures of supervision	
	5. Describe the appli- cation of performance appraisal in the man- agement of human resources	

4.4 Financial Manage-	Describe the process,	• Lectures
ment	methods and proce-	Case studies
	dures of budgeting control of and expend- iture of finances	• Exercises
4.5Management of Physical Resources	1. Describe the pro- cess and procedures of managing drugs and such other supplies	Lecture discussionCase studiesRole plays
	2. Describe the pro- cess and procedures of managing equipment	
	3. Describe the pro- cess and procedures of managing vehicles	
4.6 Communication & Public Relations	1. Describe the impor- tant process methods and the techniques for effective communica- tion within the Organi- zation	Lecture discussionCase studiesRole plays
	2. Describe the pro- cess and procedures of effective Public Rela- tions	
4.70ffice Management	1. Describe the pro- cess, methods, tech- niques and procedures of managing an of- fice so as to facilitate achievement of its objectives	LecturesExercises

4.8Public Administra- tion	Describe the consti- tutional framework, policies and trends and institutional agree- ments, regulations and the processes governing public administration	 Lectures Discussions Case studies Exercises
5.1Financial Manage- ment	 Describe the devel- opment of the public health services (PHS) in Sri Lanka Describe the mana- gerial strategies, pro- cesses and procedures applied in implantation of public health ser- vices in the Ministry of Health Describe the or- ganization, range, quality and quantity of PH services deliv- ered by organizations other than Ministry of Health in Sri Lanka Describe the com- mon social and health problems in childhood and the methods of prevention Describe the nutri- tional problems in Sri Lanka and their causes Describe the health problems in special population groups 	 Lecture discussion Student Presentations

	7. Identify the en- vironmental factors that influence health and indicate services available for improving health through envi- ronmental control	
	8. Evaluate selected Public Health Pro- grams	
5.2 Health Education	1. Define and discuss the process of health education including the basic principles	Lecture discussion
	2. Describe the basic principles underlying the learning process	
	3. Discuss human mo- tivation	
	4. Describe the com- munication process.	
	5. Discuss the use of visual aids in health education	
	6. Describe the change process	
	7. Describe as to how to plan implement and evaluate health education programme	
5.3International Health and Related Agencies	1. Describe the health issues related to inter- national travel	 Lecture discussion Visit to port health office

	2. Describe the Inter- national Health regula- tions	
	3. Describe the health hazards of internation- al trade	
	4. Describe the trans boundary and interna- tional Health problems	
	5. Describe the role of international agencies in health services	
5.4Community Partici- pation in Healthcare	1. Describe the poten- tial within the commu- nity for development activities (Agriculture, Religious, Social etc.) in general and health activities in particular	 Lecture discussion Case studies Exercises
	2. Describe community participation in health related programs and activities	
6.1 Management of Hospitals	1. Describe the his- tory of development of modern hospitals.	 Lecture discussion Self studies Individual Exer-
	2. Monitor the effec- tiveness of a hospital.	cises
	3. Describe processes and considerations in planning of hospital services.	
	4. Evaluate selected hospital services.	

	5. Work unit cost of	
	hospital services.	
	6. Describe the pro- cess of establishing a Quality Assurance Progremme (QAP) in a hospital	
	7. Describe the pro- cesses and procedures of Medico Legal work in hospital	
	8. Describe the pro- cesses and procedures of medical ethics.	
	9. Describe the pro- cesses and procedures of making a hospital as a genuine community institution	
	10. Demonstrate skills in solving problems	
6.2Disaster Manage- ment	1. Prepare an Action Plan to deal with defer- ent types of disasters	 Lecture discussion Presentation Group work / plenary
6.3Public Administra- tion	1. Describe the current clinical and technolog- ical developments and identify the managerial implications of the new developments for the health system in Sri Lanka	• Lectures

Training methods

The learning activities during course work will include;

- (a) Lecture/discussions, tutorials and practicals
- (b) Individual and group assignments

(c) Field exercises in actual work situations (health care institutions and the community)

3(b) Dissertation

Candidates shall prepare and submit a dissertation (See annex 1) on a topic and proposal approved by the Board of Study. The completed dissertation should be submitted at least one month before the Final Assessment/MSc Examination.

4. EVALUATION (Formative/continuous assessments)

There are 21 course sub-units in the course. At the completion of each unit an evaluation will be done by a true/false MCQ Paper. There shall be 10 questions in each paper to be answered in 30 minutes. Minus marks will be awarded for each question but will not be carried forward (minimum 0 and maximum 5 for each question) Each MCQ paper shall be marked out of 50. The total marks for all MCQ Papers shall be converted to a mark out of 200.

