

A.D.M. COLLEGE FOR WOMEN (AUTONOMOUS)



(Accredited with 'A' Grade by NAAC – 4th Cycle)

Affiliated to Bhatiaithidasan University,

Tiruchirappalli

NAGAPATTINAM – 611 001



ADM DBT NEWS LETTER

April 2025 – September 2025



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ADM DBT NEWS LETTER

April 2025 – September 2025

Message from the DBT Programme Coordinator

Dear Members,

It is with great pleasure that I welcome you to this edition of our newsletter. Each issue represents more than just updates and announcements—it reflects the dedication, collaboration, and shared vision that drive our community forward. Over the past period, we have witnessed remarkable progress, inspiring initiatives, and the continued commitment of individuals who generously contribute their time, skills, and passion.

In this edition, you will find highlights of our recent activities, upcoming events, and stories that showcase the impact of our collective efforts. I encourage you to take a moment to read through, celebrate our achievements, and stay informed about what lies ahead.

As we move forward, let us continue to strengthen our partnerships, support one another, and remain focused on our goals. Together, we can build on our successes and create even greater opportunities for growth and excellence.

Thank you for your ongoing support and engagement. Your involvement truly makes a difference.

Warm regards,
Dr. R. Priscilla
DBT Programme Coordinator

DBT STAR College Scheme

Highlights of the Year 2025–2026

National / International Level Webinar / Seminar (3)

1. Nucleic Acid Aptamer for the Diagnosis & Treatment of Cancer
2. Applied Mathematics in Thermal and Medical Sciences
3. Artificial Intelligence (AI) in Radiotherapy: From Better Diagnosis to Accurate Treatment and Inspiring Tomorrow's Researchers

Outreach Programme – School / Public (Village) (8)

1. Skill Training on the Preparation of Value-Added Ready-to-Eat Fishery Products
2. Preparation of Value-Added Fishery Products and Marketing Strategies
3. Nutrition Millets Food Preparation & Organic Kajal Making
4. Bubbles & Beyond
5. Illam Thedi Kanitham
6. Health and Hygiene for Rural Women
7. Electrical Energy Conservation and Safety Measures for Rural Women
8. Safe Animals, Save Society

Skill Training and Hands-on Workshops (24)

1. Bioprospecting Natural Products for Drug Discovery: An Ethnopharmacological Approach
2. Scientific Cultivation of Mango
3. Alternative to Plant Experiments in Life Science Research
4. Blue Economy Meet Up – Arifa Institute of Technology
5. Drone Operating Skills
6. Digital Marketing
7. DREAMGEN–2025 Business, Startup & Franchise Expo (Investor Meet)
8. Importance of Fin Fish and Shell Fish Based Marine Food Products in Human Health
9. Recent Trends in Contemporary Value-Added Seafood Products

10. Skill Development Programme on Biochemical Techniques
11. Open Source Tools in Chemistry
12. A Practical Roadmap for Organic Research with Spectroscopic Applications
13. Methodologies of Water Quality Parameters
14. Chromatography
15. AI Tool Shaping Tomorrow's Learners
16. Bioinformatics and NCBI Database Tools
17. IoT in Industry 4.0
18. AI in Education and Accessibility
19. Gen AI
20. Numerical Computing with SCILAB
21. Project Writing Skills
22. Drone – The Future
23. Embedded Systems and IoT
24. Bio Prospecting Marine Organisms: Advantages and Applications

Educational Field Trip / Industrial Visit (3)

1. Bharathiar University; IFGTB–ICFRE, Coimbatore; Botanical Survey of India (Southern Regional Centre); Tea Factory Museum, Ooty
2. CSIR – Central Electrochemical Research Institute (CECRI), Karaikudi
3. Educational Tour to Planetarium, Tiruchirapalli

Guest Lecture (3)

1. Retort Processing Technology
2. Strategies to Overcome Radiation Resistance in Uterine Cervical Cancer
3. Applications of Fluid Dynamics in Biotechnology

Seminar / Webinar (6)

1. PHP Web Application
2. AI for Everyday Impact: Practical Tools to Enhance Learning and Creativity
3. Cloud Computing
4. Active Server Page
5. Mastering the Art of Project Writing – From Idea to Final Report
6. A Flash on Entrepreneurship in Aquaculture

