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**POTGRADUATE INSTITUTE OF MEDICINE  
UNIVERSITY OF COLOMBO, SRI LANKA**



**Prospectus of  
The Postgraduate Diploma  
In  
Health Sector Disaster Management**

**2012**

**Speciality Board In Health Sector Disaster Management**

**BOARD OF STUDY IN MULTIDISCIPLINARY STUDY COURSES**

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## **Postgraduate Diploma in Health Sector Disaster Management**

### **Background to the programme:**

The Board of study in Multidisciplinary Study Courses (here in after referred to as the Board) will conduct a training programme and examinations leading to the Postgraduate Diploma in Health Sector Disaster Management.

The Postgraduate Diploma in Health Sector Disaster Management is aimed at preparing the trainee in coordinating disaster preparedness and response activities, ranging from risk assessment, capacity building, mass casualty management, primary trauma care, recovery and rehabilitation and all other healthcare management activities and administrative activities pertaining to disaster management. It would serve as a comprehensive training programme in Health Sector Disaster Management.

Disaster Management is a field that involves many disciplines both within and outside the Health Sciences. Health sector, including public health/clinical/para-clinical services and forensic medicine, plays an indispensable role in the field of disaster management.

Ever increasing vulnerable populations, resource constraints, expectations of affected persons, and complexity of procedures are considered among the key factors that make the job of the health worker increasingly difficult. In this context, the speed and effectiveness of the health services in providing the services to the people of affected communities, to a large extent, determine the probability of their survival and returning back to normality. Therefore, adequate preparedness for disasters and effective coordination of responses are extremely important in successful management of disasters. Increased awareness and improved competencies of health managers can make a great difference in the efficiency and effectiveness of the health sector disaster management.

### **1. PROGRAMME AIMS**

This programme aims to facilitate the medical officers serving as disaster management focal points and other related posts to improve the competencies in disaster management, especially, with respect to the planning and organization of health services in response to disasters. In addition, this will also pave the way for medical officers to be promoted to grade I.

### **2. LEARNING OUTCOMES**

At the end of this programme, the trainee shall be able to

1. identify the hazards and assess the risks in the work environment

2. assess institutional capacities to respond to the perceived risks and to identify gaps
3. prepare and implement preparedness plans based on realistic risk and capacity assessment
4. facilitate or to plan, organize and carryout research related to health sector disaster/emergency management
5. be in command of groups with varying interests
6. work under difficult conditions with limited resources
7. maintain positive interpersonal relationships in all situations
8. make realistic assessment of damages and needs
9. apply the principles of disaster/emergency management to achieve the objectives in the response phase

### **3. ENTRY CRITERIA**

- a) A medical degree registered with the Sri Lanka Medical Council.
  - b) Satisfactory completion of internship acceptable to the Sri Lanka Medical Council;
  - c) Satisfactory completion of one year of post internship in medical practice in a University/Public Sector Institution /Private sector in Sri Lanka acceptable to the PGIM as at the date of closure of applications
- Or
- d) A Bachelor of Dental Surgery (BDS) degree registered with Sri Lanka Medical Council with three years dental practice after graduation as at the date of closure of applications.

### **Note:-**

In respect of (c) and (d) above, those who have availed maternity or sick leave during this one year period could be considered eligible provided they have completed 80% of the post intern year.

#### 4. SELECTION PROCESS

- a) The PGIM will place an advertisement to select a pre-determined number of candidates (as determined each year by the Board and Ministry of Health).
- b) Selection Examination

Applicants fulfilling the minimum eligibility criteria will have to sit for a selection examination. The selection examination will cover basic principles and practical aspects of health sector disaster management. E.g. What is a disaster/emergency, hazards, risk assessment, capacity assessment, mass casualty management, addressing common public health problems etc.

**The selection examination shall consist of a Theory Paper with 05 Structured Essay Questions. Duration of the paper will be three hours. The Paper will be marked out of 100 and each question shall carry 20 marks.**

Each question will be marked independently by two examiners. **The Pass Mark shall be 50% or more.** The candidates who pass the examination will be selected based on merit to predetermined number of the approved training posts.

#### 5. INTAKE

The intake will be twenty or the indicated number in the advertisement. This number will depend on the needs of the country as determined by the Ministry of Health and the available training facilities as determined by the PGIM. There shall be predetermined number of approved training posts for the non-state sector candidates who pass the selection examination who will be selected on merit.

