



SUDHEE 2025

National Level Students Technical Fest

NEOZION 2025

‘Innovating Across Fields’

Department of Biotechnology report

[I] INTRODUCTION: A brief overview of the event, its purpose, and objectives

NEOZION 2025, a two-day National Level Technical Symposium conducted by the Department of Biotechnology as part of the college-wide technical fest Sudhee 2025, aimed to celebrate diverse avenues of biotechnological research. Since 2008, this annual fest has provided a platform for participants to learn about the latest advances in Biotechnology and interact with eminent scientists. The event invited brilliant minds with a passion for biotechnology to unleash their inner bio innovator. The Symposium covered events such as Paper Presentation, Poster Presentation, Live Projects, Bio-ideathon, Bio Quiz, Debate, and Non-Technical events. Papers, posters, and live projects were invited on various topics including Plant and Animal Biotechnology, Stem cell technology, Environmental Biotechnology, Nanobiotechnology, Bioinformatics, Biomedical Engineering, Pharmaceutical sciences, Bio-process Technology, Algal biotechnology, and Chemical engineering.

The objectives for conducting NEOZION 2025 are:

- To disseminate knowledge about the latest advancements and trends in the field of Biotechnology and to celebrate the diverse avenues of biotechnological research to inspire participants to contribute to the field.
- To provide a networking opportunity for participants from various educational backgrounds and institutions to interact with eminent scientists and experts in the field, fostering a collaborative environment.
- To encourage participants to unleash their innovative potential by presenting their research ideas and projects. Also to provide a platform to develop their skills in various aspects of biotechnology, such as research, presentation, and critical thinking.
- To promote research culture among students and scholars by inviting papers, posters, and live projects on diverse topics in biotechnology.



Figure 1 NEOZION POSTER

[II] ORGANIZING COMMITTEE: Information about the team that organized the event, including their roles and responsibilities



Figure 2 Organizing committee of NEOZION 2025



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Table 1 Details regarding event wise staff coordinators and student coordinators

Event/Activity Name and responsibilities	Staff Coordinator	Student Coordinators		
		Designation	Name	Contact no.
Paper Presentation (Review submitted abstracts, communicate with selected participants, communicate with judges, etc.)	External Judge, Dr. V. Aruna and Dr. G. Vijaya Laxmi	Head	Pranavi	+91 89789 82099
		Organizer	Bhavana	+91 79959 21663
			Disha	+91 89192 56696
		Volunteer	P. Manaswini	+91 99511 18800
		Volunteer	Akshaj	+91 94411 56480
		Volunteer	Harika	+91 93913 36747
Poster Presentation (Review submitted abstracts, communicate with selected participants, communicate with judges, etc.)	External Judge, Dr. C. Obula Reddy and Dr. Sanjeeb Kumar Mandal	Volunteer	Surya Chary	+91 91214 66927
		Head	Sneha	+91 80199 86723
		Organizer	Ananya	+91 6301 087 587
		Volunteer	Vidhatri	+91 80084 10343
		Volunteer	Vidushi	+91 80748 09291
		Volunteer	Akshaya	+91 93921 47528
Live Projects (Review submitted abstracts, procure materials required by participants, communicate with selected participants, communicate with judges, etc.)	Dr. B. Mishra, Mr. D. Mahboob Basha, Mr. Shaikh Amir, and B. Shekhar	Head	Keerthan	+91 6304 078 508
		Organizer	Bhoomika	+91 80749 20229
			Amogh	+91 8688242016
		Volunteer	Bhounik	+91 97044 00515
		Volunteer	Sudheeksha	+91 88973 95605
		Volunteer	Varshitha	+91 6303 690 521
Bio-Quiz (Publicity of quiz event, formulating questions, conduction of quiz in fair manner)	Dr. S. Sumithra	Head	Sneha	+91 80199 86723
			Rahman	+91 93906 76968
		Organizer	Disha	+91 89192 56696
			Nikiitha	+91 7331122147
		Volunteer	Wahaj	+91 8374854634
		Volunteer	Rishitha	+91 8179598073
Bio-Debate (Publicity of debate, formulating debate topics, coordinating between participants, assist judging panel, etc.)	Dr. Ashoutosh Panday	Volunteer	Bhavana	+91 7995921663
		Head	Muskan	+91 6302 115 176
		Organizer	Nikiitha, Adithya	+91 73311 22147
		Volunteer	Yamini	+91 91007 49842
		Volunteer	Uday	+91 77022 65093
Bio-Ideathon (Review submitted abstracts, communicate with selected participants, communicate with judges, etc.)	Dr. B. Sumithra	Volunteer	Saurabh	+91 93473 44256
		Head	Rahul	+91 6281 671 517
		Organizer	Varshitha	+91 6303 690 521
		Volunteer	Amulya	+91 99492 66199
		Volunteer	Aman	+91 91331 23405



