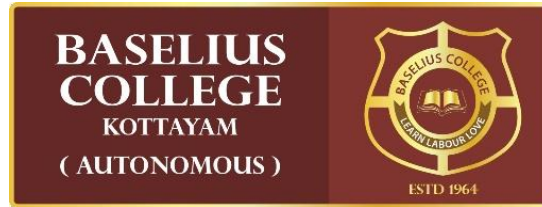


Baselius College, Kottayam



Innovation & Entrepreneurship Development Centre *An initiative of Kerala Startup Mission*

2025-26



Certificate Page

This is to certify that the following is a bonafide record of activities and achievements of Innovation & Entrepreneurship Development Centre (IEDC) for the academic year 2025-26. Necessary supporting documents have been attached wherever possible.

Teacher-in-charge

Dr. Aparna Thankappan

Verified by

IQAC Coordinator

Countersigned by

Dr. Biju Thomas

Principal

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2.	Molecular Modelling using Gaussian/GAMESS: Visualisation and Spectral Studies	27 th and 28 th June 2025	Workshop
3.	'Family Business to SME Success: A Marketer's Roadmap'	26 th June 2025	Invited Talk
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5.	From Campus to Creativity	14 th July 2025	Talk
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PART B: REPORT OF ACTIVITIES

Mastering Research: Methodology, Ethics and Productization

Date	:	10 th and 11 th June 2025
Time	:	9.30 am – 4 pm
Venue	:	Educational Theatre
Organizers	:	Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Research & Development Cell, Baselius College, Kottayam

Objective

- To train participants in research methodology, reference management, and ethical publication practices.
- To promote awareness on the process of translating research ideas into market-ready products.

Outcome

- Participants acquired practical skills in using citation databases, AI tools, and maintaining research integrity.
- Attendees developed a clear understanding of productization pathways and innovation strategies.

The Research and Development Cell of Baselius College, Kottayam organized a two-day workshop titled “*Mastering Research: Methodology, Ethics and Productization*” on June 10 and 11, 2025. The event was conducted at Educational Theatre as part of an IQAC initiative. The programme was designed in alignment with the Ph.D. coursework syllabus to benefit research scholars and faculty members.

Day 1 began with the first session on “*Idea to Market*” led by Dr. Sherin Sam Jose, Professor of Mechanical Engineering at Amal Jyothi College of Engineering. He elaborated on the importance of innovation, translational research, and how research ideas can be effectively converted into marketable products. The second session was handled by Mr. Jasimudeen S, UGC Librarian of St. Stephen’s College, Uzhavoor. He presented an engaging talk on “*Reference Management and AI Tools for Research*”. Participants gained practical insights on managing references using advanced digital tools and leveraging artificial intelligence in literature review and data management.

Day 2 featured the third session on “*Databases, Research Matrices & Publication Ethics*”. This session was delivered by Dr. Nibu A George, Assistant Professor of Physics at Baselius

College. The talk covered indexing and citation databases such as Web of Science and Scopus, journal metrics, and impact factors. He emphasized the importance of intellectual honesty, plagiarism checks, and maintaining research integrity. The session also included discussions on predatory journals, UGC CARE list, and ethical concerns in publication practices. Participants were provided with study materials to supplement the sessions. The workshop successfully created awareness on research methodology, publication ethics, and the commercialization of research outcomes. The event concluded with an interactive discussion, leaving the participants better equipped for their academic and professional research journeys.



Molecular Modelling using Gaussian/GAMESS: Visualisation and Spectral Studies

Date	:	27 th and 28 th June 2025
Time	:	9.30 am – 4 pm
Venue	:	Educational Theatre
Organizers	:	Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Research & Development Cell, Baselius College, Kottayam

Objective

- To familiarize participants with molecular modelling techniques using Gaussian and GAMESS software.
- To train participants in interpreting computationally derived spectral data and correlating it with experimental studies.