#### 6. DURATION OF TRAINING

One year (fulltime in-service)

#### 7. FORMAT OF TRAINING PROGRAMME

##### 7.1 Description

The course will be conducted by a teaching staff comprising of members from the Universities of Sri Lanka, Ministry of Health and other relevant agencies. The course is designed to be conducted as 12 weeks of class room work, 8 weeks of clinical attachments and 6 months of field training. This will be followed by a summative assessment during the remaining 4 weeks.

## 7.2 Theory (Class Room Sessions)

The class room sessions will be conducted as a modular course, with 12 modules spanning over the first 10 weeks (20 credits). It will consist of lectures, student presentations, tutorials and field visits to institutions.

Course will consist of following 12 modules which shall cover the theory component. Details of the curriculum are given in the Annex A:

1. Basic principles of disaster management
2. Trauma care
3. Medical care
4. Medico-legal and ethical aspects
5. Psychosocial health
6. Rehabilitation
7. Reproductive & child health and nutrition
8. Environmental health
9. Statistics and Epidemiology
10. Managerial aspects
11. Information management
12. Miscellaneous topics

## 7.3 Clinical Attachments

Classroom sessions will be followed by 8 weeks of full day clinical attachments before starting the field training.

This training will be in the form of rotational attachments in selected Training Units of the Ministry of Health, UN Organizations and Non-Governmental Organizations involved in Health Sector Disaster Management approved by the Specialty Board (listed in annex B). At the end of the rotational attachments the student should be able to

1. Identify the units within the health sector which play a role in disaster management
2. Describe the different roles played by each in disaster management

3. Understand the coordination mechanisms between the units in a disaster/emergency

The candidates will be provided with a signature card (Annex C) which will have to be submitted to the Board immediately following the clinical attachments.

#### **7.4 Field Training**

Trainee will be attached to a training institution selected by the Board in consultation with the Director General of Health Services for a period of 6 months (list of training institutions is attached in annex D). This will be a full time in service attachment where the trainee will have to discharge the duties and functions specified to the post to which the candidate is attached and will not be a mere observer. The training centers will be selected by the Board each year and the allocation of the trainees will be based on merit of the selection examination.

During this period the trainee is expected:

- i. To carry out a risk assessment on the institution to which he/she will be attached and submit the approved report to the Board.
- ii. To prepare, get approval and submit to the Board a response plan of the institution based on the risk assessment.
- iii. To plan, organize, carryout and prepare a report on a drill/simulation exercise based on the disaster preparedness and response plan under the supervision of a person approved by the Board.
- iv. To conduct an outbreak investigation in consultation with Epidemiology Unit of Ministry of Health
- v. To carry out a research and submit a research report as specified in paragraph 7.5.

Entire group of trainees, as a team, will be deployed to serve in a real time disaster/emergency, if occurred during the attachment period (excluding fulltime lecture period). If not, there will be a single simulation exercise involving the entire group of trainees. Role of each trainee in this exercise should be mentioned in the group report submitted to the Board.

Trainees attached to various training institutions will be called to attend seminars, workshops and other programmes related to disaster management that may take place during the attachment.



During the field training, the trainee will be supervised by the Head of the Institution and a supervisor approved by the Board. During the field training, trainees are supposed to attend the progress review meetings conducted by the course coordinator appointed by the Board at regular intervals. The student will have to provide the Board with three progress reports signed by the head of the institution, in the format given in annex E at the end of 2<sup>nd</sup>, 4<sup>th</sup> months and at the end of the attachment.

### 7.5 Research Project leading to a Project Report

The trainees will carry out a research project on a selected topic approved by the Board. The research proposal has to be approved by the Board and the research study has to be conducted under the supervision of a supervisor appointed by the Board. The supervisor should submit to the board a progress report after the data collection stage. The completed research report on the project (minimum number of words 3000) has to be submitted two months before the Postgraduate Diploma Examination.

### 7.6 Calculation of Credits

The various components of the course consist of learning activities with credit values as shown in table 1.

