Eligibility

Graduates & Postgraduates in Medicine,

Dentistry, Genetics, Biotechnology, Biochemistry, Zoology, Microbiology/Pharmacy and Nursing with 50% marks from a recognized University.

No. of seats: 20

Selection Criteria

- Applications will be screened and suitable candidates will be called to appear for an interview.
- Selection of candidates will be on the basis of academic record and performance in the interview.

Fee Structure

The fee for this self-financed course is Rs.30,000/- (Rupees Thirty Thousand only) payable at the time of admission through DD in favor of "The Director, Institute of Genetics" OU, Begumpet, Hyderabad.

Application processing fee of Rs. 500/- (Rupees Five Hundred only) payable at the time of submission of application through DD in favor of "The Director, Institute of Genetics" OU, Begumpet, Hyderabad.

Important Dates

Applications along with prospectus can be downloaded from the following websites: www.instituteofgenetics.org

www.osmania.ac.in

Last date for submission

of application : 25.08.2022

List of selected

candidates on website : 27.08.2022

Commencement of Course : 01.09.2022

Address for Correspondence

Dr. B. Vijaya Lakshmi

Director (I/C)

Institute of Genetics & Hospital for Genetic Diseases, O.U., Begumpet, Hyderabad -16

Ph: 8331997340

Email: ighgd.hyd@gmail.com

Course Co-ordinators

Dr. A. Venkateshwari Associate Professor

E-mail: venkateshwari@yahoo.com

&

Dr. G. Deepika Assistant Professor

E-mail: deepika2104@gmail.com



Certificate Course Clinical Genetics: Diagnostics and Management

Prospectus



Institute of Genetics & Hospital for Genetic Diseases Osmania University, Begumpet, Hyderabad –500016 Ph: 8331997340

Email: ighgd.hyd@gmail.com www.instituteofgenetics.org

About the Institute

Institute of Genetics and Hospital for Genetic Diseases, Osmania University is a premier institute in the country which conducts multi-disciplinary research in the field of Human Genetics. It was established in the year 1978 with generous funding from DST, UGC and Govt. of Andhra Pradesh.

Our aim is to prevent morbidity and mortality due to genetic disorders. We provide diagnostic services for these disorders at chromosomal, biochemical and molecular levels. Counseling is also offered to the affected individuals and their family members.

The Institute offers doctoral, postdoctoral research and training programs in genetic diagnosis. It also offers M.Sc Molecular & Human Genetics Course Sponsored by DBT.

Our purpose of introducing this Certificate Course in "Clinical Genetics: Diagnostics and Management" is to bridge the gap between scientific and medical fraternity in understanding the recent advances made in the field of clinical genetics and also to meet the increasing demand of genetic investigators and skilled personnel to serve the patient community better and to work towards the prevention of human afflictions.

Objective

To impart knowledge and practical skills of cutting edge technologies in Clinical Genetics, Cytogenetics, Biochemical and Molecular Genetics for precise diagnosis, proper management and genetic counseling

Course Details

The course is designed to reflect the increased impact of genomics in understanding human diseases

The course duration is of **six months** comprising of theory, practical training and project work.

Theory includes

- Advanced Techniques in Medical Genetics
- Biochemical & Molecular basis of Genetic Diseases
- Prenatal Diagnosis & Genetic Counseling

Practicals include

Hands on training in various techniques involved in Prenatal and Post natal diagnosis of Genetic Disorders:

- 3D/4D Ultrasonography (TIFFA,Fetal 2D Echo)
- Intervention Procedures (Amniocentesis, CVS)
- Lymphocyte Culture
- Karyotyping
- Fluorescent In situ Hybridization (FISH)

- Chromosomal Microarray
- Clinical Exome Analysis (NGS)
- Clinical Proteome Analysis (Lc-MS/MS)
- Restriction Fragment Length Polymorphism (RFLP)
- High Performance Liquid Chromatography (HPLC)
- Comet assay
- Enzyme Linked Immunosorbent Assay (ELISA)
- Newborn screening
- Case studies (Clinical evaluation Pedigree analysis, Risk assessment)
- Psychological assessment
- Genetic Counseling
- PCR, ARMS-PCR, Multiplex PCR

Evaluation

Project work: Desired discipline

Theory & Practicals - 300 marks
Project Work - 100 marks

Minimum pass marks - 50%

Successful candidates will be awarded certificates by Institute of Genetics, Osmania University, Hyderabad

Prospects of the Course

Candidates will develop the potential to get placements in National / International Research Organizations, Hospitals, Speciality Clinics, Diagnostic Centers etc



Note:

Institute of Genetics and Hospital for Genetic Diseases (IGHGD), Osmania University, Begumpet, Hyderabad – 500 016, Telangana

APPLICATION FORM

 Particulars in the form should be filled in by the candidate in his/her own hand writing in ENGLISH only. Application form has to be downloaded from websites and must be accompanied with DD of Rs. 500/- towards processing fee. 							
Bank DD Nodrawnin favour of "The D		for Rs netics, OU, Begumpet,					
Hyderabad. Name and Address of Ban	ık issuing DD:	, , G ,					
1. Full Name:	J		Affix passport size photo and sign across				
(In BLOCK letter	·s)						

3. Mother's Name:

2. Father's Name:

4. Date of Birth: (DD / MM / YYYY)

- 5. Place and State of Birth:
- 6. Address for Communication:

	a) Telephone No.(with STD Code):		
	b) Mobile:	c) Email:	
7.	Sex:		

8. Nationality: _____

9. Whether SC / ST / OBC / GENERAL : (If SC/ST/OBC– attach copy of the Caste certificate.)

10. Educational Qualifications:

Graduation &	College/ Institution	Subjects	Marks/grade	Year of
Post Graduation	& University		obtained	passing

11. Specify the name of the course for which applying:

12. ENCLOSURES TO THE APPLICATION FORM

The following documents must be attached with the Application form. Any lapse in this connection may result in delay in finalization of the Admission and / or rejection of the application.

- a. Demand Draft in favour of "The Director, Institute of Genetics, O.U, Begumpet, Hyderabad" for a sum as shown in the Fee Structure and payable at Hyderabad. All the demand drafts should be taken from any Nationalized Banks only.
- b. Attested Photostat copy of the Marks Memo of Qualifying examination
- c. In case of SC / ST / OBC enclose a Photostat copy of Caste Certificate.
- d. One self-addressed stamped envelope.

Place:	
Date :	(Signature of the applicant)
UND	ERTAKING
I	S/o / D/o
the legal jurisdiction in respect of all legal masuch as admission / issue of course materi memorandum / provisional certificate / origin	alations and stipulations of IGHGD, OU and I am aware that atters arising out of my admission for the course examination, al / hall ticket / declaration for result and issue of marks nal, degree certificate etc. or any other issues, is restricted to bad only. I further agree that the courts / consumer forums n.
I further, state that I shall abide by the Prospectus and also those issued from time to	regulations of the Centre / University incorporated in the time during the course of my study.
the best of my knowledge and if any informa	ulars furnished in the admission form are true and correct to ation is found to be contrary to the rules, my admission shall on as the IGHGD, OU deems fit. As such I will not have any
Place:	
Date:	(Signature of the applicant)
Mailing Address:	
The Director, Institute of Genetics and Hospital for Genetics and Hospital for Genetics and Hospital for Genetics, Begumpet, Hyderab Phone: 040-23403681	

Last Date for submission of filled in Application: 25-08-2022 The application can be downloaded from: www.instituteofgenetics.org / www.osmania.ac.in