Outcome

- Participants acquired hands-on experience in input preparation, structure visualization, and computational analysis.
- Attendees gained the ability to predict and analyze IR, UV-Vis, and NMR spectra, enhancing their research competencies.

The Research & Development Cell of Baselius College, Kottayam, in collaboration with the Business Innovation and Incubation Centre (BIIC), organized a two-day workshop on “*Molecular Modelling using Gaussian/GAMESS: Visualisation and Spectral Studies*” on 27th and 28th June 2025. The workshop was conducted at Baselius College from 9:30 am to 3:30 pm on both days. The event was jointly organized by the Departments of Physics and Chemistry. It was part of the FYUGP syllabus and attracted faculty members, research scholars, and students from various institutions. The sessions were handled by Dr. Sherin Joy, Ms. Christina Mariam Mathew, and Dr. Anju Linda Varghese, Assistant Professors of Chemistry at Baselius College, Kottayam.

Day 1 began with an introduction to computational chemistry and the fundamentals of molecular modelling. Participants were given an overview of Gaussian and GAMESS software packages, their applications, and relevance in modern chemical research. Dr. Sherin Joy introduced the basic concepts of electronic structure calculations and explained how theoretical chemistry complements experimental work. The afternoon session focused on practical

demonstrations, where participants learned the step-by-step procedure for input preparation and visualization of molecular structures. Day 2 continued with advanced sessions on spectral studies using Gaussian/GAMESS. Ms. Christina Mariam Mathew explained how computational methods can be applied to predict IR, UV-Vis, and NMR spectra. She demonstrated how visualization tools can be integrated with spectral analysis to interpret molecular behaviour.

Dr. Anju Linda Varghese elaborated on practical applications of computational methods in ongoing research projects, linking theory with real-life case studies. Participants gained insights into how spectral data from computational studies can support and validate experimental findings. The workshop also addressed common challenges faced while handling software packages and offered solutions through hands-on training. Interactive discussions allowed participants to clarify doubts and exchange experiences regarding computational research. Study materials and resource links were provided to enable further self-learning and practice. By the end of the two days, the participants were able to perform basic molecular modelling, visualize results, and analyze spectral data using Gaussian and GAMESS. The programme successfully bridged the gap between theoretical concepts and practical applications in computational chemistry.



Let's Talk Business Series 2025–26

Family Business to SME Success: A Marketer's Roadmap

Date	: 26 th June 2025
Time	: 12.0 pm
Venue	: Symphony Hall
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Department of Business Administration, Baselius College, Kottayam

Objective

- To provide students with practical insights into transforming family businesses into successful SMEs through effective marketing strategies.

Outcome

- Participants understood the roadmap for business growth, gaining inspiration and actionable ideas for future entrepreneurial ventures.

The Department of Business Administration, Baselius College, Kottayam, inaugurated its *Let's Talk Business Series 2025–26* with a highly engaging session. The programme was held on Thursday, 26th June 2025, at Symphony Hall at 12 noon. The invited speaker was Mr. Vinod Thomas, Owner of Thomas & Sons and Head of Marketing at Chennattu Group of Industries. The session focused on the theme “*Family Business to SME Success: A Marketer's Roadmap*”. He shared his personal entrepreneurial journey, highlighting the challenges and opportunities in transforming a family-owned venture into a successful SME. He explained how marketing strategies play a pivotal role in scaling businesses. The talk emphasized branding, customer loyalty, and innovation as essential pillars for business growth. Participants were introduced to practical case studies from his own experience. He stressed the importance of adaptability in today's competitive market scenario. The session also dealt with how SMEs can effectively compete with larger corporations. Students gained insights into how traditional family businesses can modernize and expand.



Idea to Reality

Date	: 14 th July 2025
Time	: 8:30 am to 10:00 am
Venue	: Room No. 115
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Department of Commerce, Baselius College, Kottayam

Objective

- To inspire first-year students to develop innovative ideas and explore ways to convert them into practical outcomes.

Outcome

- Participants Students gained motivation, awareness, and confidence to utilize institutional platforms for transforming their ideas into real-life projects.

