

HIGHLIGHTS AND ACHIEVEMENTS 2024 - 25

- **Hands On Training/Workshops: 4**

Workshop on SDS-PAGE Technique

Workshop on Molecular Docking and Drug Designing

Identification of Bacteria by 16S rRNA Sequencing

Separation Science (Chromatography & SDS-PAGE)

- **Mini projects and ALP:** 12 Mini projects: Dry Lab projects on Computational Tools
+10 Internships

National Nutrition Month Celebrations - conducted competitions (**National Nutrition Month 2024**) **Intercollegiate Poster Designing Competition** was organized on the topic "Vote for Me - Nutrient of the Year". 120 Participants from almost 10 Colleges participated in this successful event which took place on 20th September 2024

- National Science Day Competition

- Medical Coding Certificate Course - 5 students are Pursuing

- **Session on Internship to Entrepreneurship** Session by Dept. Of Biochemistry, Microbiology & BBA in collaboration with APEX SDG. Resource Person: Mr. P.Sudheer Kumar, Executive Director APEX SDG on 4th September 2024

- **Outreach Activities 3:** Career Guidance to Class 10, Role of Antioxidants & Healthy Eating, Awareness on Water Conservation

Session on Cancer prevention - Role of Antioxidants and Healthy Eating. II year BBC Students, Uzma fatima, Sayeda Fatima, Aayushi conducted awareness session for class 6th & 7th standard students at Govt School, Devaljham on 24th March 2025

Water Conservation Awareness session. Uzma Fatima, Lakshmi Prasanna, Kotha Shreya, Nida Firdous, students of BBC II year to promote environmental awareness, visited two government schools to conduct an awareness program focused on crucial environmental issues such as water conservation, water pollution, rainwater harvesting, stepwells, strategies for water conservation at home, and carbon footprint reduction. at 1) GBHS, Mustaidpura & 2) GPHS, Kulsumpura on 12th December 2024

Career Guidance Session. Lakshmi Prasanna, Kotha Shreya Jayanthika, Chris of BBC II year conducted a session 'Career Options after 10th standard' for classes 9th and 10th standard students at Govt School, Devaljham on 24-03-25

Student centric activities

- 3D Model Making by II BBC. No. of Students: 28
- Calendar making on (i) brain Biomolecules & (ii) Molecules of Life & & Doodle Notes Making Activity on Chemistry of Biomolecules by IBBC. No. of Students: 50
- Poster Making on Water- and Fat-soluble Vitamins, Macro & Microminerals by III BBC. No. of Students: 28.
- Scrapbook Activity on Biochemical Separation Techniques & Nucleic Acids by I BBC. No. of Students: 53.
- Computational Projects - – Case Study on Inborn Errors of Metabolism using Bioinformatics Tools by II BBC. No. of Students: 28.
- Designing Board Games, Movable Demo Model, Clay Model Making Activities by III BBC. No. of Students: 28.

Student's participation outside College

- **Career Opportunities In Health Care Sector**, Organized by KIMS Hospitals & Skill Tyro on 21st September, 2024. No. of participants: 30 (Final year & second year)
- **Career Connect**, Organized by FABA on 28th September, 2024. No. of participants: 10 (Final year)

Faculty participation

AM Sylaja, HOD successfully completed

National Level FDP: 3

National Level Workshop/Training Programs: 3

- 4 Day certification program on Insilico CRISPR CAS 9 TECHNOLOGY - Skill Development Program
- One week FDP ON AI Tools in Teaching
- 10 Day National level Thesis Writing Workshop

- 5 Day Hands on Workshop on Molecular Docking & Analysis
- 5 Day National Level FDP on AI Tools
- 2 Day National Level FDP on Embarking on Digital Frontier Tools for Enhancing MOOCS Experience

Dr. Lavanya Tayi, Assistant Professor successfully completed

National Level FDP: 1

National Level Workshop/Training Programs: 1

- 5 Day National Level FDP on AI Tools
- 2 Day Workshop on Molecular Techniques

Student research projects/Internships

- 15 Days Internships/Hands on Training on **Molecular Biology Techniques like ELISA, Mass Spectrophotometry, HPLC** by Dr. Madhurarekha CH, PhD Biochemistry, at Vijayarekha Life Sciences, Puppalguda, Manikonda, Hyderabad- 89 on 9th to 21st September 2024. Completed by BSc BBC III Year students.
- One month Internships on **AI in Health Care, Medical Coding, Food science and Microbiology, Nano biomedicine** at Learn to Upgrade - Training partner LSSSDC from June - July 2024. Completed by BSc BBC II & III Year Students

