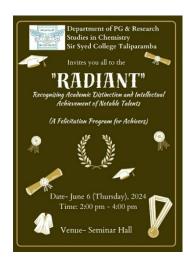
DEPARTMENT OF CHEMISTRY SIR SYED COLLEGE TALIPARMBA

Annual Report 2024-2025 Academic Year

1. RADIANT - Felicitation Programme

(Recognising Academic Distinction and Intellectual Achievement of Notable Talents)

The Department of Post Graduate Studies and Research in Chemistry at Sir Syed College conducted a felicitation program on June 6, 2024, to honor state and national achievers. The function was inaugurated by Dr. Ismail Olayikkara, Principal of Sir Syed College. The General Secretary of CDMEA, Muhammed Allamkulam, graced the event with his presence. Dr. Tajo Abraha, the IQAC Coordinator, and Dr. Shanavas S M, the NAAC Coordinator, were also present to felicitate the achievers. Faculty members from the Chemistry department participated enthusiastically in the program. The event celebrated the hard work and accomplishments of the students, acknowledging their significant contributions to the field. Each achiever was honored with a memento and a certificate of appreciation. The program also included motivational speeches encouraging students to strive for excellence. The attendees expressed their pride in the students' achievements and emphasized the importance of such recognitions. The event concluded with a vote of thanks, leaving a sense of inspiration and pride among the participants.









2. CHEMIA - MSc Internship Conference

The Department of Chemistry at Sir Syed College organized a conference titled "CHEMIA" on highlighting the excellence in MSc internship achievements by fourth semester students. The event was inaugurated by Dr. Binumole P. Kuriakose, Principal in-Charge of Sir Syed College. Ms. Muhammed Sayeed T, Head of the Chemistry Department, presided over the function. Dr. Ashwani Kumar N coordinated the event, ensuring its smooth execution. Faculty members and students from the department actively participated in the program. The conference provided a platform for students to present their internship experiences and achievements. Interactive sessions facilitated discussions between students and faculty, fostering a collaborative learning environment. The event celebrated the hard work and dedication of the students during their internships. Attendees were inspired by the innovative projects and research work showcased. The conference concluded with a sense of pride and motivation, encouraging students to continue striving for excellence in their academic and professional pursuits.



3. Alumni Interaction Program

On June 27, 2024, the Department of Chemistry at Sir Syed College organized an insightful interaction session for our final year BSc Chemistry students. Our esteemed alumni, Muhammad Rishad, who completed his BSc Chemistry degree from 2019 to 2022, shared his professional journey and current role as an Assistant Chemist at Qualitas Material Testing Laboratories in Abu Dhabi, UAE. He provided valuable insights into the various job opportunities available in laboratories and the essential skills required for these roles. The students were highly engaged and benefited from his practical advice and experiences in the field. This session not only broadened their understanding of potential career paths but also inspired them to pursue their aspirations with greater clarity and confidence. Overall, the program was a great success and received positive feedback from all participants.





4. Lab Demonstration to high school students.

The Department of Chemistry, Sir Syed College, organized a lab demonstration session on 04-12-2024 for high school students from Seethi Sahib Memorial Higher Secondary School. The event took place in the chemistry laboratory, where students observed and learned about various chemical experiments and techniques. Mr. Muhammed Sayeed T. led the session, providing insightful explanations and hands-on demonstrations to enhance the students' understanding of chemistry. This initiative aimed to inspire young minds and cultivate their interest in scientific exploration and research.



5. Felicitation to Vth Sem BSc Chemistry students

A felicitation program for the 4th semester A+/A grade holders of the 2022-25 BSc Chemistry batch was conducted. The event was coordinated by Shahabanu P(Tutor). The Head of the Department, Muhammed Sayeed T, along with Dr. Ashwani Kumar N, Dr. Rajeena Pathoor, and Dr. Fasila P M, participated in the event. Prizes were distributed to the achievers, recognizing their hard work and dedication. The program celebrated the academic excellence of the students, motivating them to continue their pursuit of knowledge and success.





