MARUDHAR KESARI JAIN COLLEGE FOR WOMEN

(AUTONOMOUS)

VANIYAMBADI, TIRUPATTUR DT – 635 751

- Recognized u/s 2(f) & 12(B) of UGC Act 1956
- Permanently Affiliated to Thiruvalluvar University
- Supported by DST - FIST | DBT STAR College Scheme

NAAC A+ | 4 Star Rated INSTITUTION'S INNOVATION COUNCIL

PG & Research Department of Biochemistry

Organizes

Outreach Scientific Skill Development Activity on

Identification ABO Blood Grouping

A B AB O

Supported by

DBT STAR COLLEGE SCHEME

Date : 29.08.2026 | Time : 10.00 am | Venue : Biochemistry Lab

CHIEF GUEST

Ms. R. Padmini

Assistant Professor

Department of Biochemistry

MKJC, Vaniyambadi

Sri. V. Dilip Kumar Jain	Sri. Anand Singhvi	Dr. M. Inbavalli	Dr. M. Gomathi	Dr. M. Renuka
President	Secretary	Principal	Dean	Head I/c

PRINCIPAL
Marudhar Kesari Jain Colle
for Women (Autonomous

MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS)
VANIYAMBADI

PG & RESEARCH DEPARTMENT OF BIOCHEMISTRY
Organizes
DBT STAR COLLEGE SCHEME ACTIVITY
Outreach Scientific Skill Development Activity
On
Identification of ABO Blood Grouping
Supported by DBT STAR College Scheme

AGENDA

Date: 29.08.2026

Venue: Biochemistry Lab **Time: 10.00 A.M**

- **Prayer**
- **Welcome Address** : **Dr. M.Renuka, Head (In-charge), Department of Biochemistry**
- **Introduction to ABO Blood Group System** : **Ms.R Padmini, Assistant Professor of Biochemistry**
- **Theory Session** : **Ms. Padmini, Assistant Professor of Biochemistry**
- **Demonstration of ABO Blood Group Identification** : **Dr. Renuka, Assistant Professor of Biochemistry**
- **Hands-on Training / Practice** : **Students with guidance from Dr. Renuka, Assistant Professor of Biochemistry**
- **Observation and Interpretation of Agglutination Reactions** : **Guided practical activity**
- **Laboratory Assistance** : **Ms. L.Udayavani, Lab Assistant**
- **Vote of Thanks** : **PG & Research Department of Biochemistry**

Learn → Demonstrate → Practice → Observe → Interpret

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College for Women (Autonomous), Vaniyambadi

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Activity Report

Outreach Scientific Skill Development Activity on Identification ABO Blood Grouping

Input

The PG & Research Department of Biochemistry, School of Life Sciences, organized an Outreach Scientific Skill Development Activity on Identification of ABO Blood Grouping, supported by the DBT STAR College Scheme. The programme was conducted for the students of Sigaram Matriculation Higher Secondary School, Vaniyambadi, at 29.08.2026. With the objective of introducing students to basic concepts of blood grouping and providing practical exposure to a simple laboratory-based biological technique.

Objectives of the Programme

The major objectives of the programme were to:

- To introduce students to the ABO blood group system and its biological significance.
- To explain the basic principles of antigen–antibody reactions involved in blood grouping.
- To provide students with hands-on exposure to ABO blood group identification.
- To develop basic scientific and laboratory skills among school students.
- To promote experiential and activity-based learning in Life Sciences.
- To create awareness about the importance of knowing one's blood group for healthcare and emergency situations.
- To encourage school students to develop an interest in Biochemistry and Life Sciences.

Process

The activity was conducted through a combination of theoretical orientation, demonstration and hands-on practical training.

Theory Session

Ms. R.Padmini, Assistant Professor of Biochemistry, introduced the students to the ABO blood group system. She explained the concepts of A, B and O blood groups, antigens, antibodies, agglutination reactions and the importance of blood group identification.

Demonstration and Hands-on Training

Dr. M.Renuka, Assistant Professor of Biochemistry, conducted the practical demonstration and guided the students in the procedure for ABO blood group identification. Students were given an opportunity to observe the testing procedure and understand the interpretation of agglutination reactions.

Laboratory Assistance

Ms.L. Udayavani, Lab Assistant, provided laboratory support and assisted in arranging the materials and ensuring the smooth conduct of the hands-on activity.

The activity followed a Learn → Demonstrate → Practice → Observe → Interpret approach, enabling students to connect theoretical concepts with practical experience.