Lecture / Webinar Series (4)

1. The Power of Structure of Group Theory in Modern Applications
2. Programming in Python
3. Embedded Systems and IoT
4. Agricultural Chemistry

Faculty Development Programme (1)

1. Learning Outcome Based Curriculum Framework

Exhibition (1)

1. Two Days “Science Expo Spark 2K25”

Internship (8)

1. Skill Development Training Programme on High-Resolution Imaging Techniques
2. Paints and Coatings for Corrosion Protection
3. Contemporary Aspects of Chemistry – Summer Training Programme 2025 (IIT Madras)
4. Fish Processing Machineries and Techniques
5. Skill Training on Medical Lab Practices
6. Herbarium Methodology and Digitalization – Botanical Survey of India
7. ICAR–Krishi Vigyan Kendra, Nagapattinam
8. Science City, Department of Higher Education, Government of Tamil Nadu, Chennai

DEPARTMENT NEWS

DEPARTMENT OF BOTANY

Academic Activities 2024–2025



Internship Programme

Date: 12.05.2025 – 23.05.2025

Beneficiaries: 08 Students

Place: ICAR–Krishi Vigyan Kendra, Nagapattinam

Bioprospecting Natural Products for Drug Discovery: An Ethnopharmacological Approach

Date: 12.08.2025

Beneficiaries: 54 Students

Resource Person: Dr. Karuppusamy Arunachalam, Ph.D., MRSB

Visiting Professor, Federal University of Mato Grosso do Sul, Brazil



Scientific Cultivation of Mango

Date: 13.08.2025

Beneficiaries: 97 Students

Resource Person: Mr. K. Ragu

Subject Matter Specialist (Horticulture), ICAR–Krishi Vigyan Kendra, Nagapattinam

Botany Education Tour

Date: 28.08.2025 – 30.08.2025

Beneficiaries: 20 Students, 2 Staff

Resource Persons:

Dr. S. Velayuthaprabhu, Asst. Prof., Biotechnology, Bharathiar University, Coimbatore.

Dr. S. Arumugam, Botanist, BSI, Coimbatore.

Dr. D. Thangamani, Scientist, ICFRE–Institute of Forest Genetics and Tree Breeding, Coimbatore.



Alternative to Plant Experiments in Life Science Research

Date: 01.09.2025

Beneficiaries: 53 Students

Resource Person: Dr. S. Achiramam, Professor, Department of Environmental Biotechnology, Bharathidasan University.

Science Expo “Spark 2K25”

Date: 10.09.2025 & 11.09.2025

Beneficiaries: 900 Students



Internship Programme in Herbarium Methodology and Digitalization

Date: 24.11.2025 – 12.12.2025

Beneficiaries: 05 Students

Place: Botanical Survey of India, Southern Regional Centre, Coimbatore.

DEPARTMENT OF B.VOC MARINE FOOD PROCESSING AND PRESERVATION TECHNOLOGY

Academic Activities 2024-2025

Blue Economy Meet Up

Venue: Arifa Institute of Technology, Esanoor

Date: 30.05.2025

Beneficiaries: 11 Students

Resource Person: Dr. Anand Thirunavukarasu,
Head, SRIIC, SRIHER, Chennai



Hands-on Training on Drone Operating Skills

Date: 02.06.2025

Beneficiaries: 12 Students

Resource Person: Mr. A. Neyan, Director, Eagle
Drone Innovation Pvt. Ltd, Nagapattinam

Venue: Arifa Institute of Technology, Esanoor

One Day Workshop on “Project Writing Skills”

Date: 31.07.2024

Beneficiaries: 125 Students

Resource Person: Dr. P. Karthickumar, Assistant Professor, College of Fisheries Engineering, Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam





DREAMGEN – 2025 Business, Startup & Franchise Expo (Investor Meet)

Date: 02.08.2025

Beneficiaries: 03 Students

Venue: Rail Mahal, Trichy

Guest Lecture on “Retort Processing Technology”

Date: 05.08.2025

Beneficiaries: 75 Students

Resource Person: Mrs. S. Vimaladevi, Assistant Professor, Department of Fish Processing Technology, Dr. MGR Fisheries College and Research Institute, Thalainayeru