6. Felicitation Ceremony for A+ and A Grade Holders

On 21st February 2025 the Department of organized a felicitation ceremony to honor the academic achievements of second-year and third-year students who secured A+ and A grades. The ceremony was graced by the presence of faculties including HoD Ms. Shahabanu P, Dr. Ashwani Kumar, Dr. Rajeena Pathoor, Dr. Neethu Raveendran and Dr. Fasila P M

Each of the faculties delivered inspiring speeches, congratulating the students on their outstanding performance and encouraging them to continue striving for excellence. Dr. Ashwani Kumar emphasized the importance of hard work and dedication in achieving success.Dr. Rajeena Pathoor highlighted the significance of perseverance and resilience in overcoming challenges. Dr. Neethu Raveendran stressed the need for students to stay curious and keep learning.HoD Ms. Shahabanu P encouraged the students to aim high and never settle for mediocrity. Dr. Fasila P M inspired the students to be passionate about their studies and to make a positive impact in their communities.

The ceremony concluded with the distribution of gifts to the meritorious students.





7. PTA meetings

> PTA meeting for Fifth Semester B.Sc. students

A Class PTA meeting for the final year BSc Chemistry 2022-25 batch was conducted. The meeting was organized and led by the class tutor, Shahabanu P. The Head of the Chemistry Department, Muhammad Sayeed T, along with faculties Dr. Ashwani Kumar and Ms. Sarayu Jayadevan, actively interacted with the parents. Discussions focused on the academic progress, future prospects, and any concerns raised by the parents. The meeting fostered a collaborative environment, ensuring that students receive the support needed for their final year.



> PTA meeting for 4th semester B.Sc. students

A Class PTA meeting for the second year BSc Chemistry 2023-26 batch was conducted on 13/01/25 at 2 pm. The class tutor, Dr. Rajeena Pathoor, organized and led the meeting. The Head of the Chemistry Department (incharge) Dr. Fazal E, along with faculties Ms. Sarayu Jayadevan, Dr. Fasila P M, Dr. Ashwani Kumar N and Dr. Neethu Raveendran, actively interacted with the parents. Discussions focused on the academic progress, second semester result analysis, NAAC Visit, and any concerns raised by the parents. Overall, the meeting provided a valuable platform for parents to engage with faculty and administration, fostering a collaborative environment for student success.

▶ PTA meeting for 1st Semester B.Sc. students

The first Parents-Teachers Association (PTA) meeting for first-year FYUGP students was held on July 22, 2024, with 28 parents in attendance. The session began with a welcome by the batch tutor, Dr. Fazal E., followed by Mrs. Sarayu Jayadevan, who introduced the college and department routines while also addressing concerns like ragging. Dr. Ashwani Kumar provided insights into the FYUGP program, and Dr. Fazal elaborated on the syllabus, subjects, exams, and academic activities. The meeting, which included an interactive session for parents and students to clarify doubts, commenced at 10:45 AM and concluded at 12:35 PM.





8. MA'ASALAMA -M.Sc. Farewell program

The farewell party, *MA'ASALAMA*, for MSc students was held on July 11, 2024, at 2 PM in the seminar hall. The event featured heartfelt speeches, reminiscing moments, and best wishes for

the outgoing students. Faculty members and juniors expressed their gratitude and appreciation for the seniors' contributions. The program concluded with a warm send-off, marking the end of a memorable academic journey.





9. Campus Recruitment Drive'24

The Department of Chemistry at Sir Syed College, Taliparamba, in association with Molecular Connections Bangalore, conducted a "Campus Recruitment Drive - 24" for postgraduates in Chemistry and Organic Chemistry on July 16, 2024. The program was aimed at recruiting fresh MSc graduates as Scientific Analysts. The event was inaugurated by Dr. Ismail Olayikkara, Principal of Sir Syed College, with a warm welcome from Dr. Rajeena Pathoor, the program coordinator. Mr. Muhammad Sayeed T, the Head of the Chemistry Department, presided over the function, which saw active participation from faculty members including Dr. Fasal E, Ms. Sarayu Jayadevan, and Ms. Shahabanu P.