Table 1: Training activities and credit allocation

Activity	Number of hours	Number of credits
Clinical attachment	30 X 8 = <b>240</b> (1 credit =45 hours)	5
Risk assessment at the institution	3 weeks preparation 30 X 3 = <b>90</b> (1 credit =45 hours)	2
Preparation of the disaster management plan	23 working days 23 X 6 = <b>138</b> (1 credit =45 hours)	3
Drill/simulation at the institution	23 working days 23 X 6 = <b>138</b> (1 credit =45 hours)	3
Single simulation/actual disaster – entire group	10days X 3 disasters/ simulations 30 X 6 = <b>180</b> (1 credit =45 hours)	4
Progress review activities	3 reviews X 10 days of preparation for each review 30 X 6 = <b>180</b> (1 credit =45 hours)	4
Lectures and other class room activities	300 hours(1credit =15 hours)	20
	Total credits	41

## 8. IDENTIFICATION OF TRAINERS

Teaching will be done by Trainers approved by the Board/Board of Management of the PGIM/Senate of the University of Colombo and in facilities such as accredited wards, institutions and field training centers. The libraries will be used to facilitate learning. Regular small group discussions, and audit meetings will be held.

The Trainers will be Board Certified Consultants with MD, employed at the Ministry of Health or the Universities and other experts, approved by the Board.

## 9. FORMAT OF ASSESSMENTS

### 9.1 Eligibility to sit for Postgraduate Diploma Examination

Eligibility to appear for this examination shall be,

- Obtaining a minimum of 30 credits by attending teaching activities described in the table above
- Submission of satisfactory progress reports
- Obtaining a minimum of 80% attendance for the theory component (class room sessions)
- Submission of the research report

### 9.2 Postgraduate Diploma Examination

Final Examination will be held at the end of the course. There will be four components:

1. Theory Paper – 200 marks  
The paper shall have 5 SEQ type questions to be answered in 3 hours.
2. Practical examination will be held in the form of Objective Structured Clinical/Practical Examination (OSCE/OSPE) – 100 marks Number of stations -10 as described in table 2.  
Duration of each station- 5 minutes  
Number of examiners - 3 examiners for all 10 stations

Table 2: Details of OSPE/OSCE Stations

Topic	No of Stations
Basic principles of disaster management	1
Trauma care and medical care	2
Medico legal and ethical aspects	1
Psychosocial health and Rehabilitation	1
Reproductive health, Child health and Nutrition	1
Environmental health	2
Managerial aspects and Information management	1
Miscellaneous topics	1
Total	10

3. Viva Voce – 100 marks

This will be done by a viva board with two examiners over a period of 15 minutes.

4. Evaluation of the research project report– 100 marks

This will be done by two independent examiners

**10. REQUIREMENTS TO PASS THE POSTGRADUATE DIPLOMA EXAMINATION**

To pass the Postgraduate Diploma Examination the candidate should obtain:

- 50% or more of the grand total (250/500)  
AND
- 50% or more for theory (100/200)  
AND
- 50% or more for the practical examination (50/100)  
AND
- 50% or more for the research project (50/100)

**11. FAILED CANDIDATES**

- a) A candidate failing to achieve 50% or more of the grand total but obtain 50% or more for theory and practical examination and research project report, shall be required to sit only the viva voce component at the next examination
- b) A candidate who shall achieve 50% or more of the grand total but failing to achieve 50% or more for theory/practical/research project report is required to sit for only that component/s at the next examination.

- c) If the candidate has to sit for the research project report component, the candidate shall attend to the corrections recommended by the examiners and resubmit the corrected research project report for the next examination.

## 12. NUMBER OF ATTEMPTS

A candidate shall be given a maximum of six attempts over a period of 8 years whichever comes first to complete the final assessment from the date of commencing the course.

## 13. AWARD OF POSTGRADUATE DIPLOMA IN HEALTH SECTOR DISASTER MANAGEMENT

Candidates who have fulfilled minimum eligibility criteria and registered as a postgraduate student by the payment of the prescribed fees and successfully completed all the examinations and other assessment requirements will be awarded the **Postgraduate Diploma in Health Sector Disaster Management**.