One-Day Workshop on “Importance of Fin Fish and Shell Fish Based Marine Food Products in Human Health”

Date: 07.08.2025

Beneficiaries: 80 Students

Resource Person: Dr. M. Arumugam, Associate Professor, CAS in Marine Biology, Annamalai University, Chidambaram

One-day workshop on “Recent Trends in Contemporary Value Added Seafood Products”

Date: 08.08.2025

Beneficiaries: 80 Students

Resource Person: Dr. V. Alamelu, Head & Assistant Professor, Department of Fish Processing Technology, Dr. MGR Fisheries College and Research Institute, Thalainayeru



Outreach Activity – Village Activity: Skill Training on Preparation of Value Added Ready-to-Eat Fishery Products

Date: 28.08.2025 – 04.09.2025

Beneficiaries: 30 Fisher Women of AkkaraiPettai, Keechankuppam and Kallar Villages

Hands-on Training on Fish Processing Machineries and Techniques

Date: 01.09.2025 – 03.09.2025

Beneficiaries: 29 Students

Resource Persons: Dr. N. Manimehalai, Dean, College of Fisheries Engineering, Tamil Nadu Dr. J. Jayalalitha Fisheries University, Nagapattinam

Dr. P. Karthickumar, Assistant Professor, Department of Fish Processing Engineering, College of Fisheries Engineering, Tamil Nadu.

Dr. J. Jayalalitha Fisheries University, Nagapattinam





Science Expo Spark – 2K25

Date: 10.09.2025 & 11.09.2025

Beneficiaries: 600 School Students

Venue: ADMC Campus

Outreach Activity – Village Activity: Preparation of Value Added Fishery Products and Marketing Strategies

Date: 25.09.2025

Beneficiaries: 20 Women of Orathur Village, Nagapattinam



Institute Visit – CECRI

Date: 27.09.2025

Beneficiaries: 20 Students & 2 Faculties

Venue: CSIR – CECRI (Central Institute of Electrochemical Research Institute)

DEPARTMENT OF BIOCHEMISTRY

Academic Activities 2024–2025

Internship Programme on “Skill Training on Medical Lab”

Date: 12.05.2025 to 20.05.2025

Beneficiaries: 08 Students

Resource Person: Dr. J. JayaPrabu, M.D.,
PGDHSC-DIAB
General & Diabetics Consultant (Reg. No: 84502)
Vinayaka Mission Medical College, Karaikal



One Day Hands-on Training “Skill Development Programme on Biochemical Techniques”

Date: 11.08.2025

Beneficiaries: 135 Students

Resource Person: Dr. A. Noojahan
Managing Director & Research Coordinator
Biofocus Scientific Solution Pvt. Ltd., Kumbakonam,
Tamil Nadu

Guest Lecture on “Strategies to Overcome Radiation Resistance in Uterine Cervical Cancer”

Date: 22.08.2025

Beneficiaries: 53 Students

Resource Person: Dr. D. S. Prabakaran, Ph.D.
(Medicine)
Assistant Professor, Department of Biotechnology
SRM Institute of Science and Technology,
Kattankulathur, Chennai – 603 203





**Science Expo “SPARK 2K25”
“Igniting Young Minds, Shaping the Future”**

Date: 10.09.2025 to 11.09.2025

Beneficiaries: 600 Students

Venue: A.D.M. College for Women (Autonomous),
Nagapattinam

**Outreach Programme
“Nutrition Millets Food Preparation & Organic
Kajal Making”**

Date: 26.09.2025

Beneficiaries: 20 Women

Venue: Orathur Ooratchi Manra Aluvalagam,
Orathur, Nagapattinam



**Industrial Visit
“Central Electrochemical Research Institute
(CECRI)”**

Date: 27.09.2025

Beneficiaries: 16 Students & 02 Faculty

Venue: CSIR–CECRI Institute, Karaikudi

DEPARTMENT OF CHEMISTRY

Academic Activities 2024–2025

“Contemporary Aspects of Chemistry: Summer Training Programme – 2025”

Date: 05.06.2025 to 19.06.2025

Beneficiaries: 2 Students

Organized at: IIT Madras and Science City,
Department of Higher Education,
Government of Tamil Nadu, Chennai