The session, titled “*Idea to Reality*,” was handled by Dr. Aparna Thankappan, Assistant Professor, Department of Physics, Baselius College. The programme was conducted in Room No. 115 on 14th July 2025 from 8:30 am to 10:00 am and aimed at inspiring students to nurture innovative ideas and transform them into practical realities. Dr. Aparna explained the importance of creativity, critical thinking, and problem-solving as essential skills for young learners. She highlighted how innovation begins with small ideas and gradually develops into impactful projects with proper planning and execution. The session also introduced students to various platforms and opportunities available at the institution, such as IIC and IEDC, for promoting innovation and entrepreneurship. Through engaging examples, the resource person motivated the participants to explore their own potential and take active steps towards implementing their ideas. The interactive discussions created an encouraging environment where students expressed their curiosity and clarified their doubts. Overall, the orientation programme was successful in setting a positive tone for the first-year students, guiding them to think beyond academics and explore the world of innovation and creativity.



From Campus to Creativity

Date	: 14 th July 2025
Time	: 10:00 am to 11:00 am
Venue	: Room No. 15
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Baselius College, Kottayam

Objective

- To motivate science students to integrate innovation and creativity into their academic and professional pursuits.

Outcome

- Students were inspired to think beyond academics, fostering a spirit of innovation and confidence to take part in entrepreneurial initiatives.

The Innovation and Entrepreneurship Development Centre (IEDC) of Baselius College, in association with the Institution's Innovation Council (IIC), organized a motivational programme exclusively for science students. The session aimed at nurturing innovation, creativity, and entrepreneurial thinking among young learners. Dr. Aparna Thankappan, IEDC Nodal Officer, led the programme and inspired students to channel their academic knowledge into practical applications and innovative solutions. The event focused on bridging the gap between classroom learning and real-world problem-solving, thereby motivating participants to explore opportunities in research, technology, and entrepreneurship. Students actively interacted with the resource person, gaining valuable insights into the importance of creativity, perseverance, and confidence in shaping their future. The programme instilled a sense of self-belief and encouraged participants to take their first step toward innovation-driven projects. The session also highlighted the significance of interdisciplinary collaboration and teamwork in scientific advancement.



Profile Visibility Programme

Date	: 19 th June 2025
Time	: 12.00 pm
Venue	: Symphony Hall
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), HRD Centre, Baselius College, Kottayam

Objective

1. To create awareness and train students in the Digital Workforce Management System (DWMS) for enhanced employability.

Outcome

1. Participants Selected students were trained to use DWMS effectively and successfully guided their peers in registration and profile management.

The Institution's Innovation Council (IIC), Innovation and Entrepreneurship Development Centre (IEDC), and HRD Centre of Baselius College, Kottayam jointly organized a **Profile Visibility Programme** on 19th June 2025 at 12.00 pm in Symphony Hall. The programme aimed to create awareness among students about the Digital Workforce Management System (DWMS) and its role in enhancing employability. The session focused on familiarizing participants with the features and benefits of DWMS for building a strong professional profile. Selected students were provided with hands-on training on the effective use of the platform. The resource persons guided the participants on profile creation, updating academic details, and managing their digital profiles efficiently. The programme also emphasized the importance of maintaining a visible and updated professional presence in digital workforce platforms. As an outcome, the trained students successfully assisted and guided their peers in the registration process and profile management in DWMS.



Robotics for Beginners

Date	:	18 th September 2025
Time	:	9.30 AM to 3.30 PM
Venue	:	Smart Room
Organizers	:	Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), HRD Centre, Baselius College, Kottayam

Objective:

- To introduce students to the fundamentals of Internet of Things (IoT) and Robotics and to build foundational awareness and interest in emerging technologies among beginners.

Outcome:

- Participants acquired basic conceptual understanding of IoT and robotics, along with clarity on their applications and future academic and career prospects.