## 14. RECOMMENDED READING

1. Wisner B. and Adams J. (ed.) (2002). *Environmental Health in Emergencies and Disasters*. Geneva: WHO  
[Click here to view the document.](#)
2. Holtermann K. A. and Gonzalez A. G. R. (ed) (2003) *Emergency Medical Services Systems Development*, WHO-PAHO  
[Click here to view the document](#)
3. World Health Organization (2000) *Management of Nutrition in Major Emergencies*, WHO  
[Click here to view the document](#)

4. United Nations High Commissioner for Refugees (1999) *Reproductive Health in Refugee Situations*, UNHCR

[Click here to view the document](#)

5. The Sphere Project (2011) *Humanitarian Charter and Minimum Standards in Disaster Response*. The Sphere Project

[Click here to view the document](#)

6. Noji E. K. (ed) (1997) *Public Health Consequences of Disasters*, Oxford University Press

[Click here to view the document](#)

## Annexes

### Annex A

#### Modules included in the Postgraduate Diploma in Health Sector Disaster Management

Module	Delivery mode	Duration	Credits
Basic principles of disaster management	Lecture discussions SGD Visits to institutions	1 week	2
Trauma care	Lecture discussions SGD Visits to institutions	2 ½ days	1
Medical care	Lecture discussions SGD Visits to institutions	2 ½ days	1
Medico-legal and ethical aspects	Lecture discussions SGD Visits to institutions	2 ½ days	1
Psychosocial health	Lecture discussions SGD Visits to institutions	2 ½ days	1
Rehabilitation	Lecture discussions SGD Visits to institutions	2 ½ days	1
Reproductive & child health and nutrition	Lecture discussions SGD Visits to institutions	1 week	2
Environmental health	Lecture discussions SGD Visits to institutions	1 week	2
Statistics and Epidemiology	Lecture discussions SGD Visits to institutions	2 weeks	4
Managerial aspects	Lecture discussions SGD Visits to institutions	1 week	2
Information management	Lecture discussions SGD Visits to institutions	2 ½ days	1
Miscellaneous topics	Lecture discussions SGD Visits to institutions	1 week	2

## DETAILS OF LEARNING MODULES

### Module 1: Basic principles of Disaster Management

Duration: 1 week

Time slots: 1 ½ hours X 20

Module No	Objectives	Lesson Content	Content Area	Activity
01	Basic Principles of Disaster management	Basic concepts of disaster management	Describe the relationship between hazards and vulnerability in relation to the management of health risks of hazards.	Lecture
			Describe the impact of hazards and emergencies on public health, both communities and specifically health services.	Lecture
			Discuss the roles of the health and other sectors in managing the health risks due to different hazards.	Lecture
			Appreciate the importance of the roles of the Health sector Emergency Manager in managing health risks.	Lecture
		Risk assessment	Describe the basic terms and concepts used in risk management. Describe the health effects of hazards.	Lecture

Module No	Objectives	Lesson Content	Content Area	Activity
01 Continued			Describe the risk assessment process. Describe the role of the Health Sector Emergency manager as applied to risk assessment.	Lecture
		Capacity assessment	Describe the elements of capacity to manage health risks of emergencies. Describe the approaches to assess capacity.	Lecture
			Apply a capacity assessment process for managing health risks.  Describe the role of the Health Sector Emergency Manager as applied to capacity assessment.	Lecture
		Damage, loss and needs assessment	Describe the importance of damage, loss and needs assessment in health sector disaster management.  Describe assessment process, methods and techniques.  Apply rapid assessment processes. Describe the role of the Health Sector Emergency Manager in carrying out damage, loss and needs assessment.	Lecture



<b>Module No</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
01 Continued		Disaster and emergency preparedness and response planning	Describe the steps in disaster and emergency preparedness/ response planning process	Lecture
			Discuss roles of the key stakeholders in preparedness and response planning	Lecture
			Generate necessary documents for disaster and emergency preparedness and response planning	Lecture/ Group work
			Discuss the importance of different strategies for the coordination of activities	Lecture
			Discuss the roles of the Health Sector Emergency Manager in Emergency Preparedness/ Response planning	Lecture

Module No	Objectives	Lesson Content	Content Area	Activity
01 Continued		Capacity Building	Describe strategies for capacity building at different levels.  Develop a plan for developing capacity to manage emergency health risks at institutional levels. Describe the role of key stakeholders in capacity building.  Describe the role of the Health Sector Emergency Manager as applied to capacity building.	Lecture
		Disaster response and relief	Describe situations that need immediate response	Lecture discussion
			Describe the sources of information to identify such situations	Lecture discussion
			List the partners of the health sector disaster response and relief	Lecture
			Describe the existing mechanisms of disaster response in Sri Lanka  Describe the standards of disaster response and relief	Lecture

