



You Choose, We Do It

St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, CHENNAI - 119



BIO



VOICE



DEPARTMENT OF BIOTECHNOLOGY

NEWSLETTER

October 2025

About Us

The Biotechnology Department was incepted in the year 2002 and Accredited by NBA.

Having a state-of-art laboratory, the department offers both Bachelors and Ph.D courses which are affiliated with Anna University, Chennai

Vision

To provide a world-class department to facilitate learning, training and research in Biotechnology by providing infrastructural facilities and competent faculty leading to technological innovations to serve the global society

Mission

The Mission of the Department is to provide quality education to students and to produce competent Biotechnologists to meet the challenges faced by industry and mankind.

To inculcate high moral and professional standards among our students.

To develop the overall personality of the students.

STUDENT ACHIEVEMENTS

Placement

Our final year student **Ferlinsa J** as been placed in **Unisys Technical Solutions** with a **CTC of 6000 AED** per annum



UNISYS TECHNICAL SOLUTIONS
Warehouse G1-21, Ajman Free Zone (UAE)
+971-6-8814801 | sales@unisystechnical.com

Appointment Letter

Ref : UTS/APP/2025-032
Date : September 15, 2025

To
Ms. Ferlinsa Maxmillian,
Mobile : +916385641675
Passport No. : W9602294
Email ID : mferlinsa@gmail.com

Dear Ms. Ferlinsa,

We are pleased to offer you the position of **Junior Electronics/ Bio Medical Engineer** at Unisys Technical Solutions FZC, Ajman Free zone, Ajman, UAE.

REMUNERATION:
The Monthly compensation package break down will be as stated below:

| Amount in AED/Per Month | |
|-------------------------|------------|
| Basic Salary | : 3,500.00 |
| Other Allowances | : 1,500.00 |
| Gross Salary | : 5,000.00 |

OTHER BENEFITS will include:

| | |
|----------------------------|--|
| Accommodation | : Will be borne by company for self only. |
| Transportation | : Transportation for the site work will be provided by Company. |
| Health Insurance | : Shall be provided as per UAE law for self only. |
| Group Life Term Insurance | : Shall be provide for self only. |
| Air Ticket Res. Country | : Return Ticket Allowance will be given as per company policy after every 1 Year of service for self only. |
| Visa and Medical Expenses | : Will be borne by company for self only. |
| End of Service entitlement | : As per UAE Law |

ANNUAL VACATION:
In addition to local statutory holidays your paid annual vacation entitlement will be 30 days after every one year of service. If you leave the employment at the end of the contract period, you will be entitled to such paid holiday leave as has accrued up to the last day at work. Excess leave taken above your entitled leave shall be deducted from your final settlement.

SICK LEAVE
To avail a sick leave, on the day of rejoining the staff must submit his/her sick leave certificate generated by a competent authority in the Emirates like DHA or HAAD, certified by a Doctor with MOH License in UAE. Non submission of sick leave certificate will be treated as unpaid leave / absent and shall be subject to disciplinary actions.

Working Days
Working Days will be 6 days in a week from Saturday to Friday.

PROBATION PERIOD
You will be under probation for 6 months from the date of joining. Your Date of Joining will be _____

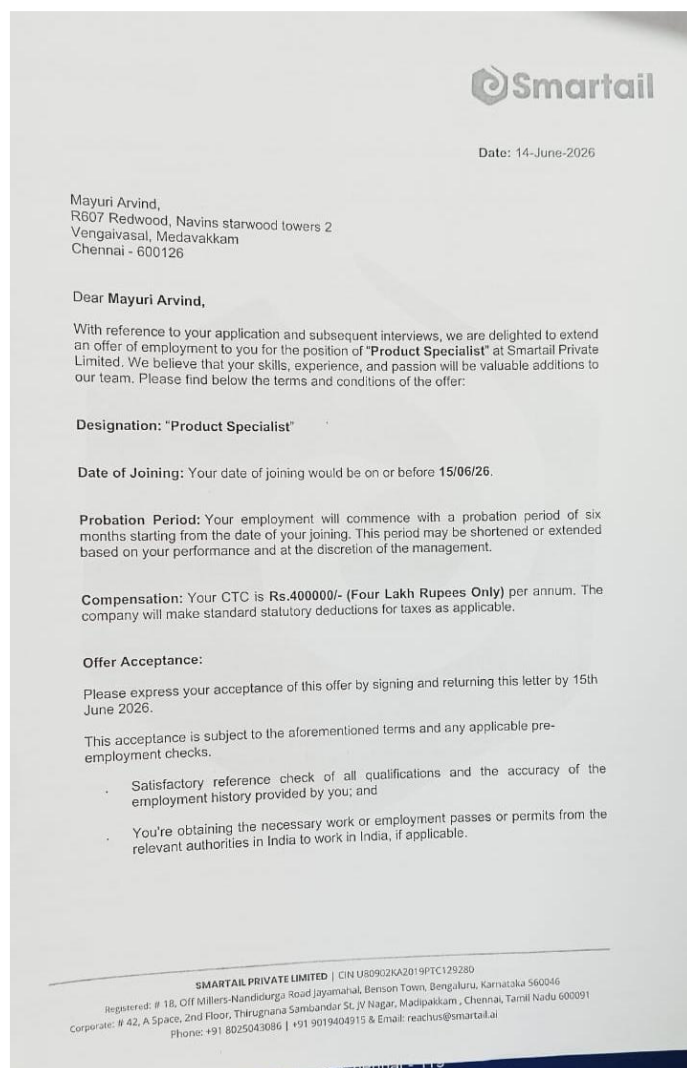
TRN# 100572098000003 | www.unisysgroup.ae | Page 1 of 2