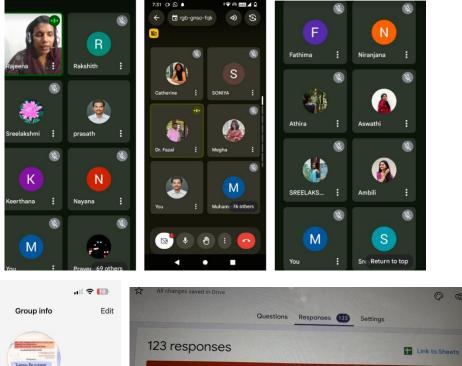
Dr. Tajo Abraham, IQAC Coordinator, and Dr. Mumthaz TMV, Placement Cell Convener, felicitated the event. Prasath N from the HR department of Molecular Connections explained the job description and placement process, highlighting the roles and responsibilities of the candidates. The program saw enthusiastic participation from the students, who were eager to understand the opportunities awaiting them in the scientific research field. Nearly 123 candidates were registered via google form and approximately 90 candidates attended the online section.

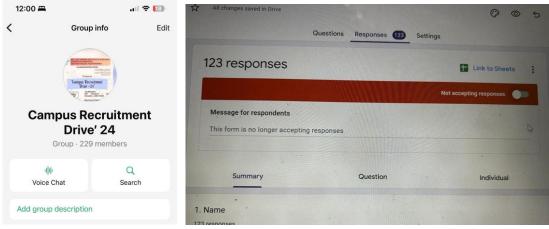
The attendees included both faculty and students, who interacted with the company representatives to gain insights into the selection process. Following the introductory sessions, the information gathered from the applicants via a Google form was handed over to the company. Molecular Connections will now conduct interviews to select the most appropriate candidates.

The event concluded with a vote of thanks by Ms. Sarayu Jayadevan, Assistant Professor in the Chemistry Department. The recruitment drive was successful in bridging the gap between academia and industry, providing students with valuable opportunities to advance their careers. The collaborative effort by the department and the company ensured a well-organized and informative event. The positive feedback from both students and faculty highlighted the success of the program, which set a benchmark for future recruitment drives.









10.Little Masters (Teacher's Day Celebration)

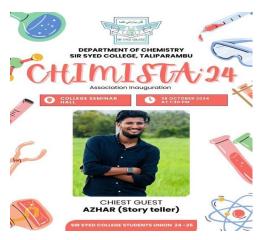
The Department of Chemistry at Sir Syed College, Taliparamba, celebrated Teachers' Day on 5th September 2024 with the unique "Little Masters" program. In this initiative, senior students took on the role of teachers and conducted classes for their juniors as part of the celebration. This peer-teaching experience aimed to honor educators while fostering leadership and teaching skills among students. The event was coordinated by Sarayu Jayadevan and successfully highlighted the significance of mentorship in academic growth.





11. Chemistry Association Inauguration

Sir Syed College Students Union 2024-2025 Chemistry Association has been inaugurated on october 28 Monday at 1:30 pm at Collage seminar hall.session began with a welcome speech by Head Of Chemistry Department Muhammed sayeed T and presidential address by Dr. Ismail Olayikara, Principal, Sir Syed College.Inaugurated by Azhar (Story teller).Sir Syed college students union 2024-2025 chairman Fidha majeed ,Chemistry Department Faculties, Dr.Fazal E,General Secretary ijaz, UUC Nida fathima parambath conveyed their regards. A cultural programme by students of Chemistry department was conducted. The programme was concluded with a vote of thanks by Chemistry Association Secretary, Fathimathul Sadha k







12.National Science Day 2025 – Department of Chemistry Hosts Expert Talks & Technical Sessions

On 27/02/2025 the Department of Chemistry, in association with the Kerala Academy of Sciences, Thiruvananthapuram, successfully organized a statewide program to celebrate National Science Day 2025. The theme of the event was "Empowering Indian Youth for Global Leadership in Science & Innovation for Viksit Bharat."

