



## Certificate Course in Medical Genetics

(Maharashtra University of Health Sciences)

### Organized by:

Department of Genetics, Immunology and Biochemistry,  
Maharashtra University of Health Sciences  
Pune Regional Centre,  
3<sup>rd</sup> floor, ESIS hospital,  
Aundh, Pune – 411 027  
Telefax : (020) 27280454, 27285695

### Contact Person:

Dr. P.S. Gambhir,  
Professor and Head,  
Department of Genetics, Immunology and Biochemistry

### Introduction:

Genetics is a rapidly advancing science and the major strides that medicine will accomplish in the present century will be made possible by understanding the progress of human molecular genetics. If the fruits of this progress are to reach the common man, the medical fraternity has to keep abreast of the ever increasing information in genetics. However, the conventional medical curricula carry very few dedicated teaching sessions in genetics.

To fill this lacuna, the Department of Genetics, Immunology and Biochemistry (GIB), Maharashtra University of Health Sciences (MUHS) is offering a certificate course in Medical Genetics. It is envisaged that this course will equip the medical fraternity and the technical personnel involved in care of patients and families with knowledge of genetics and molecular biology.

### Aims and Objectives:

- To equip the participants with a strong background in the basic principles of genetics
- To give additional insights that modern genetics has brought to this field.
- To help participants to become familiar with the language of genetics and the terminology of molecular biology.
- To provide participants with the ability to solve problems and think analytically.

- To sensitize the participants about the various common genetic conditions.
- To enlighten the participants about the significance of molecular diagnostics for various hereditary disorders.
- To equip the participants with the principles of genetic counseling
- To involve the participants in short-term research projects

**Outcome:** The participants will be able to

- Identify and diagnose common genetic problems
- Offer counseling to families with genetic disorders
- Develop interest in conducting research related to genetics

### Eligibility:

- Bachelor Degree from Medicine (Allopathy, Ayurveda, Homeopathy, Unani and others) and Dentistry
- Bachelor degree in Life Sciences.
- Bachelor degree in Allied Medical and Health Sciences like Nursing and Physiotherapy.
- Bachelor degree in Medical Laboratory Sciences or Medical Social Work or Psychology.

**Duration of the course: Six months.**

**Language of Course : English**

**Total Number of Seats:** Seats for this course is limited to **30** only.

**Course Structure:**

Weekend teaching with lectures on Sundays

**Course Fees:**

Fees will be Rs.20,000/- and Rs. 500 as application processing fees.

**Application Form & Information Brochure:**

Information Brochure along with blank application form is available on the University website: [www.muhsnashik.com](http://www.muhsnashik.com). Application form should be downloaded and sent along with a D.D. of **Rs. 500/-** in favor of "**Registrar, MUHS, Nashik**". D.D. should be drawn on any Branch of Nationalized bank payable at Nashik. The envelope should be superscripted with "Certificate Course in Medical Genetics". The application form must be filled by the candidate in his / her own handwriting using black ball point pen and submit it on or before last date of submission of the application forms on the address given below.

**Selection Process:** A selection committee will select the candidates on the basis of merit and letter of intent.

**Teaching Schedule**

➤ The teaching schedule of the course will begin from **July 2009**.

**Project work:**

Each student will complete a project of his/her choice during this period.

**Evaluation:**

- Internal assessment – 50 marks (conducted every fortnightly)
  - Theory exam – 100 marks
  - Project work – 50 marks
- Minimum passing 50% in each head

**Course features:**

- Comprehensive coverage of the theory in Medical Genetics
- Lectures by a panel of faculty members, expert in Genetics and Molecular Biology
- Clinical case study and discussion
- Weekend programme
- Successful candidates will be awarded certificate from Maharashtra University of Health Sciences.

**Prospects after the programme:**

The course will -

- Help clinicians in the early diagnosis and intervention in genetic disorders
- Knowledge would be of help in setting up a genetic clinic / Counseling cell

- Future opportunities in the field of Gene therapy and stem cell research.
- Basic knowledge of genetics will be useful in competitive exams

**Future Plans of the Department**

The Department of Genetics, Immunology and Biochemistry plans to start the following courses

- Certificate course in Molecular Diagnosis (Laboratory oriented course)
- Research programmes designed for the degree of M.Phil. and Ph.D.

**Address for Correspondence:**

Department of Genetics, Immunology and Biochemistry, Maharashtra University of Health Sciences, 3<sup>rd</sup> Floor, ESIS Hospital Building, Aundh, Pune – 411 027.

Tele/Fax : 020-27280454, 27285695

Website: [www.muhsnashik.com](http://www.muhsnashik.com)

Email id: [muhs.genetics@gmail.com](mailto:muhs.genetics@gmail.com)

**Contact details :**

Dr. Prakash Gambhir (09422022526)

[drprakashgambhir@yahoo.com](mailto:drprakashgambhir@yahoo.com)

Mr. Rajendra S. Kulkarni (09423013409)

[krajendra@unipune.ernet.in](mailto:krajendra@unipune.ernet.in)

Dr. Mugdha Potnis- Lele (09970012199)

[mugd halele@gmail.com](mailto:mugd halele@gmail.com)

Dr. Pramila G. Menon (09960255611)

[pramila\\_menon@rediffmail.com](mailto:pramila_menon@rediffmail.com)