UNISYS TECHNICAL SOLUTIONS

STUDENT ACHIEVEMENTS

Placement

Our Biotechnology students **Mayuri Arvind** (IV year) as been placed in **Smartail Pvt Ltd** with a CTC of 4 lakh per annum



STUDENT ACHIEVEMENTS

Prize Winners

Our Biotechnology students **Ritihashri N** (IV year) and **Abirami S** (III year) have secured third positions in paper presentation conducted by EGS Pillay Engineering College on 6th October



STUDENT ACHIEVEMENTS

Prize Winners

Divyadharshini K., Trisha M.A., and Jafferine D.R., III year students participated and won first place in the National Conference on Applied Microbiology and Antimicrobial Resistance (NCAMAR-2025) held at SRM Institute of Science and Technology, Kattankulathur Campus, Chennai, on October 9–10, 2025.



STUDENT ACHIEVEMENTS

NPTEL Medal Winners

Our Biotechnology students have showcased academic excellence by securing medals in the NPTEL examinations, reflecting their dedication and strong conceptual understanding.

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 **32**
Years of Excellence
OMR, CHENNAI - 119

 **Department of Biotechnology** 
IV Year 2022-2026
NPTEL- SILVER MEDAL WINNERS

| | | | |
|---|--|--|--|
|  Akshaya A 312322214003 |  Amsaprabha A P 312322214004 |  Hallina M 312322214015 |  Jayashri B S 312322214020 |
|  Kanaga Durga E 312322214024 |  Keerthana A 312322214027 |  Nithya R 312322214035 | |
|  Rajalakshmi P 312322214036 |  Stephen Daniel Soyza S312322214047 |  Swathi V 312322214050 | |

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STUDENT ACHIEVEMENTS



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DEPARTMENT OF BIOTECHNOLOGY



NPTEL GOLD ACHIEVERS

III YEAR
BATCH: 2023-27



Aloysius Rancy A
312323214002



Deepika M
312323214009



Sowmiya M
312323214048



Vijhay Krishnaa B
312323214059



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NPTEL SILVER ACHIEVERS


NPTEL
**III YEAR BATCH:
2023-27**


Abirami S
312323214001


Amirtha Varshini K
312323214003


Harsha D
312323214017


Harshitha P
312323214019


Jayanthika V
312323214021


Kavindra L
312323214027


Maria Tressa T
312323214031


Kowshica N
312323214029


Nandita R
312323214034


Poshika B T
312323214036


Priyanka S J
312323214040


Supraja R
312323214050


Susmithaa S
312323214051


Sanjay Kumar S
312323214043


Sherwin Dominicjose
312323214045


Sivaprakash S
312323214046



Varshini B
312323214057

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DEPARTMENT OF BIOTECHNOLOGY


NPTEL ELITE ACHIEVERS

Elite



III YEAR
BATCH: 2023-27



| | | | | |
|--|---|---|---|--|
|  <p>Ananda Ithayan 312323214004</p> |  <p>Gowtham V 312323214014</p> |  <p>Hariharan D K 312323214015</p> |  <p>Santhosh M D 312323214044</p> |  <p>Pragadees U 312323214037</p> |
|  <p>Jafferin D R 312323214020</p> |  <p>Madeehah S 312323214030</p> |  <p>Dharshini V 312323214011</p> |  <p>Dhivya Dharshini K 312323214012</p> |  <p>Chandrika L 312323214007</p> |
|  <p>Atchaya N 312323214006</p> |  <p>Deepika R 312323214010</p> |  <p>Jeevantika J 312323214023</p> |  <p>Kavya Jayamoorthy K 312323214028</p> |  <p>Karpagam R 312323214026</p> |