Workshop on “Open Source Tools in Chemistry”

Date: 24.07.2025

Beneficiaries: 90 Students

Resource Person: Dr. S. S. Syed Abuthahir
Assistant Professor, Department of Chemistry
Jamal Mohamed College, Trichy

Lecture Series on Agricultural Chemistry

Date: 28.07.2025 to 31.07.2025

Beneficiaries: 34 Students

Resource Person: Dr. B. Rajeswari
Assistant Professor (Sl. Gr.)
Department of Science & Humanities (Chemistry)
University College of Engineering, Tirukkuvalai



Workshop on “A Practical Roadmap for Organic Research with Spectroscopic Applications”

Date: 20.08.2025

Beneficiaries: 105 Students

Resource Person: Dr. P. N. Sathishkumar
Assistant Professor of Chemistry
National Institute of Technology, Karaikal

Workshop on “Methodologies of Water Quality Parameters”

Date: 26.08.2025

Beneficiaries: 119 Students

Resource Person: Dr. R. Abdul Vahith
Assistant Professor of Chemistry
Jamal Mohamed College (Autonomous), Trichy



Workshop on “Chromatography”

Date: 09.09.2025

Beneficiaries: 116 Students

Resource Person: Dr. M. R. Ezhilarasi
Professor
Dr. N.G.P. College of Arts & Science, Coimbatore

Science Expo “Spark 2K25”

Date: 10.09.2025 & 11.09.2025

Beneficiaries: 900 Students



“Nucleic Acid Aptamer for the Diagnosis & Treatment of Cancer”

Date: 23.09.2025

Beneficiaries: 80 Students

Resource Person: Dr. R. Abdullah

Aptamer Scientist

Institute for the Advancement of Chinese Medicine (IACM) Ltd.

Hong Kong Aptamer Group, Hong Kong

Outreach Programme on “Bubbles & Beyond”

Date: 26.09.2025

Beneficiaries: People of Orathur Village

Venue: Orathur Village



Industrial Visit

Date: 27.09.2025

Beneficiaries: 29 Students

Venue: CSIR–CECRI, Karaikkudi

DEPARTMENT OF COMPUTER SCIENCE

Academic Activities 2024–2025

Outreach Programme for +1 & +2 Students

Date: 29.07.2025 to 01.08.2025

Beneficiaries: +1 & +2 Students, N.D.H.S. School
(96 Students)

Resource Persons: Mrs. K. Devi & Mrs. C. Geetha
Assistant Professors of Computer Science
A.D.M. College for Women (Autonomous), Nagapattinam



One Day Workshop “AI Tools Shaping Tomorrow’s Learners”

Date: 01.08.2025

Beneficiaries: III B.Sc. CS, III B.Sc. IT, II BCA
(120 Students)

Resource Person: Dr. K. Nandhini
Assistant Professor, Department of Computer Science
Central University of Tamil Nadu, Thiruvarur

Webinar on “PHP Web Application”

Date: 12.08.2025

Beneficiaries: II B.Sc. CS, II B.Sc. IT, II BCA (88
Students)

Resource Person: Dr. S. Arulpandian
Assistant Professor of Computer Science
Alagappa University, Karaikudi





Hands-on Training “Bioinformatics and NCBI Database Tools”

Date: 13.08.2025

Beneficiaries: III B.Sc. CS, III B.Sc. IT, III BCA (94 Students)

Resource Person: Dr. S. Kumaran
Associate Professor, Department of Biotechnology
Dean (Research i/c), Periyar Maniammai Institute of
Science & Technology, Thanjavur

Seminar

“AI for Everyday Impact: Practical Tools to Enhance Learning and Creativity”

Date: 14.08.2025

Beneficiaries: I B.Sc. CS, I B.Sc. IT, I BCA (130 Students)

Resource Person: Dr. Santhosh Paramasivam
Assistant Professor (PNRR)
Department of Electrical and Electronic Engineering
University of Cagliari, Italy



Webinar on “Cloud Computing”

Date: 13.09.2025

Beneficiaries: III B.Sc. IT, III BCA (58 Students)

Resource Person: Ms. B. Prashanthi, M.Sc.,
M.Phil.
Assistant Professor of Computer Science
St. Peter’s Institute of Higher Education and Re-
search,
Avadi, Chennai

Webinar on “Active Server Page”

Date: 16.09.2025

Beneficiaries: III B.Sc. CS, III BCA, II B.Sc. IT
(107 Students)

Resource Person: Dr. M. Pandiyan, M.C.A.,
M.Phil., Ph.D.