5. MSc EXAMINATION (final assessment)

There shall be three Parts in the examination:

Part I - Written examination Part II - Dissertation Part III - Oral examination

Part I - written examination

This will consist of 2 sections: A and B.

- Section A: Basic Sciences in Medical Administration and Management.
 Paper 1- 5 Essay Questions – 3 hours duration Paper 2- 15 SAQ – 2 hours duration
- Section B: Application of Management Sciences in Health Paper 1 - 5 Essay Questions – 3 hours duration Paper 2 - 15 SAQ – 2 hours duration

<u> Part II – Dissertation</u>

Please see annex I for the format and marking scheme. The dissertation will be marked by two examiners independently.

<u> Part III – Oral Examination</u>

This will be based on the dissertation and related health management issues.

There shall be two examiners and the duration shall be 30 minutes

6. ALLOCATION OF MARKS

Formative Assessment (MCQ Papers)		200
Final Assessment		<u>800</u>
Written Examination	400	
Dissertation	250	
Oral Examination	<u>150</u>	
	800	

Total- 1000

***Allocation of marks for the repeat examination:* (*in-course MCQ Marks will not be included*)

Written Examination	600
Written Dissertation	250
Oral Examination	<u>150</u>
	1000

7. REQUIREMENT TO PASS THE MSc. EXAMINATION

An overall average score of fifty percent (500 marks from 1000 marks) AND a minimum score of 40 percent in each Section A and B of the written examination AND a minimum of 50% for the dissertation AND A minimum of 40% for the oral examination AND a minimum of 40% for the continuous assessment (shall not be a requirement for the repeat examination)

8. AWARD OF THE DEGREE OF MSc (MEDICAL ADMINISTRATION)

A candidate who shall qualify the Final Examination (as given above) will be awarded the degree of MSc (Medical Administration).

9. FACULTY RESOURCE-

Course unit advisors, lecturers and other resource personnel will be appointed by the Board of Study. The examiners will be appointed by the Senate of the University of Colombo on the recommendation of the Board of Study and approved by the Board of Management.

- **10.** Any section of this prospectus may be changed from time to time at the discretion of the Board of Study with the approval of the Board of Management.
- **11.** With regard to the interpretation of the clauses in the prospectus the decision of the Board of Management will be final.

Annex 1

DISSERTATION

Guidelines for the candidates. MSc (MEDICAL ADMINISTRATION)

- 1. The title of the dissertation, along with the statement of objectives and the usefulness and the relevance to Sri Lanka should be submitted to the Board of Study for approval within 10 weeks of commencement of the course. The dissertation should be on a research study or a management related project. It would be necessary that the dissertation contains data gathered scientifically from the candidates own investigations and not limited to data from available literature.
- 2. On approval of the title, the Board of Study will appoint a supervisor. The supervisor shall be consulted and guidance obtained at all stages of the research project and during the preparation of the dissertation.
- 3. The candidate shall submit the dissertation to the Director, PGIM within one month of completing the written examination.
- 4. It is recommended that the dissertation must be between 8000 to 12000 words.

It should be type-written using double spacing on good quality A4 size paper on one side only. A margin of not less than 44 mm should be allowed on the left and not less than 25mm on the top, right hand side and the bottom. Chapter headings should be capitalized and centered, whilst subdivision headings should be typed from the left hand margin in lower-case type and underlined. Tables and figures should be placed as near as possible to the part of the text to which they refer. The contents of the dissertation should be given under the following headings. The marks are indicated in brackets.

- 1. Title (05)
- 2. Author's name and address
- 3. Summary or synopsis (10)
- 4. Table of contents
- 5. List of tables
- 6. List of figurers
- 7. Introduction (20)
- 8. Objectives (15)
- 9. Review of literature (20)
- 10. Materials and methods (50)
- 11. Results (40)
- 12. Discussion (including limitations) (45)
- 13. Conclusion and recommendations(if any) (10)
- 14. Acknowledgements
- 15. References (15) (Harvard system should be used)
- 14. The overall presentation (20 marks)
- 5. Three copies of the dissertation should be submitted loose bound in the first instance, to enable corrections, if any, to be made. When the dissertation is accepted, it should be bound in hard cover with author's name, the degree and year printed in gold on the cover and on the spine (top to downwards). The cover should be in black. The front cover should carry the title on top of the author's name in the center and the year at the bottom all printed in gold. Three copies of the dissertation should be submitted to the Director, PGIM. Two copies shall be the property of the PGIM while the third copy will be returned to the candidate.