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Department of Biotechnology
NPTEL SILVER MEDAL ACHIEVERS

| | | | |
|---|---|--|--|
|  ANGELIN ASHNA A S 312324214003 |  HARINI M 312324214016 |  HARINI S R 312324214017 |  MERCY SHALIN A 312324214028 |
|  NETHRA SRINIVASAN 312324214032 |  NITHYASHREE G 312324214034 |  NIVEDHITHA V S 312324214035 |  PRADEEPTHIKA K H 312324214039 |
|  |  RASHMIKA RAGHUNATH NAIR 312324214046 |  SABRIN H 312324214048 |  |

Batch 2024-2028



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NPTEL ELITE ACHIEVERS



ADDLENE PONSIYA K
312324214001



JOTHEESWARI G
312324214021



ARUNASRI P M
312324214007



ARUNA P
312324214006



BALAMURUGAN S
312324214009



NIKHILA S
312324214033



JANANI R
312324214020



HARSHITHA R
312324214019



DEVAPRAKASH K
312324214010



DEVAPRAKASH K
312324214010



DEVAPRAKASH K
312324214010



DEVAPRAKASH K
312324214010

BATCH 2024 - 2028

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DEPARTMENT OF BIOTECHNOLOGY NPTEL ELITE ACHIEVERS



NIVETHA M
312324214036



POOJA PARAKUNNI S
312324214038



SMERA ATHIBAN
312324214053



SRI VIDYA A B
312324214054



VARNIKA S
312324214059



THIRUTAMIL SACHIN A
312324214058



VARUN RAAJA M R
312324214060



VEDIYAPPAN P
312324214061



AKSHAYA S
312324214002

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Paper Publication

Dr. G. Baskar and co-authors Raja Mohammed Khader, Subhashini Pandey and Praveen Kumar Vemula published the research article “**Optimizing Hydrophobic Chain Length in Cardanol-Based Quaternary Ammonium Compounds Enhances Gene Delivery Efficiency**” in *Chem Nano Mat Journal*.



Research Article

Optimizing Hydrophobic Chain Length in Cardanol-Based Quaternary Ammonium Compounds Enhances Gene Delivery Efficiency

Rajamohammed Khader, Subhashini Pandey, Gurunathan Baskar ✉, Praveen Kumar Vemula ✉

First published: 06 October 2025 | <https://doi.org/10.1002/cnma.202500356>

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Abstract

The present study explores innovative design principles for cationic lipid-based gene delivery agents. It is demonstrated that cardanol, a blend of phenolic lipids with varying degrees of unsaturation, serves as an effective lipid moiety for cell transfection. A series of asymmetric, cardanol-based quaternary ammonium compounds (QACs) for gene delivery in K562 cell lines is synthesized. The resulting liposomes, characterized by their asymmetric tails, exhibit enhanced fusogenicity. Notably, lipids featuring cardanol as one tail and an aliphatic C12 or C14 chain as the second tail achieve higher transfection efficiency. The present study contributes to the development of key methodologies for optimizing transfection efficiency in K562 cell lines.

STAFF ACHIEVEMENTS

Participated in National Day Celebration

Dr. G. Baskar from the Department of Biotechnology participated in the **114th National Day Celebration of Taiwan** on **October 9, 2025**. The event featured distinguished guests and celebrated **Taiwan's international collaborations**.



STAFF ACHIEVEMENTS

Virtual Seminar

Dr. M. Chamundeeswari, Associate Professor, Department of Biotechnology, has participated in the virtual seminar on the theme “Medical Devices Regulation and Vigilance in Medicines: Safeguarding Healthcare” organized by Indian Pharmacy Graduates’ Association South Zone Women Forum on 28th September 2025 to commemorate World Pharmacists Day 2025.



STAFF ACHIEVEMENTS

Certificate of Participation

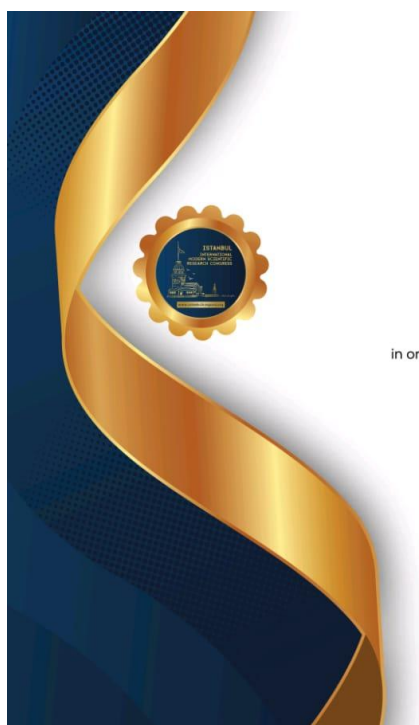
Dr. M. Chamundeeswari attended the **18th ISPEC International Conference on Agriculture, Animal Science & Rural Development**, held online and in-person on **October 24–26, 2025** with an oral presentation entitled **“Green synthesized iron nanoparticle based detection of microplastics from aqueous environment”**



STAFF ACHIEVEMENTS

Certificate of Participation

Dr. M. Chamundeeswari from the Department of Biotechnology participated in the **8th International Istanbul Current Scientific Research Congress** held from **October 10–12, 2025**, in **Istanbul, Türkiye**. She contributed with an oral and technical presentation showcasing her research work on an **ecological approach to microplastic detection and sustainable remediation**.



