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Dr. Trupti Patel Professor, SBST  
Dr. G. Kumaramanickavel Med Dir., GenVams



Vellore Institute of Technology & Center  
for Medical Genetics GenVams Trust  
Presents

Two days Lecture Series & Workshop  
On

## Integral Role of Genetic Counselling in Healthcare Management

13<sup>th</sup> and 14<sup>th</sup> September 2024

Organized by-

School of Biosciences and Technology  
VIT Vellore, Tamil Nadu

#### Registration Fee

Lecture Series: 350 INR

Workshop: 550 INR

Registration link

<https://events.vit.ac.in/>

For queries mail us

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Faculty Coordinators

Dr. Alka Mehta-Dr. Kavitha Thirumurugan

Dr. Abul Kalam Azad- Dr. Everette Nelson

Student Coordinators

Devyani Charan -Apurwa Mishra -Shrikirti Anand

Kratika Verma - Pallavi Thakur - Lucky Parida

#### ABOUT VIT

Vellore Institute of Technology (VIT), established in 1984 by Chancellor Dr. G. Viswanathan as Vellore Engineering College, has grown remarkably having diverse academic programme under its aegis. Known for its excellence, it attracts students from all 28 states and 8 union territories of India, and from over 50 countries globally. We aim for high standards in teaching and research driven by continuous pursuit of excellence. Currently, we are 212<sup>th</sup> best in the World and 9<sup>th</sup> best in India as per QS World University Rankings. We stand 10<sup>th</sup> best academically, 13<sup>th</sup> best as a research institution and 11<sup>th</sup> best engineering institution in India - conferred by the NIRF Ranking, Govt. of India (2024). We have a NAAC Accreditation with A++ grade (2021). As per US News recently, we proudly rank 6<sup>th</sup> in India and 687<sup>th</sup> in the world.

Govt. of India recognizes VIT as an Institute of Eminence (IOE). VIT is committed to excel and innovate to meet the global standards of research and education.

A place to learn, a chance to grow!

#### ABOUT SBST

School of Bio Sciences and Technology (SBST) is a distinguished part of VIT consisting of four departments namely Biotechnology, Integrative Biology, Bio Sciences and Bio-Medical Sciences along with three centers. The school offers an undergraduate (B.Tech. Biotechnology) and six Postgraduate (M.Sc. and M. Tech.) programme. Additionally, it has an extensive doctorate programme. The priority of our school is developing entrepreneurship and mentoring students to become successful professionals working for the betterment of humanity. The School is driven by 92 highly skilled faculty members. Our academic and research backbone is strengthened by collaboration with national-international institutions and industries making us one of the most promising center of excellence in the field of Biology.



#### GENETIC COUNSELLING IN HEALTHCARE MANAGEMENT

Advent of advanced healthcare management strategies like precision medicine makes genetic counselling an essential component of public health. It facilitates informed decision-making concerning a person's or family's genetic health. It establishes a link between the knowledge of our DNA and the choices we make on family planning and health.

Genetic counselling is important to understand how certain genetic disorders or diseases affect our family tree. Genetic counsellors are well-trained personnel having integrated knowledge of genetic and genomic medicine. The goal of this event is to educate young minds on various genetic diseases, their psychological and socioeconomic impacts and how genetic counselling can be a rewarding career option.

## List of Resource Persons



Dr. G. Kumaramanickavel, Director,  
GenVams Trust: Genetic Counselling in the  
Genomic Era



Dr. Alpesh Patel, -Geneticist and Lab  
Director, GeneXplore Diagnostics Genetic  
Counselling for pre-implantation Genetic  
Testing (PGT)



Ms. Niby Jacob, Founder- Bluegene  
Healthtech: Empowering Precision Care:  
Role of Genetic Counsellors in Cancer  
Management



Ms. Neeraja Reddy Mallela, VP,  
Mapmygenome – Supporting client journey:  
Integration of genetic counselling from  
preconception to paediatric care



Dr. Teena Koshy, Associate Professor,  
SRMC De-mystifying genetic and  
genomic testing



Ms. Brinda Ramanathan, GenVams Trust:  
Genetic counselling in  
neurodevelopmental disorders



Deepika Karthik Kumar, GenVams Trust:  
Basics of medical genetics and genetic  
counselling



Dr. Trupti Patel, SBST, VIT - Ethical, legal,  
and social issues (ELSI) in Human  
Genetics