Student Achievements

- *Christine Janet of BBC II year & Aishwarya of BBC III yr received appreciation certificates* in National level Scientific Writing Competition on (1) Life Beyond Vision & (2) Recent Advances in Lifesciences, organized by Microbiologist Society, India on the occasion of International Microorganisms Day on 17th September 2024.
- *Ms. Sharanya Of BSc. BBC II Year Won Third Prize in National Level Online Quiz – Bio Quest* organized By School Of Science O. P. Jindal University, Raigarh, Chhattisgarh on 12th February 2025.
- *Ms Aishwarya of BSc. BBC III yr participated in the National Conference titled Convergence of Technology & Biology - Transforming Life Sciences* organized By St. Francis College And Presented Poster On: “Molecular Motors As Nano Robots In Therapeutic Medicine on 14th February 2025.

- *Ms Haritha of B.Sc. BBC III yr* participated in the National Conference titled Convergence of Technology & Biology - Transforming Life Sciences Organized By St. Francis College And Presented Poster On “AI And Machine Learning In Life Science 14th February 2025.

Observation Of Special Days

Green Initiatives

SDG Activities, Biodiversity Conservation were observed for World Environment Day and National Pollution Week.

- **World Environment Day** (June Month 2024). Under APEX SDG – HEIs Article 51 – NEP2020 Implementation of Voluntary Eco Champ Activities for Environmental Community Engagement and SDGs, the Department organized Eco Champ Activities from 12th - 27th June 2024.

1. **DIY Cloth Bag Making Workshop.** Activity was co-ordinated by Ms. A.M. Sylaja from June 5th – 11th, 2024
2. **Steel Water Bottle Initiative.** Co-ordinated by Mrs. A.M. Sylaja, Head, Dept of Biochemistry and Dharini Eco Club Convenor on 12th June 2024
3. **Green living videos.** Co-ordinated by Mrs. A.M. Sylaja, Head, Dept of Biochemistry and Dharini Eco Club Convenor for whole June month starting from 5th June 2024.
4. **Millet Lunch Box Policy.** Co-ordinated by Mrs. Y. V. Phani Kumari, Assistant Professor, Department of Nutrition & Mrs. A.M. Sylaja, Head, Dept of Biochemistry and Dharini Eco Club Convenor, from 12th June 2024 onwards

- **National Pollution Control Week-Celebrations**

1. **Reel-making competition** on the theme "Say No to Single-Use Plastic." 14th December 2024
2. **Slogan writing competition** on the theme "Pollution Hurts, Clean Earth Works".. This inter college competition witnessed enthusiastic participation from 109 students from various colleges The event was conducted on 14th December 2024
3. **Poster designing competition** on the theme "Pollution-Controlling Remedies." The event also highlighted key slogans: "Beat Pollution - Breathe Life," "Waste Not - Want Not - Reduce Pollution Today," and "Sustainable Choice for a Greener Tomorrow."

The competition saw enthusiastic participation from 46 students across various colleges.

Intercollegiate Competitions

- Inter-college Green Olympiad Quiz Competition was conducted online (24th - 27th October 2024), aiming to foster environmental awareness and engage students from various institutions in critical topics related to Sustainable Development Goals (SDGs), climate change, carbon foot print reduction, and bioremediation
- Poster contest ,Memes and Doodle Making,Annofesta Competitions

Student Research Projects (Guided by AM Sylaja , HOD & Dr. Lavanya Tayi)

- 1.Comparative study of probiotics for Bioactive compounds in commercial and traditional samples.
- 2.Study on antimicrobial and antioxidant properties of Bathukamma flowers.
- 3.Testing Bioactive compounds-Phenols, flavonoids, Antioxidant, Vitamin C content in infused water samples.
4. Analysis of sugars and Glycemic index of juices and smoothies.
- 5.Pharmacogenomic project on - Personalized Medicine.

Ann's Research Project - Completed on Comparative study of degrading textile dye effluents using Bacteria and Bioenzymes made from organic waste by AM Sylaja , HOD, Dept. of Biochemistry.

Placements: Medical Coding - 3 Students placed with AGS Labs.

Faculty Achievements

- AM Sylaja, Head Department of Biochemistry, and Dharini Eco club Convenor, of St. Ann's College for Women, Mehdipatnam has been awarded **Certificate of Appreciation as Eco SDG Champ** for exemplary dedication and commitment to advancing Sustainable Development Goals SDGs through active participation and leadership in organizing and conducting SDG related activities in campus on occasion of World Environment Day
- AM Sylaja, Head Department of Biochemistry, and Dharini Eco club Convenor, of St. Ann's College for Women, Mehdipatnam has been awarded **Certificate of Recognition as Faculty Coordinator** for successful completion of District Eco – SDG Championship 2024.