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Event/Activity Name and responsibilities	Staff Coordinator	Student Coordinators		
		Designation	Name	Contact no.
Design Team (Design Main Neo Zion 25 poster, design posts for all individual events conducted, design content for all social media)	All Faculty	Head	Khadija	+91 91778 10365
		Organizer	Areebah	+966 55 434 4780
		Volunteer	Mehvish	+91 90148 03605
		Volunteer	Yashmitha	+91 79953 04998
		Volunteer	Zohaib	+91 99894 22360
Registration (Overview registrations, track payments and participant details, maintain financial records etc.)	Dr. Sanjeeb Kumar Mandal Dr. D. Madhavi Latha and Mrs. S. Kavitha	Head	Ananya Surabhi	+91 99491 92288
		Organizer	Bhoomika	+91 80749 20229
		Organizer	Adithya	+91 80741 72612
		Organizer	Ananya	+91 6301 087 587
Publicity (Publicize Neo Zion 25 and all individual events to all possible eligible participants, college to college publicity, maintain social media, etc.)	All Staff members	Head	Pranavi	+91 89789 82099
		Organizer	Bhavana	+91 79959 21663
		Organizer	Sarayu	+91 93951 47045
		Volunteer	P. Manaswini	+91 99511 18800
		Volunteer	Vidhatri	+91 80084 10343
General Management Team (Overview and coordination of all Neo Zion 25 activities)	Dr. Rajasri Yadavalli, Dr. K. Dharmalingam, Dr. Kiran Y. V.	Chief Coordinators	Kirthikha	+91 77806 02509
			Rahman	+91 93906 76968
			Srikanth	+91 939280 4602
Editorial (Draft invitation letters, email correspondences to chief guest,	Dr. Rajasri Yadavalli Dr. K. Dharmalingam Dr. Kiran Y. V.	Head	Kirthikha	+91 77806 02509
		Organizer	Bhoomika	+91 80749 20229
		Volunteer	Sidra	+91 86398 64219

[III] KEYNOTE SESSION: Brief description on the keynote address including the details of speaker, topic and speaker profile.

The inaugural ceremony of Neozion 2025 commenced with a warm welcome from student anchors Ms. Disha and Ms. Bhoomika, both 3rd-year Biotechnology students. They greeted the attendees and introduced Dr. Y. Rajasri, Head of the Biotechnology Department, along with the esteemed chief guest, Dr. Atun Roy Choudhury, an environmental engineer and expert in sustainable waste management.

Dr. Y. Rajasri officially inaugurated the Biotechnology Technical Fest, welcoming faculty and students from various institutions. She outlined the scheduled events and underscored biotechnology's role in research, innovation, and sustainability.