The programme titled “Internet of Things and Robotics for Beginners” was organized by IDEASPIRE at Baselius College, Kottayam, at the Smart Room. The session was conducted on 18th September 2025 from 9.30 AM to 3.30 PM. The resource person, Mr. Nibu B Thomas, Assistant Professor, Department of Electronics, Baselius College, Kottayam, led the programme. He introduced the basic concepts of IoT and robotics in a simple and engaging manner suitable for beginners. The session covered fundamental components, real-life applications, and the growing relevance of these technologies in various sectors. Students actively participated in discussions and demonstrations, which enhanced their learning experience. The programme successfully motivated participants to explore technology-driven innovation and pursue further learning in the field of IoT and robotics.



Rietveld Refinement of X-Ray Diffraction (XRD) Data using FullProf Software

Date	: 20 th September 2025
Time	: 9.30 AM to 3.30 PM
Venue	: Smart Room
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), HRD Centre, Baselius College, Kottayam

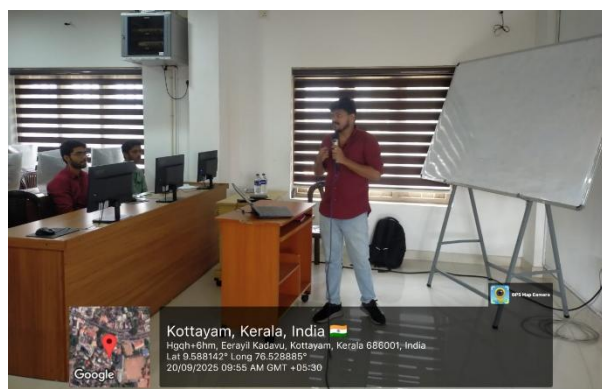
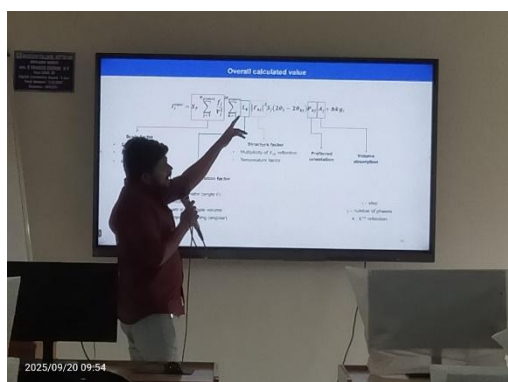
Objective:

To provide research scholars with theoretical understanding and practical training in Rietveld refinement of XRD data using FullProf software.

Outcome:

The participants developed the ability to independently analyze and refine XRD data for accurate structural characterization in their research studies.

The Research & Development Cell of Baselius College, Kottayam, organized a one-day hands-on training programme on *Rietveld Refinement of X-Ray Diffraction (XRD) Data using FullProf Software* on 20 September 2025 in association with the Business Innovation and Incubation Centre (BIIC), Mahatma Gandhi University. The programme witnessed the participation of 34 research scholars from various institutions, reflecting its academic relevance and outreach. The session aimed at strengthening practical skills in crystallographic data analysis and structural refinement techniques. Mr. Mohamed Nawaz Vengoli, Research Fellow, Department of Physics, served as the resource person and provided comprehensive insights into the fundamentals of XRD and the theoretical framework of Rietveld refinement. He systematically explained the mathematical models and fitting procedures involved in refinement analysis. The hands-on training enabled participants to work directly with diffraction data using the FullProf software package. The interactive format encouraged participants to clarify doubts and engage in technical discussions. Scholars were given opportunities to analyze sample datasets, enhancing their confidence in applying the method independently. The programme concluded successfully with positive feedback, as participants acknowledged the practical exposure gained and its usefulness for their ongoing and future research work.



Idea Challenge

Date	: 23 rd September 2025
Time	: 9.30 AM
Venue	: Symphony Hall
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Baselius College, Kottayam

Objective:

To provide a competitive platform for students and young innovators to present their business ideas and pitch decks, thereby nurturing innovation, entrepreneurial thinking, and startup culture.