#### DAY-1 (Lecture Series)

9:00 - 10:00 AM – Dr. G. Kumaramanickavel

10:00 - 11:00 AM – Dr. Alpesh Patel

11:00 - 11:15 AM – Tea Break\*

11:15 AM - 12:15 PM –Ms. Niby Jacob

Q&A session up to 12:45 pm

12:45 - 2:00 PM – Lunch Break\*

2:00 - 3:00 PM – Ms. Neeraja Reddy

3:00 - 3:15 PM – Tea Break\*

3:15 - 4:15 PM – Ms. Brinda Ramanathan

4:15 - 5:15 PM – Dr. Trupti Patel

\*Lunch will not be provided on Day1

\*Tea/Coffee provided



#### Event Details

## Integral Role of Genetic Counselling in Healthcare Management

13<sup>th</sup> & 14<sup>th</sup> September 2024

Guest Lectures  
Workshop  
Case Studies and Discussions

\*E-certificates will be provided to all the participants

\*OD provided to the students who attend all session

#### DAY- 2 (Workshop)

Part - I Case studies and Interactive Sessions

8:00 to 9:00 AM– Cancer GC

9:00 to 10:00 AM - Prenatal GC

10:00 to 10:15 AM- Tea Break

Part-II Workshop related lectures and activities

10:15 -11:15 AM - Dr. Teena Koshy

11:15 – 12:15 AM - Dr. G. Kumaramanickavel

12:15 to 1:00 PM – Lunch Break\*

1:00 PM to 4:00 PM–Workshop

Dr. G. Kumaramanickavel - Ms. Brinda Ramanathan

Ms. Niby Jacob - Ms. Neeraja Reddy

Dr. Teena Koshy –Ms. Deepika Karthik Kumar

(Parallel sessions for Batch 1 & 2)

\*Lunch and Tea/Coffee provided



## Schedule For Lecture Series & Workshop

### Integral Role of Genetic Counselling in Healthcare Management

#### DAY 1 – Lecture Series

**Venue – TT Gallery (Room No. 233/234 Technology Tower)**

9:00 - 10:00 AM	Genetic Counselling in the Genomic Era- Dr. G. Kumaramanickavel
10:00 - 11:00 AM	Genetic Counselling for pre-implantation Genetic Testing (PGT)- Dr. Alpesh Patel
11:00 - 11:15 AM	Tea Break
11:15 AM - 12:15 PM	Empowering Precision Care: Role of Genetic Counsellors in Cancer Management- Ms. Niby Jacob
	Q&A session up to 12:45 pm
12:45 - 2:00 PM	Lunch Break
2:00 - 3:00 PM	Supporting client journey: Integration of genetic counselling from preconception to paediatric care - Ms. Neeraja Reddy Mallela
3:00 - 3:15 PM	Tea Break
3:15 - 4:15 PM	Genetic counselling in neurodevelopmental disorders - Ms. Brinda Ramanathan
4:15 - 5:15 PM	Ethical, legal, and social issues (ELSI) in Human Genetics - Dr. Trupti Patel

#### DAY 2 – Workshop

**Venue – Rajaji Hall (Room No. 230 – MGR Block)**

8:00 - 9:00 AM	Case Studies and Session on Genetic Counselling in Cancer - Ms. Niby Jacob
9:00 - 10:00 AM	Session on Genetic Counselling in Prenatal and Preimplantation Genetics - Ms. Neeraja Reddy Mallela
10:00 - 10:15 AM	Tea Break
10:15 - 11:15 AM	De-mystifying genetic and genomic testing - Dr. Teena Koshy
11:15 AM – 12:15 PM	Genetic Counselling as a Profession: An Overview - Dr. G. Kumaramanickavel
12:15 - 1:00 PM	Lunch Break

#### Post -Lunch Session

Batch A (MGR-230)			Batch B (SMV 209)		
Time	Faculty	Session Details	Time	Faculty	Session Details
1:00 PM	Dr GKM/BR	Basics of Genetic Counselling (Case history and Pedigree taking)  Case discussion in Mendelian Genetics  Mock Case Presentations by students	1:00 PM	Dr TK/DKK	Basics of Genetic Counselling (Case history, Pedigree taking)  Case discussion in Cytogenetics, Copy Number Variants  Mock Case Presentations by students
2:15 PM	Dr TK/DKK	Basics of Genetic Counselling (Case history, Pedigree taking)  Case discussion in Cytogenetics, Copy Number Variants  Mock Case Presentations by students	2:15 PM	Dr GKM/BR	Basics of Genetic Counselling (Case history and Pedigree taking)  Case discussion in Mendelian Genetics  Mock Case Presentations by students

Faculties: Dr G Kumaramanickavel (GKM), Dr Tina Koshi (TK), Brinda Ramanathan (BR), Deepika Karthik Kumar (DKK)

- \* Lunch will not be provided on Day 1; provided on Day 2; \* Tea/Coffee provided
- \* OD provided to the students who attend all sessions
- \* E-certificates will be given to all participants