Figure 3. Dr. Y. Rajasri, HoD Biotechnology, addressing the gathering at Inauguration ceremony of NEOZION 2025

The keynote address was delivered by Dr. Atun Roy Choudhury, Assistant General Manager at Cube Bio Energy Pvt. Ltd. He shared insights on municipal waste management, water conservation, and resource efficiency. Highlighting advancements in biomining and solid waste management, he stressed the significance of sustainable water policies in urban development. His session concluded with an engaging Q&A, where students and faculty discussed environmental policies and career opportunities in biotechnology.



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Figure 4. Dr. Atun Roy Choudhary addressing the participants during his key note session

As a token of appreciation, Dr. Y. Rajasri felicitated Dr. Choudhury, followed by Dr. V. Aruna honouring Dr. Rajasri for her leadership. Faculty and student coordinators were also recognized for their contributions. The ceremony concluded on a high note, setting the stage for an enriching fest ahead.



Figure 5 Unravelling of the current issue of the Biotechnology Department Newsletter "Biopulse" by Dr. Atun Roy Choudhary and other dignitaries during NEOZION-2025



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Figure 6 Group photo of the dignitaries, faculty coordinators, student coordinators, participants at the Inauguration function of NEOZION 2025

[IV] EVENT DETAILS: A detailed description of the events, competitions, and activities that took place during the tech-fest, including the details of the winners

1. Paper presentation:

The Paper Presentation segment of NEOZION welcomed research and review papers focusing on bioengineering, biotechnology and related fields. Participants had the opportunity to orally present their academic ideas and research, fostering knowledge exchange and networking opportunities. Both group and solo presentations were accepted, with topics chosen at the discretion of the participant. Paper presentation provided a platform for students to showcase their research and communication skills in the field of biotechnology. An experienced and illustrious judging panel with expertise in diverse fields included:

External judge – Dr. Atun Roy Choudhary, Assistant General Manager at Cube Bio Energy Pvt. Ltd.

Internal Judges – Dr. Varimadugu Aruna, Associate Professor, Department of Biotechnology, and Dr.G Vijaya Laxmi, Associate Professor, Department of Biotechnology

The event witnessed internal and external participation from colleges including Nizam's College, Little Flower College, BVRIT-N and more. From the abstracts submitted, a total of 30 papers were selected to present their papers, covering diverse topics. The papers were evaluated based on originality, technical merit, clarity, and presentation style. Winners of the paper presentation are as follows

Winners – Vadlamudi Nikhil, Nizam College on “Encapsulated E. coli Bacteriophages in Poultry”



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Figure 7 Participants presenting their work during paper presentation competition

2. Poster presentation:

As part of NeoZion—the technical event of the Bioengineering and Biotechnology Club of CBIT (BBCC)—a Poster Presentation was organized at the Department of Biotechnology, CBIT, on the 5th of March, 2025. The event commenced at 10:00 AM with an introduction to the presentation and a warm welcome to the judges. The esteemed judges for the event were Dr. Obula Reddy, Assistant Professor at Department of Biotechnology, CBIT, and Dr. Musini Narasimhulu, Assistant Professor at the Centre for Biotechnology, Jawaharlal Nehru Technological University Hyderabad (JNTUH), both highly regarded academicians in the field of biotechnology.

A total of 50 teams participated in the Poster Presentation. Each team chose a specific topic within the domain of bioengineering and biotechnology, allowing them to showcase their research, understanding, and creativity. Each poster showed the research methods, results, and potential impact using easy-to-understand visuals like graphs and charts. Participants explained their work to judges and attendees, answering questions and receiving feedback. The posters were judged on the quality of the research, creativity, design, and how well the participants communicated their ideas.



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Figure 8 Participants interacting with the evaluators during the poster presentation session

Each team was given five minutes to present their poster, explaining the key aspects of their work. The judges and audience engaged in an interactive discussion, raising questions to assess the depth of understanding and originality of ideas. The event encouraged knowledge exchange and scientific discussions, providing participants with a platform to express their ideas and receive constructive feedback.