CERTIFICATE OF PARTICIPATION

This certificate is proudly presented to

Chamundeeswari Munusamy

in oral and technical presentation, recognition and appreciation of research contributions to
8th INTERNATIONAL ISTANBUL CURRENT SCIENTIFIC RESEARCH CONGRESS
held on October 10-12, 2025 / Istanbul, Türkiye
with the paper entitled

ECOLOGICAL WAY TO DETECT THE MICROPLASTICS- A SUSTAINABLE
MICROPLASTIC REMEDIATION APPROACH

Prof. Dr. Osman ERKMEN
Head of Congress

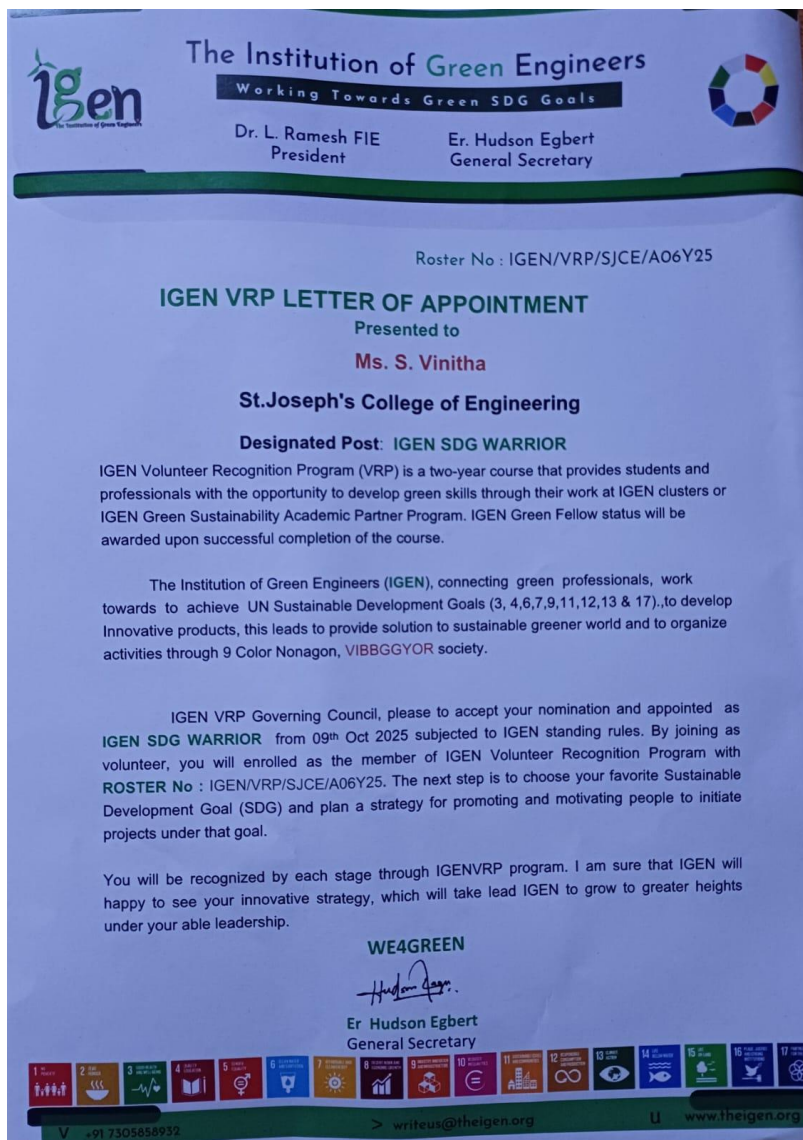
October 10-12, 2025 / Istanbul, Türkiye
8th INTERNATIONAL ISTANBUL CURRENT SCIENTIFIC RESEARCH CONGRESS



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Certificate of Appreciation

We are proud to announce that **Ms. S. Vinitha** has been selected as an **IGEN SDG Warrior** by the **Institution of Green Engineers**.





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Dean-Research
Dr. A. Chandra Sekar,
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M.Sc., M.Tech, Ph.D.

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Department of Biotechnology

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