Outcome:

Participants enhanced their pitching skills, gained expert feedback, and developed a clearer understanding of converting innovative ideas into viable business models.

The IDEA Challenge 3.0 – Pitch Deck V (2025) was organized at Baselius College, Kottayam, under the initiative of Samrambhak Mithra. The programme was held on 23rd September 2025 commencing at 9.30 AM. The event was presented by Federal Bank and powered by ResiTech and Pramana, with active support from ecosystem, community, and technology partners. Sri. P. K. Raju, Chairman, ARBEE Group, Thalayolaparambu, graced the occasion as the Chief Guest. The competition provided a structured platform for participants to present innovative ideas through well-designed pitch decks. Expert evaluators assessed the presentations based on innovation, feasibility, scalability, and problem-solving potential. The sessions encouraged interaction between participants and industry experts, fostering experiential learning. Constructive feedback and mentoring inputs helped participants refine their ideas and presentation strategies. The programme significantly contributed to strengthening the entrepreneurial ecosystem within the institution and inspired students to pursue startup-driven initiatives.



From Student to Founder: My Journey

Date	: 26 th September 2025
Time	: 12.00 PM
Venue	: Symphony Hall
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Department of Commerce, Baselius College, Kottayam

Objective:

To motivate students by sharing real-life entrepreneurial experiences of a successful alumna and to inspire them to pursue leadership, innovation, and entrepreneurial careers.

Outcome:

Students gained practical insights into the startup journey, financial leadership, and the importance of perseverance, enabling them to relate academic learning with real-world success.

As part of the **Commerce Association 2025–26** activities, Baselius College, Kottayam organized the **“Ignite, Inspire, Impact: Alumni Talk Series”** at the **Symphony Hall**. The session titled **“From Student to Founder: My Journey”** was held on **26th September 2025 at 12.00 noon**. The programme featured **Ms. Nimmy John**, Co-founder and CFO of **BNKHUB Finsery Pvt. Ltd.** and winner of the **Startup of the Year 2025 Award**, as the speaker. Being an alumna of the **M.Com 2017–19 batch**, she shared her inspiring transition from a student to a successful entrepreneur. The talk highlighted the challenges faced during the startup journey and the role of discipline, consistency, and courage in achieving success. Ms. Nimmy emphasized financial literacy, decision-making skills, and leadership as key components of entrepreneurial growth. Students attentively followed the session and actively engaged through questions and interactions. The speaker encouraged students to embrace failures as learning opportunities and to remain committed to their goals. The programme successfully strengthened alumni–student interaction and left a lasting motivational impact on the participants.



Exhibition Stall

An exhibition stall was organized on 28th November 2025 in connection with LuminAura 2025 to showcase the entrepreneurial initiatives and innovative ventures undertaken by our students.



Homecare Products Manufacturing

Date	: 9 th January 2026
Time	: 12.00 PM
Venue	: Chemistry Lab
Organizers	: Department of Chemistry, Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Baselius College, Kottayam

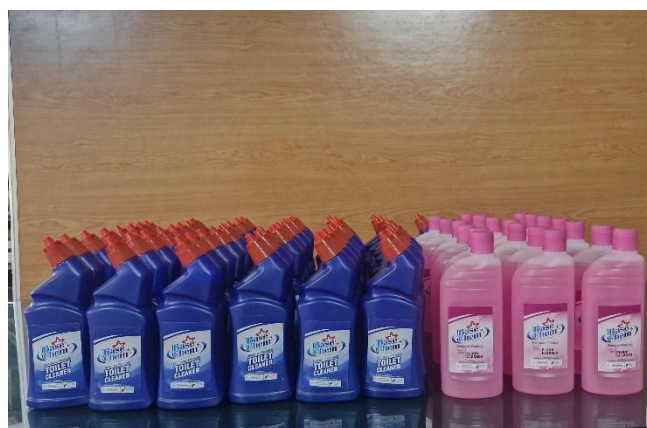
Objective:

To provide students with practical training in the formulation and manufacturing of homecare products while promoting entrepreneurial awareness.