The event began with a welcome address by Ms. Shahabanu P., HoD, Department of Chemistry, followed by the presidential address by Dr. Ismail Olayikkara, Principal of Sir Syed College. The keynote address was delivered by Dr. Soorej M. Basheer, Associate Professor & HoD, Department of Molecular Biology, Kannur University. As part of the program, Mr. Muhammed Sayeed T., Ms. Fairoosa K. K., and Dr. Sreeja P. were felicitated. The event concluded with a vote of thanks by Ms. Sarayu Jayadevan.

Three technical sessions were conducted, featuring insightful discussions on recent advancements in science. Dr. Soorej M. Basheer led a session on Harnessing Marine Biotechnology for a Sustainable Future, chaired by Mr. Muhammed Sayeed

T. Dr. Shima P. D. presented on Advanced Two-Dimensional Nanomaterials for Environmental Remediation and Sensing Applications, with Dr. Rajeena Pathoor as the session chair. The final session, chaired by Dr. Neethu Raveendran, was led by Dr. Vijith K., who discussed Light-Matter Interaction and Polariton Excitation in Nanoscale Systems.

The program served as a platform for students and researchers to engage with experts, fostering scientific curiosity and innovation. The celebration of National Science Day at Sir Syed College reaffirmed its commitment to scientific education and research

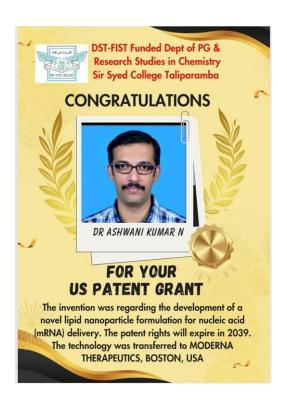


13. Research and Patent Achievements

> US Patent Grant

Dr. Ashwani Kumar N, Assistant Professor of Chemistry, Sir Syed College, Taliparamba, obtained a patent for research conducted during his post-doctoral work under Prof. Gaurav Sahay at Oregon State University (2016-18). The patent, applied for in 2018 and granted in 2024, focuses on replacing cholesterol in lipid nanoparticles with plant-derived sterol compounds like beta-sitosterol and stigmasterol. These

compounds, found in almonds, avocados, and fruits, enhanced gene delivery efficiency. The study also elucidated their structure-activity relationships. Published in *Nature Communications* (2020), this innovation has been licensed to Moderna Therapeutics (Boston, USA) for mRNA vaccine development and received royalty for this



14. ACADAMIC ACHIEVEMENTS

> Selection to winter School

Aiswarya T.P., a third-semester M.Sc. Chemistry student (2023-25) from Sir Syed College, Taliparamba, has been selected for the prestigious Winter School at IISER Thiruvananthapuram. This immersive 18-day program, scheduled from December 4-21, 2024, provides advanced training in Biology, Chemistry, and Physics for second-year M.Sc. students.



> Aspire Fellowship 2024-25

Fifteen IV Semester M.Sc. Chemistry students from Sir Syed College, Taliparamba, have been selected for the prestigious ASPIRE Fellowship 2024-25, offered by the Department of Collegiate Education. This fellowship supports students in carrying out their M.Sc. research projects at premier institutions such as IISc Bangalore, IIT Hyderabad, CSIR-IICT Hyderabad, CSIR-CLRI Chennai, and NIT Calicut. Their selection reflects the department's commitment to academic excellence and research-oriented learning. The fellowship provides them with valuable exposure to advanced research environments, enhancing their scientific skills and career prospects.