Module No	Objectives	Lesson Content	Content Area	Activity
01 Continued		Recovery, rehabilitation and reconstruction	<p>Discuss the basic principles of recovery, rehabilitation and reconstruction</p> <p>Discuss the strategies and methodologies applicable for recovery, rehabilitation and reconstruction</p> <p>Discuss the key lessons in the management of health risks from recent disasters</p> <p>Describe the role of the Health Sector Emergency managers in managing disaster recovery, rehabilitation and reconstruction</p>	Lecture discussion

**Module 2: Trauma Care in Disasters**

Duration: 2 ½ days

Time slots: 1 ½ Hours X 10

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
02	Trauma care in disasters	Primary trauma care	Describe the principles of trauma care at first contact point	Lecture discussion
			Describe the role of the Health Sector Emergency Manager in providing trauma care at first contact point	
		Mass causality management	Describe the basic principles and concepts of mass casualty management Discuss the potential problems associated with mass casualty management	Lecture discussion
			Discuss the components of Integrated Emergency Medical Services system Discuss the process of emergency preparedness and response planning in the context of health care facilities	Lecture discussion
		Discuss the roles of the Health sector Emergency manager in Operations Management	Lecture discussion	

<b>Module No</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
02 continued		Pre – hospital care	Describe the principles and concepts of pre-hospital care	Lecture
			Discuss the available pre-hospital care services in the country	Student presentation
			Discuss the need for the improvement of pre-hospital care	Student presentation
			Discuss patient transportation	Lecture discussion
		Management of trauma due to Chemical, Biological, Radiation and Nuclear incidents. (CBRN)	Describe the principles of managing CBRN incidents	Lecture discussion
			Discuss the practical aspects of preparing for CBRN incidents	Lecture discussion
			Discuss the practical aspects of detecting and responding to CBRN incidents	

**Module 3: Medical Care in Disasters**

Duration: 2 ½ days

Time slots: 1 ½ hours X 10

Module No.	Objectives	Lesson Content	Content Area	Activity
03	Medical care in disasters	Medical care in disasters	Describe acute and chronic health effects of disasters	Lecture discussion
			Demonstrate skills in conducting a rapid health assessment of disaster victims	Lecture discussion
			Describe the basic concepts of providing curative healthcare services to disaster victims	Lecture discussion
			Describe the basic principles of managing acute and chronic illnesses in disasters and complex emergencies	Lecture discussion
			Discuss the importance of providing special care for vulnerable groups such as elderly and disabled	Lecture discussion
		Medical management of epidemics	Describe the important aspects of disease that can cause epidemics	Student Presentation

Module No.	Objectives	Lesson Content	Content Area	Activity
03 Continued			Discuss the role of the Health sector Emergency Manager, clinicians and different sections of hospitals in managing such epidemics	Student Presentation
			Discuss the strategies in preparing health institutions to respond to epidemics	Student Presentation
		Medical Management of Chemical, Biological, Radiation and Nuclear incidents (CBRN)	Describe the scenarios in which a CBRN incidents would take place Describe the principles of detecting and managing illnesses due to CBRN incidents	Lecture discussion
			Discuss the strategies in preparing health institutions to respond to CBRN incidents	Lecture discussion

**Module 4: Medico legal and ethical aspects**

Duration: 2 ½ days

Time slots: 1 ½ hours X 10

Module No.	Objectives	Lesson Content	Content Area	Activity
04	Medico-legal and ethical aspects of disaster management	Management of mass fatality incidents	Describe the basic principles of managing mass fatality incidents	Lecture discussion
			Discuss the strategies for preparing health institutions to respond to mass fatality incidents	Lecture discussion
			Discuss the role of the Health sector Emergency Manager in preparing and responding to mass fatality incidents	Lecture discussion
		Medico-legal management of disaster survivors	Describe the basic medico- legal principles of disaster management	Lecture discussion
			Describe the existing medico- legal framework related to disaster management of Sri Lanka	Lecture discussion
			List the organizations involved in handling medico-legal aspects of disaster management	Lecture discussion



<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
04 Continued			Describe the facilities and supplies required to address different medico-legal issues related to disasters	Lecture discussion
		Ethical aspects of disaster preparedness and response	Describe the basic concepts of ethics related to disaster management	Student Presentation
			Identify the situations with ethical concerns during disaster response and relief	Student Presentation
			Describe the methods available to handle such situations	Student Presentation