The event concluded with a vote of thanks and appreciation of judges for their valuable time and insightful feedback to the participants. The Poster Presentation was a grand success, fostering an environment of learning and scientific curiosity among students, while promoting the significance of research and innovation in the field of biotechnology. Winners of the poster presentation are as follows

Winners- Amogh, Srikanth and Kunal from CBIT on the topic ‘Evaluation of Growth Promotion and Microbial Limit Testing of Pharmaceutical Tablets Using Selective Media’

3. Live projects:

The Bioengineering and Biotechnology Club of CBIT (BBCC) successfully conducted the Live Projects Event on March 4, 2025, as part of Neozion, the club’s flagship technical event. Held at the GE and FT Lab in the Department of Biotechnology, CBIT, the event commenced at 11 AM with a warm welcome to the evaluators and participants.

The competition saw the participation of eight teams, with four from CBIT and four from Nizam College. The projects were assessed based on their novelty, presentation, and viva performance. The evaluation panel comprised Dr. Atun Roy Choudhury, Assistant General Manager at Cube Bio Energy Pvt. Ltd., as the external evaluator, and Dr. Bishwambhar Mishra, Assistant Professor at CBIT, as the internal evaluator.



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Figure 9 Participants presenting their work to external judge during the live project competition



Figure 10 Participants presenting their work to external judge during the live project competition

Each team presented their innovative research and practical applications in the field of biotechnology, showcasing their skills and problem-solving capabilities. The event fostered inter-institutional collaboration and encouraged students to explore real-world biotechnological challenges.

The Live Projects Event at Neozion 2025 was a resounding success, inspiring students to push the boundaries of biotechnological advancements and strengthening CBIT’s commitment to fostering research-driven learning. The winners for the live project are as follows

Winners- P. Kasyap from CBIT on the topic ‘Seaweed Based Bioplastics’

4. Bio-Quiz:

The Bioengineering and Biotechnology Club of CBIT (BBCC) organised a Bioquiz at the Department of Biotechnology, CBIT on the 5th of March, 2025 in lieu of Neozion - the technical event of BBCC.

The bioquiz started at around 2:00 pm by introducing the event and welcoming the judge. The judge for the quiz was Dr. S Sumithra, assistant professor at the Department of Biotechnology, CBIT. She delivered words of encouragement which left the participants motivated. A total of 20 participants registered for the Bioquiz, and were organised into various groups. The participants were then briefed about the quiz and each team was given a name. The quiz comprised a total of four rounds. Equal opportunity was strongly encouraged within the participants. Each correct response granted the participants ten points and every wrong response resulted in a deduction of five points. Participants were allowed to pass the question in which case, the answering team received half the points.

In the first round, participants were asked twenty multiple-choice questions. Five teams advanced to the second round in which participants played a game of Pictionary. Participants were asked to answer questions based on images shown to them. Four teams qualified for the third round. The third round was of crosswords. Participants were asked to solve the crossword provided. The first two teams to finish advanced to the final round. The final round consisted of 15 rapid fire questions. The team that answered the most questions in the shortest amount of time won the Bioquiz, 2025.

The duo, Hasanthi and Khadhija, were pronounced winners and felicitated by the judge.

The event was concluded by the felicitation of Dr. S Sumithra. The felicitation was done by Dr. Kiran Y, assistant professor at the Department of Biotechnology, CBIT.



Figure 11 Group photo of internal judge, student coordinators and winners of the bio quiz event during NEOZION-2025

5. Bio-Debate:

The Bioengineering and Biotechnology Club of CBIT (BBCC) organized a Bio-Debate at the Department of Biotechnology, CBIT, on the 5th of March, 2025, as part of Neozion—the technical event of BBCC.

Biodebate refers to discussions on biological and biotechnological issues, often addressing ethical, environmental, medical, and legal concerns. With advancements in genetics, biotechnology, and medicine, debates arise on topics such as genetic modification, cloning, bioethics, and sustainability. These debates help shape policies and scientific advancements while ensuring the responsible and ethical use of biotechnology in society.