Assistant Professor of Computer Science
SRM Institute of Science and Technology,
Kattankulathur, Chennai



Two Days Hands-on Training “IoT in Industry 4.0”

Date: 29.09.2025 & 30.09.2025

Beneficiaries: III B.Sc. CS, III BCA, III B.Sc. IT

Resource Person: Dr. A. Mohammed Ali
Co-Founder, TwirlTact Technologies Private Limited,
Coimbatore

One Day Hands-on Training “AI in Education and Accessibility”

Date: 29.09.2025

Beneficiaries: I B.Sc. CS, I BCA, I B.Sc. IT

Resource Person: Mr. Arivazhagan Nagarajan
Managing Director, Right Click Academy,
Kumbakonam





One Day Hands-on Training “GEN AI”

Date: 30.09.2025

Beneficiaries: I B.Sc. CS, I BCA, I B.Sc. IT

Resource Person: Dr. B. Gayathri
Associate Professor, Department of Computer Science
Bishop Heber College (Autonomous), Trichy

DEPARTMENT OF MATHEMATICS

Academic Activities 2024–2025

Educational Tour

Date: 21.07.2025

Beneficiaries: 17 Students

Venue: Planetarium, Tiruchirapalli



Guest Lecture Programme “Applications of Fluid Dynamics in Biotechnology”

Date: 06.08.2025

Beneficiaries: 82 Students

Resource Person: Dr. Lalrinpuia Tlau
Assistant Professor, Department of Mathematics
National Institute of Technology Puducherry, Karaikal

Hands-on Training Programme “Numerical Computing with SCILAB”

Date: 08.08.2025

Beneficiaries: 85 Students

Resource Person: Mr. S. Riyasudeen, M.Sc., SET
Assistant Professor of Mathematics
Khadir Mohideen College, Adhirampattinam





**Outreach Activity
“Illam Thedi Kanitham (Mathematics at Doorsteps)”**

Date: 12.08.2025 to 15.08.2025

Beneficiaries: 62 Public Participants

National Seminar on Applied Mathematics in Thermal and Medical Sciences

Date: 02.09.2025

Beneficiaries: 87 Students

Resource Persons:

Dr. S. Pranesh, Professor & Head, Centre for Mathematical Needs, Christ (DTBU), Bengaluru

Dr. G. Mahadevan, Professor & Head, The Gandhigram Rural Institute – DTBU



Science Expo “SPARK 2K25”

Date: 10.09.2025 and 11.09.2025

Beneficiaries: 200 School Students

**Outreach Activity at Orathur Village
“Health and Hygiene for Rural Women”**

Date: 23.09.2025

Beneficiaries: 52 Public Participants (Women)

Resource Person: Mr. V. Kannan
Trainer, Social Audit Society of Tamil Nadu
Block Level Development Officer



**Faculty Development Programme
“Learning Outcome Based Curriculum Frame-
work”**

Date: 12.09.2025

Beneficiaries: 76 Faculty Members

Resource Team: Dr. C. Amirthavalli & Team
IQAC, Madras Christian College

**Webinar Series
“The Power of Structure of Group Theory in
Modern Applications”**

Date: 22.09.2025 to 26.09.2025

Beneficiaries: 82 Students

Resource Person: Dr. Ramesh Kumar
Assistant Professor, VIT Vellore



DEPARTMENT OF PHYSICS

Academic Activities 2024–2025

Training Workshop “Programming in Python”

Date: 16.07.2025 to 21.07.2025

Beneficiaries: 38 Students

Resource Person: Mrs. K. Kavitha, Anna University College of Engineering, Thirukuvalai



One Day Workshop “Project Writing Skills”

Date: 31.07.2025

Beneficiaries: 80 Students

Resource Person: Dr. P. Karthickumar, College of Fisheries Engineering, Nagapattinam

