



**Institute of Genetics & Hospital for Genetic Diseases,  
Osmania University, Begumpet, Hyderabad – 500016**

**Website: [www.instituteofgenetics.org](http://www.instituteofgenetics.org)**

## INFORMATION BROCHURE

### **One year Postgraduate Diploma Program in Genetic Counseling**

#### **About Osmania University**

Osmania University, established in 1917, is the seventh oldest in India, the third oldest in South India and the first to be established in the erstwhile princely state of Hyderabad. The University has a vision of developing, enhancing, and improving the quality of human resources to meet the challenges of regional, national and global socio-economic changes. Its mission is to achieve excellence in teaching and research and to create opportunities for the students to contribute to the regional and national development. It is re-accredited by the National Assessment and Accreditation Council (NAAC) as 'A'+ Grade University.

#### **About the Institute**

Institute of Genetics and Hospital for Genetic Diseases a premier institute established in 1978 by Osmania University. It has been accomplishing a pioneer role in southern part of India for the past four decades in providing basic to advanced diagnostic and genetic counseling services, research, training and outreach activities. The objective of the institute is mostly to prevent morbidity and mortality in prenatal, post natal periods and in childhood due to genetic diseases, by conducting multidisciplinary research and offering diagnostic services to the afflicted and their families at prenatal, postnatal and premarital stages by clinical, cytological, biochemical, and molecular evaluations. The specialized services provided by this institute gave a new dimension in improving the reproductive and child health services and in decreasing the burden of genetic diseases which are unsurfaced factors, hampering the socio-economic development of our country.

#### **About the Course**

Genetic Counseling (GC) is an advanced specialty of Human Genetics, that provides information and advice to families affected with genetic disorders through enhanced understanding of genetic diseases, discussing disease management options, anticipating the risks and explaining the benefits of testing. Counseling the patients for the prevention/management of the debilitating genetic disorders is highly essential for the a healthy mankind. The importance and demand for GC has surfaced in present times, firstly due to the availability of genetic information owing to mapping of complete Human Genome, and secondly due to the translation of this information for clinical use. By the virtue of above facts, our course has been designed to mould the students into expert and efficient genetic counselors ready to meet the challenges in clinical genomic medicine and provide a better service to mankind.

## **Objective**

The goal of the course is to educate students in the core concepts of Human Genetics, and to provide real time experience and practical skills, to train students to become competent, sensitive, and motivated counselors to function in a wide range of settings and roles. The program strives to interface between patients, clinicians and geneticists, and become effective genetic counselors.

## **Eligibility Criteria**

The aspirants of Master's Degree in Life Sciences (Zoology, Genetics, Biotechnology, Biochemistry) and MBBS /MD from a recognized University.

**No. of seats:** 10 (Reservation as per Telangana State Government Rules)

## **Selection Criteria**

Through a Common Entrance Test to be conducted by Directorate of Admissions, Osmania University, Hyderabad.

## **Medium of Instruction**

The medium of instruction for the course and for examinations shall be English only.

## **Course Delivery**

The course is delivered through class room lectures, guest lectures by industrial experts, case studies, field visits, project work, audiovisual presentations, group discussions, seminars, dissertations and on-the-job training(internship).

## **Course Duration and other details**

One year full time, on-campus Masters Programme. The course includes theory, practical training and project work.

### **Theory includes**

- Clinical Genetics
- Cytogenetic, Molecular, Biochemical Genetics
- Genetic Counseling

### **Practicals includes**

- Hands on training in various techniques involved in Prenatal and Post natal diagnosis of Genetic Disorders, along with basic to advance techniques in Clinical Genetics, Biochemistry, Cytogenetics, Molecular Biology and Environmental Toxicology.

### **Project work**

- Includes observation of genetic cases at government hospitals, understanding the pathophysiology, management and counselling the affected families.

### **Fee Structure**

- Course Fee : Rs. 1,50,000/- (Rupees One lakh fifty thousand only) to be paid at the time of admission the course in the form of D D favor of “The Director, Institute of Genetics O.U., payable at Hyderabad.
- Application Fee: Rs. 1500/- (Rupees One Thousand only)for open category candidates and Rs. 1,000/- (Rupees one thousand only) for reserved category candidates in the form of DD in favor DIR ADMISSIONS, O U payable at Hyderabad.
- Counselling Fee: Rs. 2,000/- ( Rupees Two thousand only) to be paid only by the “ **selected candidates**” in the form of DD in favor DIR ADMISSIONS, O U payable at Hyderabad.

**Note:** Fee once paid cannot be refunded.

## **Evaluation**

Theory & Practical - 450 marks

Project Work & Case Observations - Grade

Minimum pass marks - 50%

Successful candidates will be awarded grade cards certificates by Osmania University

## **Prospects of the course**

The course nurtures the students with a strong knowledge base in basic, applied and translational Human Genetics and core concepts of Genetic Counseling which is essential for a strong foundation and an effective holistic approach towards management. Students gain an insightful awareness of the new advances in medical genetics and of related ethical, medico-legal and social issues. They gain real time experiences and profess in various practical skills. This distinctive design affords students a strong knowledge base followed by diverse and robust patient- centered experience mandatory to function as efficient genetic counselors. Students can have employment opportunities in various medical institutions, hospitals, national and state government health schemes, specialty clinics, diagnostic centers, academic institutions, research organizations and private organizations.

## **Important dates**

Applications along with prospectus can be downloaded from the following websites:

[www.osmania.ac.in](http://www.osmania.ac.in)

[www.ouadmissions.com](http://www.ouadmissions.com)

[www.instituteofgenetics.org](http://www.instituteofgenetics.org)

Last date for submission of application	: 19.06.2023
Last date for submission of application with late fee	: 26.06.2023
Date of Examination Tentatively	: 05.07.2023
Announcement of results	: 12.07.2023
Admissions Counselling	: 14.07.2023
Commencement of Classes	: 31.07.2023

## **Career Opportunities**

Since the inception of the course most of the students are well placed in the prominent organizations like Kamineni Life Sciences, Sandor Specialty Diagnostics Pvt. Ltd., Red Cliff Diagnostics, Utage Child Development Centre, Mi Fine diagnostics and research, Hegde hospitals, Yoda diagnostics etc.

## **Address for Correspondence**

**Dr. B. Vijaya Lakshmi**

Director (I/c)

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