Figure 12 Participants at the Bio-debate event of NEOZION 2025

The Bio-Debate commenced at 1:00 PM, with an introduction to the event and a warm welcome to the judge, Dr. Ashoutosh Panday, a professor in the Department of Biotechnology, CBIT. He delivered words of encouragement that left the participants motivated.

A total of 24 participants registered for the event. They were divided into four groups: A, B, C, and D. The competition followed a knock-out format with three rounds, ensuring equal opportunity for all participants.

- Round 1: Teams A vs. B debated on the topic “Antibiotic Resistance”, with Team B emerging victorious.



- Round 2: Teams C vs. D debated on the topic “Genetically modified Mosquitoes”, with Team D winning.
- Final Round: The winners, **Team B vs. Team D**, debated on “Synthetic Biology: should humans be allowed to create new life forms?”.

The winners of the bio-debate were decided to be:

Winners – Team D: Shruti Das Mohapatra (3rd year), Mahima (4th year), Samhitha (3rd year), Uday (2nd year), Rishika Malyala (2nd year), Hajra Saba (2nd year).

6. Bio-Ideathon:

The Bioengineering and Biotechnology Club of CBIT (BBCC) successfully organized Bio-Ideathon on the 5th of March, 2025, as part of Neo Zion, the technical event of BBCC. The event took place in Room M203 from 1:30 PM to 2:30 PM and was judged by Dr. B Sumitra, an esteemed faculty member from the Department of Biotechnology, CBIT.

The Bio-Ideathon aimed to foster creativity and innovation among participants, encouraging them to present unique and feasible biotechnological ideas. A total of seven participants registered, forming three teams:

1. Disha.P and Srihita
2. Kashyap. P and Keerthan
3. Srikanth, Amogh, and Kunal

The event commenced with a brief introduction, followed by an inspiring speech from Dr. B Sumitra, who emphasized the importance of innovation in biotechnology. The atmosphere was charged with enthusiasm as participants eagerly took the stage to showcase their groundbreaking ideas. The level of creativity displayed by each team was remarkable, with presentations that were not only well-researched but also highly engaging and thought-provoking.

Each team was given a fixed time slot to explain their concept, its scientific basis, and its potential impact. The participants’ passion for biotechnology was evident, as they confidently defended their ideas and answered questions with clarity and insight. The event turned out to be exceptionally insightful, sparking discussions on the future of biotechnology and the real-world applicability of the ideas presented.

After all teams presented their ideas, Dr. B Sumitra evaluated them based on originality, feasibility, impact, and clarity of presentation. Following the rigorous evaluation, Disha.P and Srihita for their exhilarating idea “Glow gene: Bioluminescent bacteria as Environmental Biosensors” emerged as the winners of Bio-Ideathon 2025, receiving well-deserved recognition for their outstanding and innovative idea. Bio-Ideathon 2025 successfully sparked enthusiasm and creative thinking, reinforcing the spirit of biotechnology innovation at CBIT. The winners of Bio-Ideathon are as follows

Winners- Disha.P and Srihita from CBIT on the topic ‘GlowGene: Bioluminescent Bacteria as Environmental Biosensors’



Figure 13 Participants explaining their ideas during Bio-Ideathon event of NEOZION 2025

[V] PARTICIPANTS DETAILS: A brief description of the number of participants, their backgrounds (within state/Out of state participation)

Neozion 2025 garnered significant interest and participation from a diverse array of colleges. The event attracted a total of 197 registrations, including both internal participants from the organizing college and external participants from various institutions. Colleges such as Nizam College, Little Flowers, BVRIT, and CSIR Neeri, among others, were represented at the symposium. The paper presentation segment of the symposium featured 30 abstracts, demonstrating a high level of engagement and insightful research contributions from participants. The poster presentation, comprising 45 abstracts, showcased innovative visual representations of complex scientific concepts, highlighting the participants' creativity and understanding of the subject matter. The Live Projects segment, with 15 participants, provided a platform for showcasing the practical applications of theoretical knowledge, further enriching the symposium's content. The Bio-ideathon, a competition challenging 3 talented groups to solve real-world problems using biotechnological solutions, added a competitive edge to the event and showcased the participants' innovative problem-solving abilities.