> Fellowship-2025

The Department of Postgraduate Studies and Research in Chemistry at Sir Syed College, Taliparamba, has once again achieved remarkable success by securing the highest number of INSA Summer Research Fellowships (SRFP) for Chemistry in Kerala among affiliated colleges. Three students—Gopika Pramod (II Sem M.Sc, IIT Palakkad), Amana Abdulla (IV Sem B.Sc, IIT Ropar, Punjab), and Fathima Nehla P (IV Sem B.Sc, VIT-AP, Amaravathi)—have been selected for this prestigious fellowship. Their selection continues the department's legacy of excellence in research and academic achievements. The consistent success in securing INSA fellowships reflects the institution's dedication to scientific advancement and academic excellence.



15. Arts & Cultural Achievements

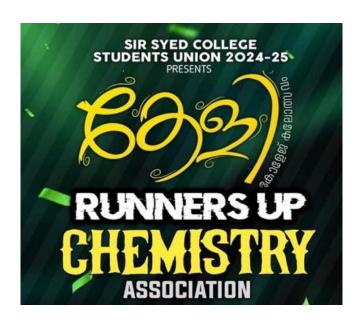
Champions of Fine Arts Day Celebration

The Chemistry Association of Sir Syed College emerged as the champions of "Florenza," the Union & Fine Arts Day celebration held on December 12-13, 2024. The event, organized by the Students' Union 2024-25, featured various artistic and cultural competitions, culminating in a grand celebration. The Chemistry Association's outstanding performance and enthusiastic participation secured their victory, marking a memorable achievement for the team.



> RUNNERS UP: Keli College Kalolsavam-2025

The Chemistry Association of Sir Syed College achieved the runners-up position in the interdepartmental competition "Keli," organized by the Students Union 2024-25. The event took place from January 20 to 24, 2025, celebrating academic and extracurricular excellence. The announcement poster highlights the achievement with a congratulatory message. This recognition reflects the hard work and dedication of the Chemistry Association in the competition.



> "CHEMG&20 2025"

The Chemistry Association of Sir Syed College secured the overall runners-up position in "CHEM&DO 2025," an intercollegiate chemistry fest hosted by Payyanur College. The event brought together students from various institutions to showcase their knowledge and skills in chemistry. This achievement highlights the dedication and excellence of the team in competitive academic events.



➤ Kalolsavam 2025

Hisana V. K., a first-year M.Sc. Chemistry student at Sir Syed College, secured the third prize in the Kurungadha Hindi competition at the Kannur University Kalotsavam 2025. The event took place from February 24 to 28, showcasing students' talents across various cultural and literary competitions. Her achievement reflects her dedication and excellence in language and literature.

Fathimath Hiba, a third-year B.Sc. Chemistry student at Sir Syed College, won the third prize with an A grade in the Kurungadha Urdu competition at the Kannur University Kalotsavam 2025. Her achievement highlights her linguistic talent and dedication to cultural excellence.

Hisana V. K., a first-year M.Sc. Chemistry student at Sir Syed College, won the second prize with an A grade in the Short Story Hindi competition at the Kannur University Kalotsavam 2025. Her achievement showcases her literary talent and creative writing skills.



> Achievements in sports

Pranav P, an M.Sc. Chemistry student at Sir Syed College, Taliparamba, showcased outstanding sports achievements during the 2024-25 academic year, securing the first prize in the 4x100m medley relay, second prize in the 4x100m freestyle relay and 400m individual medley, and third prize in the 200m individual medley. His exceptional performance reflects his dedication to both academics and athletics, bringing pride to the institution.

16. Institutional Visit for PG Students

On 27th September 2024, the third-semester MSc Chemistry students (20 students) along with their tutor, Ms. Sarayu Jayadevan, and the Head of the Department, Mr. Muhammed Sayeed T, visited NIIST and RGCB in Trivandrum as part of their curriculum. The visit provided valuable exposure to advanced research facilities and scientific practices in the fields of material science, biotechnology, and chemical studies. Students had the opportunity to interact with experts, enhancing their understanding of research methodologies and applications. This academic tour greatly enriched their practical knowledge and inspired them to pursue innovative research endeavors.