Two Days Skill Training “Drone – The Future Technology”

Date: 09.09.2025 to 10.09.2025

Beneficiaries: 103 Students

Resource Persons: Mr. A. Neyan and Mr. R. Ravishal





**One Day International Seminar
“Mastering the Art of Project Writing”**

Date: 16.09.2025

Beneficiaries: 56 Students

Resource Person: Dr. K. Mohanraj, Central University of Tamil Nadu

**Two Days Skill Training and Hands-on Experience
“Drone – The Future”**

Date: 09.09.2025 to 10.09.2025

Beneficiaries: 103 Students

Resource Persons: Mr. A. Neyan, Director, Eagle Agro Drone Innovation Pvt. Ltd., Nagapattinam
Mr. R. Ragavishal, Director, Glider Aerial Solution Pvt. Ltd., Nagapattinam



**One Day International Seminar
“Mastering the Art of Project Writing – From Idea to Final Report”**

Date: 16.09.2025

Beneficiaries: 56 Students

Resource Person: Dr. K. Mohanraj, Associate Professor, Central University of Tamil Nadu, Thiruvarur

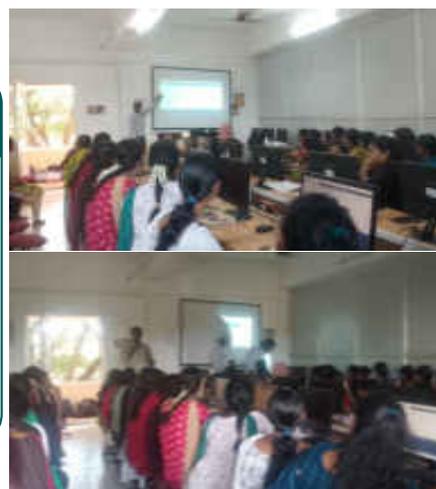
Two Day Interdisciplinary Hands-on Training “Embedded System and IoT”

Date: 24.09.2025 to 25.09.2025

Beneficiaries: 54 Students

Resource Persons: Mr. J. Vijayan, Associate AI and Data Instructor, Manavan Upskills

Mr. S. Dinesh Dhanabalan, Arifa Innovation and Incubation Council, Esanoor, Nagapattinam



Outreach Programme “Electrical Energy Conservation and Safety Measures for Rural Women”

Date: 25.09.2025

Beneficiaries: 35 Women

Venue: Orathur Village

One Day National Webinar “Artificial Intelligence (AI) in Radiotherapy”

Date: 26.09.2025

Beneficiaries: 78 Students

Resource Person: Dr. C. Senthamil Selvan, Assistant Professor, Department of Medical Sciences (AI-IMS), New Delhi



Industrial Visit

Date: 27.09.2025

Beneficiaries: 21 Students

Venue: CSIR–CECRI, Karaikkudi

DEPARTMENT OF ZOOLOGY

Academic Activities 2024–2025

One Day Seminar “A Flash on Entrepreneurship in Aquaculture”

Date: 13.08.2025

Beneficiaries: 65 Students

Resource Person: Dr. A. Radha, Assistant Professor in Zoology, K.N. Government Arts College for Women (Autonomous), Thanjavur



Outreach Programme “Identification of Junior Zoologist”

Date: 20.08.2025 to 22.08.2025

Beneficiaries: 50 Students

Venue: Natarajan Dhamayanthi Higher Secondary School, Nagapattinam

One Day Workshop “Bioprospecting of Marine Organisms: Advantages and Applications”

Date: 28.08.2025

Beneficiaries: 80 Students

Resource Person: Dr. M. Arumugam, Associate Professor, CAS in Marine Biology, Annamalai University





**One Day Workshop
“Alternative to Animal Experiments in Life Science Research”**

Date: 01.09.2025

Beneficiaries: 96 Students

Resource Person: Dr. B. Kadalmani, Professor, Department of Animal Science, Bharathidasan University, Tiruchirappalli

**Outreach Programme
“Safe Animals, Save Society”**

Date: 29.09.2025

Beneficiaries: 75 Participants

Resource Person: Dr. M. Arivazhagan, Subject Specialist, Krishi Vigyan Kendra (ICAR), Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Sikkal