Furthermore, the debate competition, with 24 participants, facilitated thought-provoking discussions on relevant topics, enriching the intellectual discourse at the symposium. The Bio-quiz, engaging 20 participants, tested their knowledge on various biological concepts, promoting a competitive yet educational environment. Also, the non-technical events witnessed enthusiastic participants from other branches of college as well.



[VI] FEEDBACK: Feedback from the participants and organizers, including any suggestions for future improvements

The feedback from participants and organizers of Neozion 2025 reflects a highly positive response to the event. Participants appreciated the variety of technical sessions offered, with the keynote session receiving high ratings for its informative content and engaging delivery. The paper presentation and Bio-Ideathon were also well-received, with participants praising the quality of presentations and the opportunity to showcase their research. In terms of non-technical sessions, participants rated them highly for their engaging content and the chance to learn in unconventional ways. The networking opportunities provided at the event were also praised, with many participants highlighting the value of connecting with other participants and faculty members. The organization of the event, including logistics, registration process, and venue facilities, received positive feedback overall. Participants noted the smooth execution of the event and the efficient handling of various aspects such as registration and scheduling. One of the participants, V. Nikhil, shared very positive feedback, expressing gratitude to CBIT for providing this amazing opportunity. His enthusiasm reflects the overall impact of the event, where participants engaged in thought-provoking discussions, showcased their skills, and networked with like-minded individuals.

Suggestions for improvement included promoting the Bioengineering & Biotechnology Club of CBIT more effectively and ensuring timely issuance of e-certificates for participants. Overall, the feedback indicates that Neozion 2025 was a successful event that provided valuable learning and networking opportunities for all participants.

[VII] VALEDICTORY SESSION: A summary of the event, its highlights, and the outcomes achieved

Neozion 2025, the flagship technical symposium of the Department of Biotechnology at CBIT, successfully concluded with an overwhelming response from students, researchers, and academicians. The event provided an invaluable platform for participants to engage in cutting-edge discussions, showcase innovative research, and foster meaningful collaborations.

One of the major highlights of Neozion 2025 was the keynote address by Dr. Atun Roy Choudhury, which shed light on sustainable waste management and water conservation. The diverse range of events, including Paper Presentations, Poster Presentations, Live Projects, Bio-Ideathon, Bio-Quiz, and Bio-Debate, facilitated an enriching learning experience for all attendees. With participation from esteemed institutions across the country, the symposium successfully promoted interdisciplinary knowledge-sharing and encouraged students to explore the vast potential of biotechnology.

The event concluded with a felicitation ceremony, where Dr. Y. Rajasri, HOD at the Department of Biotechnology, honoured Dr. Musini Anjaneyelu, Assistant Professor at the Centre for Biotechnology, Jawaharlal Nehru Technological University Hyderabad (JNTUH), for his valuable time and insightful feedback.

The event not only fostered academic excellence but also strengthened CBIT’s reputation as a hub for biotechnological innovation. The feedback from participants was overwhelmingly positive, with many appreciating the well-structured organization, insightful sessions, and the opportunity to network with experts in the field.



Figure 13 Guest of Honour Dr. Musini Anjaneyulu being felicitated by Dr. Y. Rajasri, HoD Biotechnology Department on the occasion of Valedictory ceremony of NEOZION 2025



Figure 14 Valedictory function of NEOZION 2025



In conclusion, Neozion 2025 was a resounding success, inspiring students to push the boundaries of biotechnology and reinforcing CBIT's commitment to research-driven learning. The symposium set a high standard for future editions, ensuring that the spirit of innovation continues to thrive in the years to come.