17.Institutional Visit for UG Students

An Institutional visit to Skill and Entrepreneurship University(DSEU) and Centre for Interdisciplinary Research and Innovation, Kashmir University was organized from 13-01-2025 to 22-01-2025 including 38 students accompanied by 2 staff(Shahabanu.P,Head & Assistant Professor of Chemistry, Muhammed Sayeed T,Assistant professor of Chemistry).









18. Department Profile release.

On 13th February 2025, the Department of Chemistry officially released its department profile, documenting key details from 2017 onwards. The event marked an important milestone, showcasing the department's growth, achievements, and contributions over the years. Faculty members and students participated in the release, highlighting their collective efforts in preserving the department's legacy.



19. "Khatraat Celebration," - Farewell party

The Department of Chemistry at Sir Syed College organized a farewell party, "Khatraat Celebration," on March 1, 2025, at 11 AM in Room No. 316, to bid adieu to the B.Sc. Chemistry final-year students. The event was a heartfelt tribute to their journey, filled with gratitude, nostalgia, and best wishes for their future endeavors.





20. Alumni Achievements

> PhD Admission to premier Institutes in India

The Department of Chemistry, Sir Syed College, proudly congratulates Ms. Laila Jabir and Ms. Juhina Nisar on their remarkable academic achievements. Laila Jabir, an M.Sc. Chemistry graduate (2021-23), secured admission for a Ph.D. at the Centre for Nano Science and Engineering, IISc Bangalore, after qualifying for CSIR-JRF in December 2023. Juhina Nisar, from the M.Sc. Chemistry batch (2021-25), has been selected for a Ph.D. program in the Department of Sustainable Energy and Engineering at IIT Kanpur. Their success reflects the department's commitment to academic excellence and serves as an inspiration for aspiring researchers.



Athulya T., a B.Sc. Chemistry graduate from the 2021 batch of Sir Syed College, Taliparamba, has secured Ph.D. admission at the Material Research Centre, Indian Institute of Science (IISc) Bangalore. Her achievement highlights the strong academic foundation and research excellence fostered by the Department of Chemistry.



> Ph.D from IIT Mumbai

The Department of Chemistry, Sir Syed College, proudly congratulates its alumna, Sruthi Sudhakar, on the successful completion of her Ph.D. in Chemistry from IIT Bombay. Sruthi, who completed her B.Sc. (2013-16) and M.Sc. (2016-18) in Chemistry, has also qualified GATE 2019, CSIR-UGC NET 2019, and was a Prime Minister's Research Fellow. Her remarkable academic journey is an inspiration to current and future students, reflecting the department's commitment to excellence in education and research.



➤ GATE-2025 Qualifiers

The Department of Chemistry at Sir Syed College, Taliparamba, proudly congratulates its Alumni for their outstanding achievement in qualifying for GATE-2025. The qualifiers include Sithara (AIR-582), Lubna C C (AIR-620), and Rasla Moosa (AIR-1237), along with Fasna Ashraf K, Anjana P, and Akash Rajesh. Their success reflects the department's commitment to academic excellence and rigorous preparation in the field of chemistry.



➤ IIT JAM-2025 Qualifiers

The Department of PG Studies and Research in Chemistry at Sir Syed College, Taliparamba, proudly congratulates our Alumni Aleemath Saadiya K and Yusra Sainudheen M for qualifying IIT JAM 2025. Aleemath secured an all-India Rank of 761, while Yusra achieved an All India Rank of 962 in the B.Sc. Chemistry category (2021-24 batch). Their success highlights the department's dedication to academic excellence and its commitment to preparing students for prestigious national-level competitive exams.



> SET 2025 Qualifier

The Department of Chemistry at Sir Syed College, Taliparamba, proudly congratulates Najiya Nasreen C K from the M.Sc. Chemistry (2020-22) batch for qualifying the State Eligibility Test (SET) in January 2025. Her achievement reflects the department's dedication to academic excellence and professional success in the field of chemistry.