**Module 5: Psycho social health**

Duration: 2 ½ days

Time slots: 1 ½ hours X 10

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
05	Psycho- social health	Psycho-social health	Describe the impact of disasters on psycho-social health	Lecture discussion
			Discuss the importance of planning of mental health services for disaster victims	Lecture discussion
			Describe the principles of managing acute and chronic stress disorders of victims of disasters	Lecture discussion x 2
			Describe the concepts of promoting mental health for disaster victims and preventing illnesses	Lecture discussion x 2
		Counseling	Describe the basic principles of counseling related to disaster management	Lecture discussion
			Discuss the importance and relevance of counseling in disaster situations	Lecture discussion
			Identify situations and individuals that require counseling services	Lecture discussion
			Describe the basic qualifications of persons involved in counseling in disaster situations	Lecture discussion

**Module 6: Rehabilitation**

Duration: 2 ½ days

Time slots: 1 ½ hours X 10

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
06	Rehabilitation	Physical rehabilitation	Describe the basic principles of physical rehabilitation	Lecture discussion x 2
			Discuss importance of rehabilitation of disaster victims	Lecture discussion
			Discuss the importance of taking early initiatives to facilitate rehabilitation of disaster victims during the different stages of treatment	Lecture discussion
			List the partners of physical rehabilitation in Sri Lanka	Lecture discussion
			List the facilities and supplies required of physical rehabilitation of different categories of disaster victims	Lecture discussion x 2
			Social rehabilitation	Discuss the importance of social rehabilitation of disaster victims
		Describe the situations that requires social rehabilitation		Student Presentation
		List the partners of social rehabilitation in Sri Lanka		Student Presentation

**Module 7: Reproductive and Child Health and Nutrition**

Duration: 1 week

Time slots: 1 ½ hours X 20

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
07	Reproductive health, Child Health and Nutrition	Reproductive health	Discuss the importance of continuing the reproductive health services in disaster situations	Lecture discussion x 2
			Discuss the essential components of reproductive health services following disasters	Lecture discussion x 2
			Discuss the importance of planning of special reproductive health programmes for the disaster victims	Lecture discussion x 2
		Child Health and Immunization	Discuss the importance of continuing the immunization following disasters	Lecture discussion
			Discuss the principles of mobilizing resources for vaccinations and the roles of central and local health officials	Lecture discussion
			Discuss the importance of planning special mass immunization programmes for victims of disasters and special groups	Student Presentation x 2
			Discuss the other health services applicable for children in disasters	Lecture discussion x 2

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
07 Continued		Nutrition	Discuss the importance of nutrition interventions following disasters	Lecture Discussion x 2
			Describe the principles of conducting a rapid nutrition assessment of disaster victims	Lecture discussion
			Discuss the strategies for the establishment of nutrition intervention programmes	Lecture discussion x 2
			Discuss the value of food supplementation in disasters	Lecture discussion
			Discuss the importance of nutritional intervention for special groups e.g. infants, children, pregnant and lactating mothers etc	Lecture discussion x 2

**Module 8: Environmental Health**

Duration: 1 week

Time slots: 1 ½ hours X 20

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
08	Environmental health	Environmental health	Discuss the importance of environmental health services in disaster situations	Lecture discussion
			Describe the basic concepts of environmental health in disasters	Lecture discussion
			Describe the environmental effects of different disasters	Lecture discussion
			Describe the basic principles of managing displaced populations	Lecture discussion
			Describe the minimum standards in providing care to displaced populations	Student presentations x 2
			Shelter and protection of displaced persons	Lecture discussion
			Food and nutrition for displaced persons	Lecture discussion
			Water and Sanitation for displaced persons	Lecture discussion
			Other services for the displaced persons	Lecture discussion
			Health promotion among displaced persons	Lecture discussion

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
08 Continued			Describe the partners in providing health services to displaced populations	Lecture discussion
			Describes the practical aspects of managing displaced populations	Table top simulation x 2
			Pollution and related aspects of disasters	Lecture discussion
			Vector Control following disasters	Lecture discussion
			Chemical incidents	Lecture discussion x 2
			Radiation emergencies	Lecture discussion x 2

