



MARUDHAR KESARI JAIN

COLLEGE FOR WOMEN

(AUTONOMOUS)

Vaniyambadi, Tirupattur DT - 635 751, Tamilnadu, India.

Recognized u/s 2(f) & 12(B) of UGC Act 1956 | Accredited with "A+" Grade by NAAC (4th Cycle) | Permanently Affiliated to Thiruvalluvar University | Supported by DST - FIST



School of Life Sciences

Department of Biotechnology, Biochemistry, Foods & Nutrition and Microbiology in association with Faculty of Science, Sigma University, Vadodara, Gujarat



Jointly Organizes

MoU Activity

Webinar on
Nanobiotechnology in Disease Management and Sustainable Agriculture

Resource Person



Dr. Shailja Dhiman

(Ph.D. Microbial Technology, GATE & NET)

Assistant Professor, Department of Life Sciences
Faculty of Science, Sigma University
Vadodara, Gujarat

Date : 17.12.2025 | Time : 09.30 am

Venu : PRINCE Arifianth Seminar Hall

Marudhar Kesari Jain College

for Women (Autonomous)

Vaniyambadi, Tirupattur District

V. Dilip Kumar Jain **Anand Singhvi** **Dr. M. Inbayalli** **Dr. H. S. Sankaran Sithic** **Dr. C. Asokan**
President Secretary Principal Principal Principal Dean



Marudhar Kesari Jain College for Women (Autonomous), Vaniyambadi



(A Project of Sri Marudhar Kesari Jain Trust)

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SCHOOL OF LIFE SCIENCES

**Department of Biotechnology, Biochemistry, Foods & Nutrition and Microbiology in
Association with Faculty of Science, Sigma University, Vadodara, Gujarat**

JOINTLY ORGANIZES

MoU Activity

**Webinar: Nanobiotechnology in Disease Management and Sustainable
Agriculture**

Date: 17.12.2025

Time: 9:30 AM

Venue: Sri Arihanth Seminar Hall

AGENDA

Prayer

Welcome Address

: Ms S Tabassum, III B.Sc Biotechnology

Felicitation Address

: Dr M Inbaballi, Principal

Introduction of the Guest

: Ms M Saniya Sadaf, III B.Sc Biochemistry

: Dr Shailja Dhiman

(Ph D. Microbial Technology, GATE & NET)
Assistant Professor, Department of Life Sciences,
Faculty of Science, Sigma University, Vadodara, Gujarat

Chief Guest Address

Vote of Thanks

: Ms K Kiruthika, III B.Sc FSM & Dietetics

National Anthem

Mastering

: Ms K A Khizra Kownain, III B.Sc Biotech

PRINCIPAL

Marudhar Kesari Jain College
for Women (Autonomous)
Vaniyambadi - 635 751.
Tirupattur District

ALL ARE CORDIALLY INVITED



**MARUDHAR KESARI JAIN
COLLEGE FOR WOMEN (AUTONOMOUS), VANIYAMBADI**

Activity Report

Name of the Department	SCHOOL OF LIFE SCIENCES Department of Biotechnology, Biochemistry, Foods & Nutrition and Microbiology in Association with Faculty of Science, Sigma University, Vadodara, Gujarat		
Title of the Programme	Nanobiotechnology in Disease Management and Sustainable Agriculture		
Association With	Faculty of Science, Sigma University, Vadodara, Gujarat		
Alignment of this Programme with	SDGs <input checked="" type="checkbox"/> Viksit Bharat 2047 <input checked="" type="checkbox"/> State / National Schemes <input type="checkbox"/> NEP 2020 <input checked="" type="checkbox"/> MOU activity <input checked="" type="checkbox"/> Others <input type="checkbox"/>		
Mode	Hybrid		
Type of Activity	MoU Activity- Webinar		
Level	National		
Date	17.12.2025	From	To
Venue	Sri Arihanth Block Seminar Hall		
Resource Person Details	Dr Shailja Dhiman Ph D. Microbial technology, GATE & NET Assistant Professor, Department of Life Sciences, Faculty of Science, Sigma University, Vadodra, Gujarat		

