



Certificate Course in Reproductive Genetics

(Maharashtra University of Health Sciences)

Organized by:

Department of Genetics, Immunology and
Biochemistry,
Maharashtra University of Health Sciences
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Contact Person:

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Introduction:

The genetic aspects in the field of obstetrics and gynaecology form an insignificant part of the present health sciences curriculum. Like other branches of medicine, advances in obstetrics and gynaecology are taking place on the basis of advances in genetics. Reproductive Genetics is a rapidly advancing science. Considering the need of the hour, Department of Genetics, Immunology and Biochemistry, Maharashtra University of Health Sciences, is offering a certificate course in Reproductive Genetics. This course will help doctors and technical people involved in care of patients and families with reproductive disorders. The course covers a syllabus ranging from basics of reproductive genetics to the latest Assisted Reproduction Techniques.

Aims and Objectives:

- To provide basic understanding of human reproduction and new reproductive techniques
- To understand genetics of infertility and recurrent pregnancy losses (RPL)
- To give the theoretical and the practical application of this knowledge in the field of Assisted Reproduction Techniques.
- To help students understand the principles of reproductive genetics and apply in practice.
- To equip the participants with the principles of genetic counseling and prenatal diagnosis.

- To train participants to undertake research projects in Reproductive Genetics.

Future Prospects:

- This certificate course will have the following future prospects for participants
- Help clinicians in diagnosis and intervention in reproductive genetic disorders
 - Knowledge would be of help in setting up a reproductive genetic clinic / Counseling cell.
 - Sensitize clinicians for prenatal diagnosis and genetic counseling.
 - Clinicians can deliver better care to the families with genetic disorders
 - This course will be a major stepping stone to enter the field of national and international research in the field of reproductive genetics.

Eligibility:

- MD (Gynecology and Obstetrics)/DGO
- Bachelor Degree from Medicine (Allopathy, Ayurveda, Homeopathy, Unani and others) practising gynecology and Obstetrics with experience and/or interest in reproductive genetics.
- Bachelor degree in nursing with specialty in obstetrics and gynaecology.
- Bachelor degree in Life Sciences with experience and/or interest in reproductive genetics
- Bachelor degree in medical laboratory sciences with experience and/or interest in reproductive genetics

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: 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.

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 Reproductive Genetics". The application form must be filled by the candidate in his / her own handwriting using black ball point pen and submitted on or before last date of submission of the application forms on the address given below.

Selection Process: On the basis of merit and letter of intent as decided by the selection committee.

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 Reproductive Genetics
- Lectures by a panel of faculty members, expert in Genetics, Reproductive Genetics, Molecular Biology, infertility and assisted reproductive techniques
- Clinical case study and discussion
- Weekend programme
- Successful candidates will be awarded certificate from Maharashtra University of Health Sciences.

Prospects after the programme:

- Help clinicians in the early diagnosis and intervention in reproductive genetic disorders
- Help clinician to apply the recent advances in this field in his practice
- Equip people working in infertility clinics in the recent advances in the techniques
- Knowledge would be of help in setting up a genetic clinic / Counseling cell with life sciences background

- Basic knowledge of reproductive 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.

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