**Module 9: Statistics and Epidemiology**

Duration: 2 weeks

Time slots: 1 ½ hours X 40

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
09	Epidemiology and research	Basic epidemiology	Describe the basic principles and concepts of epidemiology	Lecture discussion x 2
			Describe the basic study designs in epidemiology	Lecture discussion x 2
			Discuss errors in designing studies and managing errors	Lecture discussion
			Design a feasible epidemiological study related to disaster management	Lecture discussion x 2
		Basic statistics	Describe the basic descriptive and inferential statistics	Lecture discussion x 2
			Apply the basic statistics in analyzing the research conducted by the student	Lecture discussion
		Research Methodology	Learn to design and conduct a research scientifically	Workshops (6 hours x 4)
		Applied epidemiology	Discuss the role of epidemiologists in disasters	Lecture discussion
			Describe the basics of rapid field investigations	Student Presentation x 3
			Learn the principles of outbreak investigation and controlling an outbreak	Workshops (6 hours x 3)



Module No.	Objectives	Lesson Content	Content Area	Activity
09 Continued			Learn the basics of disease surveillance in disaster situations	Lecture discussion

### Module 10: Managerial aspects in Disasters

Duration: 1 week

Time slots: 1 ½ hours X 20

Module No.	Objectives	Lesson Content	Content Area	Activity
10	Managerial aspects in disaster preparedness and response	Principles of healthcare management	Describe the basic principles of health care management in disaster situations	Lecture discussion
			Discuss the importance of applying principals of healthcare management in disaster situations	Lecture discussion
		Policy legislative and administrative aspects	Discuss the need to develop policies and guidelines for health sector disaster management.	Lecture discussion
			Describe the components of the policy-making process for health sector disaster management	Lecture discussion
			Describe the role of the health emergency manager at the national and sub-national levels in policy-making and in monitoring policy implementation	Lecture discussion

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
10 Continued			Discuss the important aspects of international law related to humanitarian response to disasters	Lecture discussion
			Describe sources of standards or best practices that can be used as references for developing guidelines.	Lecture discussion
		Donor and donations management	Discuss the importance of donor assistance in disaster management	Lecture discussion
			Demonstrate skills to coordinate donor assistance in disaster situations	Workshop (6 hours)
		Inter sector coordination	Describe the principles of inter sector coordination	Lecture discussion
			Discuss the importance of inter sector coordination in disasters	Student Presentation x 2
		Logistic management	Discuss strategies for obtaining and distributing critical supplies and maintaining critical infrastructure in an emergency	Lecture discussion
			Discuss logistical issues associated with the maintenance and delivery of critical supplies	Lecture discussion

Module No.	Objectives	Lesson Content	Content Area	Activity
10 Continued			Discuss the respective benefits of supply and logistics management systems	Lecture discussion
			Discuss the roles of the Health Sector Emergency Manager in exercise management, logistics and supplies management	Student Presentation X 2

### Module 11: Information Management

Duration: 2 ½ days

Time slots: 1 ½ hours X 10

Module No.	Objectives	Lesson Content	Content Area	Activity
11	Information management	Information management	Discuss the value of good information for effective management of health risks	Lecture discussion
			Discuss how information management systems support health sector disaster management	Lecture discussion
			Discuss risk communication in the context of health sector disaster management	Lecture discussion

Module No.	Objectives	Lesson Content	Content Area	Activity
11 Continued			Describe the roles of the Health Sector Emergency Manager as applied to management of information systems and in risk communication	Lecture discussion
		Information Technology	Demonstrates the basic skills in information technology related to disaster management	Lecture demonstration (3 hours x 3)

### Module 12: Miscellaneous topics

Duration: 1 week

Time slots: 1 ½ hours X 20

Module No.	Objectives	Lesson Content	Content Area	Activity
12	Miscellaneous topics	Health economics	Discuss the Economic Impact of disasters and other complex emergencies	Lecture discussion x 2
			Discuss the economic burden on the health systems in disasters	Lecture discussion x 2
			Discuss the direct cost, indirect cost and intangible cost of disasters on persons and communities	Lecture discussion x 2
		Demography	Describe the basic principles of demography in relation to disaster management	Lecture discussion x 2