Assessment procedure and criteria:

6. If the candidate fails the MSc examination, the same dissertation may be submitted at a subsequent examination if the mark obtained for the dissertation is 50% or more and that mark will be carried forward to the next examination. However the candidate may make appropriate revisions and resubmit it at the subsequent examination for fresh marking. Candidates scoring less than 50% marks for the dissertation shall submit at the subsequent examination a fresh or modified dissertation as prescribed by the examiners.

1. Procedure:

- a. The examiners will submit dissertation marks to the Director/PGIM two weeks prior to the date of the Results Board.
- b. A Pre results Board 1 comprise of the Chief Examiner, one member or more members representing Medical Administration Examination Board appointed for the MSc Examination, as recommended by the Board of Study.
- c. The Director, PGIM will convene a meeting of the members of the Pre results Board 1 to peruse the marks allocated for each dissertation by the two examiners, schedule a date to hold the Pre Results Board 2 and recommend the dissertation examiners to be invited for Pre Results Boards 2.
- d. At the Pre Result Board 2 marks awarded by the third examiner will be considered and for it the examiners participated in the Pre Result Board 1 and the third examiner/s will be invited.

2. Pass / Fail Status:

- a. A candidate will pass the dissertation when both examiners have assigned 50% or more. The final mark will be the average of the marks assigned by the two examiners.
- b. A candidate will fail the dissertation when both examiners have assigned less than 50% of marks. The final mark will be the average of the marks assigned by the two examiners.

- c. When a candidate has been failed by both examiners as given in 2.b above, the PGIM should scrutinize the examiner comments to ensure that the comments are given in detail and the errors/ deficiencies specified and forward same to the candidate. If the examiner comments are not sent or inadequate PGIM should request examiners to submit detailed comments.
- d. Where a candidate has been assigned to the category of pass by one examiner (50% or more) and, fail (less than 50%) by the second examiner, a third examiner will be appointed to assess and award a mark for each such dissertation. The office copy of the dissertation will be sent by the PGIM for re assessment immediately and the third examiner will be invited to attend the Pre Results Board 2 with the assessment marks.

3. Method to decide the pass/fail status and the final mark of the candidate as described in 2.d above

The final mark to decide on pass/ fail status of the candidate under 2d will be based on the marks assigned by the three examiners. If two of the three examiners have assigned \geq 50% of marks then the candidate passes the examination and if two of the three examiners have assigned less than 50% of marks, then the candidate fails the examination and the final mark assigned to the dissertation will be the average of marks assigned by the two examiners who show concurrence as described above.

- 4. Resubmission of dissertations of candidates who have failed to obtain a pass mark of 50% or more from the dissertation, where the overall aggregate for the examination is 50% or more, with minimum required marks for theory, clinical and oral components. and:
 - A. A candidate who has obtained **between 45% and 49% for the dissertation** will resubmit the dissertation within three

months after carrying out corrections as recommended by the examiners, and in accordance with the guidelines on dissertation of the Board of Study and the guidance of the supervisor. The resubmitted dissertation will be assessed by the first two examiners applying the same rules and regulations applicable for the main examination as mentioned above. If the candidate does not obtain pass marks at this attempt he/she has to resubmit the dissertation at a subsequent main examination after fulfilling the criteria stipulated in this section.

- B. A candidate who has obtained **less than 45% but 30% or more for the dissertation** will be exempt from sitting theory, clinical and oral components of the examination at the subsequent attempt subject to the following condition in respect of the dissertation marks:
 - a. The dissertation mark between 40-44%: use the same data and rewrite the dissertation carrying out corrections as recommended by the examiners, in accordance with the guidelines on dissertation of the Board of Study and guidance of the supervisor.
 - b. The dissertation marks between 30-39%: collect new data under the same topic and rewrite the dissertation carrying out corrections as recommended by the examiners, and in accordance with the guidelines on dissertation of the Board of Study and guidance of the supervisor.
- C. Resubmitted dissertations as stipulated in 4B a and b above will be assessed only at a subsequent main examination
- D. A candidate who has obtained **less than 30% for the dissertation** will sit the theory, clinical and oral components of the examination and submit a new dissertation under a different topic at a subsequent main examination.