21. Alumni Placements

> Placement at Molecular Connections Pvt. Ltd, Bangalore

The Department of PG & Research Studies in Chemistry at Sir Syed College, Taliparamba, congratulates Aleena Mary D'souza on her placement at Molecular Connections Pvt. Ltd, Bangalore, as a Scientific Analyst. She completed her M.Sc. in Chemistry (2022-24) and conducted her M.Sc. project in Computational Chemistry at IIT Bombay. Her achievement reflects the department's dedication to fostering research excellence and career growth. This success highlights the impact of the DST-FIST-funded department in shaping future professionals in chemistry.



➤ Placement at IQVIA Bengaluru

The Department of PG Studies & Research in Chemistry at Sir Syed College, Taliparamba, congratulates its alumni, Akshara R, for securing a placement at IQVIA Bengaluru. She completed her B.Sc. in Chemistry from the college during 2019-2022. Akshara has been placed in the Custom Market Research division for Drugs and Treatments at IQVIA. The achievement highlights the college's commitment to academic excellence and career opportunities for its students.



Placement at Core Laboratory, DIP, in Dubai, UAE and Gold Factory in Kannur

The Department of PG Studies and Research in Chemistry at Sir Syed College, Taliparamba, proudly announced the successful placements of two students from the M.Sc Chemistry 2022-24 batch. Nasna K secured the position of Deputy Assay Master at the Gold Factory in Kannur, while Amrutha A P joined the Core Laboratory, DIP, in Dubai, UAE. This achievement highlights the department's dedication to fostering academic excellence and career opportunities for its students.



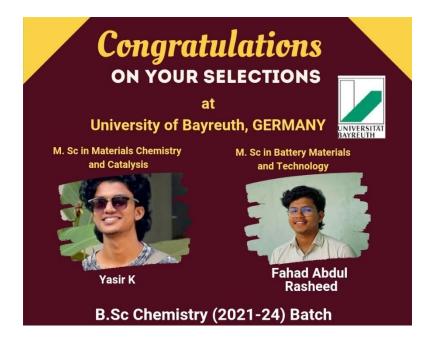
> Placement at National Paints Sharja, UAE

The Department of Chemistry at Sir Syed College, Taliparamba, proudly congratulates Jasna Mahmood, an M.Sc. Chemistry graduate (2021-2023 batch), on her successful placement. She has been appointed as a Technical Customer Relationship Officer at National Paints in Sharja, UAE, reflecting the department's commitment to career development. This achievement highlights the excellence of the department in nurturing students for global opportunities in the chemical industry.



22.M.Sc. Admission to the University of Bayreuth, Germany

The Department of PG Studies and Research in Chemistry at Sir Syed College, Taliparamba, proudly congratulates Yasir K and Fahad Abdul Rasheed on their selection for M.Sc. programs at the University of Bayreuth, Germany. Yasir K has been admitted to the M.Sc. in Materials Chemistry and Catalysis, while Fahad Abdul Rasheed will pursue an M.Sc. in Battery Materials and Technology. Their achievement reflects the department's excellence in preparing students for international academic opportunities in advanced chemistry research.



23. Alumni contribution

Alumni contribution of a book to academically meritorious student.

As part of an alumni contribution initiative, a book on Organic Chemistry was handed over to an academically meritorious student Ms. Jabeera. The funding for this generous contribution was provided by one of the college's distinguished alumni, Mr. Shuhaib. This initiative aims to support and motivate outstanding students in their academic journey.



➤ Alumni contribution (B.Sc. Chemistry 2021-2024 Batch) an amount to the department.

The alumni of the B.Sc. Chemistry (2021-2024) batch generously contributed an amount of ₹2000 to the department on the date 07/02/2025. This contribution reflects their gratitude towards the institution and their commitment to supporting future students.