Objectives

1. To create awareness among students and faculty about the applications of Nanobiotechnology in disease diagnosis, prevention, and management.
2. To highlight the role of Nanobiotechnology in sustainable agriculture, including improved crop protection, nutrient delivery, and environmental safety.
3. To provide interdisciplinary knowledge integrating Biotechnology, Biochemistry, Microbiology, and Foods & Nutrition.

Summary Report

The School of Life Sciences of Marudhar Kesari Jain College for Women (Autonomous), Vaniyambadi, comprising the Departments of Biotechnology, Biochemistry, Foods & Nutrition, and Microbiology, in association with the Faculty of Science, Sigma University, Vadodara, Gujarat, successfully organized a **national-level MoU activity (Webinar)** titled "**Nanobiotechnology in Disease Management and Sustainable Agriculture**" on **17 December 2025**. The programme was conducted in **hybrid mode** at the **Sri Arihanth Block Seminar Hall**.

The programme witnessed active participation from **506 students** drawn from various departments of the School of Life Sciences. The session was handled by **Dr. Shailja Dhiman**, Assistant Professor, Department of Life Sciences, Faculty of Science, Sigma University, Vadodara, Gujarat. The resource person delivered an informative and engaging lecture focusing on the emerging applications of nanobiotechnology in healthcare and sustainable agricultural practices.

During the session, Dr. Shailja Dhiman elaborated on the significance of nanomaterials in disease diagnosis, targeted drug delivery systems, antimicrobial therapies, and precision medicine. She also highlighted the growing importance of nanobiotechnology in sustainable agriculture, emphasizing advanced nutrient delivery mechanisms, improved crop protection strategies, and environmentally friendly approaches aimed at enhancing agricultural productivity while minimizing ecological impact.

The lecture effectively integrated concepts from biotechnology, biochemistry, microbiology, and food and nutrition sciences, thereby offering participants a comprehensive interdisciplinary understanding of the subject. An interactive discussion session followed the lecture, during which students actively participated by raising questions related to research scope, safety considerations, ethical aspects, and future career opportunities in the field of nanobiotechnology.

Overall, the programme successfully enhanced scientific awareness, encouraged research orientation among students, and strengthened academic collaboration under the **Memorandum of Understanding (MoU)** between Marudhar Kesari Jain College for Women and Sigma University. The programme was well aligned with the objectives of **NEP 2020**, the **Sustainable Development Goals (SDGs)**, and the vision of **Viksit Bharat @ 2047**, contributing to quality higher education and sustainable scientific development.

Outcome of the Program:

1. The programme enhanced students' understanding of nanobiotechnology applications in disease management and sustainable agriculture.
2. Participants gained exposure to current research trends and interdisciplinary approaches in life sciences.
3. The session motivated students to pursue research, innovation, and higher studies in emerging scientific fields.

Participants Count :

Internal Participants : Faculty- ; Students : 513

External Participants : Faculty -Nil; Students -Nil

R. Mahadevan

HOD

Asst Prof
17/12/23

Dean

Qur
26/12/23

IQAC Director

Principa
Principal

PRINCIPAL

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for Women (Autonomous)
Vaniyambadi - 635 751.
Tirupattur District**



MARUDHAR KESARI JAIN

COLLEGE FOR WOMEN (AUTONOMOUS), VANIYAMBADI
SCHOOL OF LIFE SCIENCES IN ASSOCIATION WITH FACULTY OF SCIENCE,
SIGMA UNIVERSITY, VADODARA, GUJARAT

WEBINAR ON NANOBIOTECHNOLOGY IN DISEASE MANAGEMENT AND
SUSTAINABLE AGRICULTURE

Date-17.12.2025



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