Outcome:

Students acquired hands-on experience in preparing homecare formulations and developed an understanding of their potential for small-scale enterprise development.

The Department of Chemistry, in association with the Institution's Innovation Council (IIC), Innovation and Entrepreneurship Development Centre (IEDC), and the Department of Commerce, Baselius College, Kottayam, organized a programme on Homecare Products Manufacturing on 9th January 2026 at 12.00 PM in the Chemistry Lab. The session was conducted to provide practical exposure to the formulation and preparation of commonly used homecare products. Students were introduced to the basic principles involved in product formulation, including selection of raw materials, safety measures, and quality considerations. Demonstrations were conducted on the preparation of products such as liquid hand wash, surface cleaner, and detergent formulations. Students actively participated in the hands-on preparation process under faculty guidance. The collaborative effort of the organizing departments ensured interdisciplinary learning linking chemistry with entrepreneurship and commerce. The programme concluded successfully with participants gaining practical skills and insights into converting laboratory knowledge into viable small-scale business opportunities.



Cybersecurity Workshop

Date	: 23 rd January 2026
Time	: 9.30 AM
Venue	: Mrs. Mammen Mappilai Hall
Organizers	: Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Department of Physics, Chemistry and Mathematics of Baselius College, Kottayam

Objective:

To create awareness among students about cyber security threats, ethical hacking practices, and responsible digital conduct.

Outcome:

Students gained a clear understanding of cyber security concepts, ethical challenges, and developed heightened awareness towards safe and ethical use of digital platforms.

An Industrial Expert Session on “Cyber Security and Ethical Hacking” was successfully conducted at Baselius College, Kottayam, organized by TechByHeart in association with the Department of Physics, Chemistry and Mathematics. The session was held on 23rd January from 9:30 AM to 1:30 PM. The programme witnessed the active participation of 58 students from various departments. The expert session was led by Mr. Dhanoop R., Cyber Security Analyst, who delivered an insightful and engaging lecture on contemporary challenges in cyber security. He elaborated on key concepts such as ethical hacking practices, cyber threats, and digital safety measures. Special emphasis was given to emerging issues like the dark web, ethical concerns in hacking, and the human identity crisis in the digital era. The programme successfully created awareness among students about responsible digital behavior and career opportunities in cyber security.



Work Readiness Programme

Date	: 20 th February 2026 to 24 th February 2026
Time	: 9.00 am – 2.00 pm
Venue	: Mrs. Mammen Mappilai Hall
Organizers	: Placement Cell, Institution's Innovation Council (IIC), Innovation, Entrepreneurship Development Centre (IEDC), Baselius College, Kottayam

Objective:

To equip students with essential employability skills and prepare them effectively for campus recruitment and placement opportunities.

Outcome:

Students developed improved resume writing skills, interview confidence, communication competence, and overall work readiness for professional careers.

The Placement Cell of Baselius College, Kottayam (Autonomous), organized the Work Readiness Programme 2026 from 20 February to 24 February 2026 at Mrs. Mammen Mappilai Hall as part of the preparations for the placement drive scheduled on 25 February 2026. The programme was conducted as an IQAC initiative in association with the Institution's Innovation Council (IIC), IEDC, and other institutional bodies. The sessions were handled by Preethi Mariam Varghese and Arunvishnu U from ASAP Kerala, who served as the resource trainer for the programme. The training focused on resume building and professional profile enhancement to help students present themselves effectively to recruiters. Participants received structured guidance on personality development and workplace etiquette. Intensive interview skills training sessions were conducted, including mock interviews and real-time feedback. Special emphasis was given to confidence building and communication improvement to strengthen employability skills. The trainers also discussed effective preparation strategies for campus recruitment processes. Students actively participated in interactive activities designed to simulate real workplace scenarios. The programme concluded successfully with enhanced preparedness and enthusiasm among students for the upcoming placement drive.