<b>Module No.</b>	<b>Objectives</b>	<b>Lesson Content</b>	<b>Content Area</b>	<b>Activity</b>
12 Continued		Community based risk reduction	Apply the basic techniques of demography to facilitate disaster preparedness and response	Lecture discussion x 2
			Discuss the importance of demographic data in planning and forecasting disaster response	Lecture discussion x 2
			Discuss the importance of community involvement in disaster risk reduction	Lecture discussion x 2
			List the organizations at community level that can be involved in disaster preparedness and response	Lecture discussion x 2
			Describe the situations in the work environment where community based risk reduction could be successfully implemented	Lecture discussion x 2
			Discuss the strategies used to community mobilization	Student presentation x 2

## Annex B

### Details of the Clinical attachments

#### Appointment 01 -06

The group will be sent as small groups of 4/5 on a rotational basis to the following six units. Each group will spend one week in each and rotate between the units in the first six weeks of the clinical attachment.

Appointment	Training Unit	Duration	Number of student groups
01	Disaster Preparedness and Response Division	1 week	6
02	Accident Service of NHSL	1 week	6
03	Infectious Diseases Hospital	1 week	6
04	Disaster management Centre of the Ministry of Disaster management	1 week	6
05	Outpatients' Department of NHSL	1 week	6
06	JMO Office	1 week	6

#### Appointment 07 - 14

The entire group of students will spend one day each in the following units within the Ministry of Health for a total of six days.

Appointment	Training Unit	Duration	Number of student groups
07	Epidemiology Unit	01 day	01
08	Family Health Bureau	01 day	01
09	Health Education Bureau	01 day	01
10	Medical Supplies Division	01 day	01
11 and 12	Dengue Control Unit and Medical research Institute	01 day	01
13 and 14	Environmental and Occupational Health Unit and Director (Medical Services)	01 day	01

Appointment 15

The entire group of students will spend one day at the Sarvodaya Movement Head Office in Colombo.

Appointment 16

The students will be divided into five groups and each group will visit one of the following UN Organizations. The students will have a class room presentation the following day.

<b>Training Unit</b>	<b>Duration</b>	<b>Number of student groups</b>
World Health Organization	01 day	05
Unicef	01 day	05
UNFPA	01 day	05
UNDP	01 day	05
IOM	01 day	05

**Annex C**

**Postgraduate Institute of Medicine – University of Colombo**  
**Signature card for clinical attachments**  
**Diploma in Health Sector Disaster Management**

Name of the trainee: .....

<b>Appointment</b>	<b>Training Unit</b>	<b>Date</b>	<b>Signature of the trainer</b>
01	Disaster Preparedness and Response Division		
02	Accident Service of NHSL		
03	Infectious Diseases Hospital		
04	Disaster management Centre of the Ministry of Disaster management		
05	Outpatients' Department of NHSL		
06	JMO Office		
07	Epidemiology Unit		
08	Family Health Bureau		
09	Health Education Bureau		
10	Medical Supplies Division		
11 and 12	Dengue Control Unit and Medical research Institute		
13 and 14	Environmental and Occupational Health Unit and Director (Medical Services)		
15	Sarvodaya Movement Head Office in Colombo		
16	World Health Organization/ Unicef/ UNFPA/ UNDP/ IOM		

***It is the responsibility of trainee to obtain signatures at the end of the clinical attachments & to submit the signature card to the PGIM.***



## Annex D

## List of Training Institutions for the Field Training

	<b>Training Institution</b>	<b>Number of Institutions</b>
01	Office of the Provincial Director of Health Services	09
02	Office of the Regional Director of Health Services	26
03	Public Health training Institutions FHB, Epidemiology Unit, HEB, NIHS, NIMH, NBTS	06
04	National Hospital of Sri Lanka	01
05	Teaching Hospitals	21
06	Provincial General Hospitals	3
07	District General Hospitals	18
08	Base Hospital – Type A	21
09	Base Hospital – Type B	45

**Annex E**

**Postgraduate Institute of Medicine – University of Colombo  
Progress Report – Field Training  
Diploma in Health Sector Disaster Management**

**Name** : .....

**Reporting Period:** .....

**Report No.** : .....

**Activities carried out for the specific period**

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**Training goals that could not be met (if any)**

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**Remedial actions taken by the trainee as well as the trainer/ Head of institution**

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**Comments of Trainer**

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**Name:** ..... **Signature**.....

**Date**.....

**Comments of Head of Institution**

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**Name:** ..... **Signature**.....

**Date**.....