Output

- School students were introduced to the ABO blood grouping system.
- Students gained practical exposure to a basic biochemical/biological laboratory technique.
- Students observed the principles of antigen–antibody interaction and agglutination.
- Students participated in a hands-on scientific learning activity.
- Basic laboratory handling and observation skills were developed.
- Awareness regarding the importance of blood group identification was enhanced.
- The activity strengthened school–college scientific outreach under the DBT STAR College Scheme.

This programme can be mapped primarily to SDG 4 – Quality Education, SDG 3 – Good Health and Well-being, SDG 10 – Reduced Inequalities.

Outcome

- Students developed a better understanding of ABO blood grouping through experiential learning.
- Students were able to relate the theoretical concepts of antigens, antibodies and agglutination to a practical application.
- The activity improved students' scientific curiosity, observation and practical skills.
- Students gained confidence in participating in laboratory-based scientific activities.
- The programme encouraged students to explore Biochemistry, Immunology, Molecular Biology and other Life Science disciplines as areas of higher education and career interest.
- The outreach activity contributed to the promotion of scientific temper and hands-on learning among school students.

The activity successfully connected higher education, school education and community outreach by providing school students with an opportunity to learn a basic laboratory technique through direct participation. The programme supported the objectives of the DBT STAR College Scheme by promoting practical learning, scientific skill development and interest in Life Sciences.

For R.P.

Head of the Department

DBT- Star Cordinator

11/9/2026

IQAC Director

Principal

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Tirupattur District

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Outreach Scientific Skill Development Activity on Identification ABO Blood Grouping

Organised by: PG & Research Department of Biochemistry, School of Lifesciences

Institution: MarudharKesari Jain College for Women (Autonomous), Vaniyambadi

Date: 29 August 2026

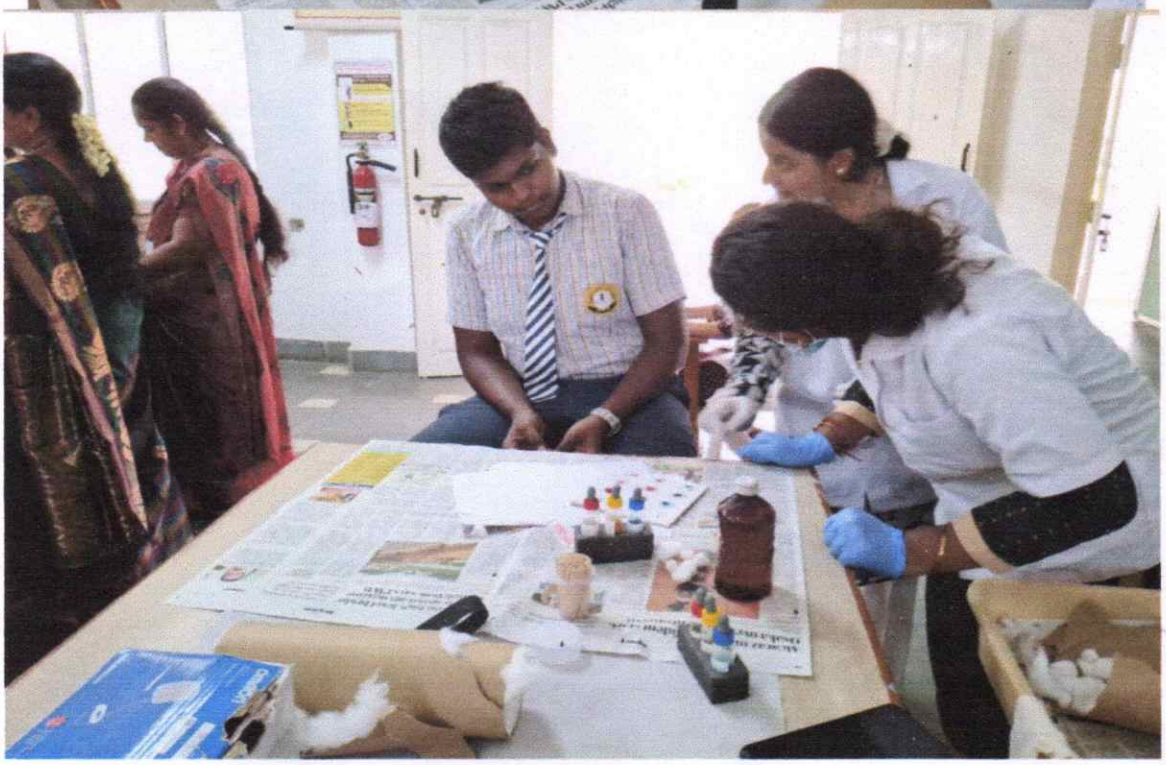
Time: 10.00 a.m. to 12.00 pm

Venue: Biochemistry Lab

Activity: Outreach activity

Support: DBT STAR College Scheme

PHOTOS



Principal

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