



**St. John's Ecosystem of  
Advanced Learning (SEAL)**

## St. John's Ecosystem of Advanced Learning (SEAL)

### 1. Title of the Practice:

St. John's Ecosystem of Advanced Learning (**SEAL**)

### 2. Objectives of the Practice:

- **Holistic Educational Resources and Services:** SEAL endeavors to curate and deliver a comprehensive set of educational resources and services. This involves the development and implementation of programs that cater not only to the academic needs of enrolled students but also extend to the broader community, ensuring a well-rounded educational experience.
- **Commitment to Academic Excellence:** One of SEAL's foremost objectives is to uphold St. John's College's unwavering commitment to academic excellence. This encompasses the design and execution of initiatives that enhance the quality of education provided, fostering an environment conducive to intellectual growth, critical thinking, and academic achievement.
- **Promotion of Inclusivity:** SEAL is dedicated to fostering an inclusive educational environment. Objectives in this domain include the implementation of policies and practices that celebrate diversity, encourage equal opportunities, and create a sense of belonging for all individuals within the educational community.
- **Community Development Initiatives:** Recognizing the integral role education plays in community development, SEAL is committed to spearheading initiatives that contribute to the betterment of the community at large. This involves collaborative projects, outreach programs, and partnerships aimed at addressing societal needs and fostering positive social change.
- **Enhancement of Physical Well-being:** SEAL places a significant emphasis on the physical well-being of both enrolled students and the broader community. Objectives in this realm encompass the development and promotion of health and wellness programs, facilities, and activities that support a healthy lifestyle and overall well-being.

- **Pursuit of Research and Innovation:** SEAL actively promotes and facilitates the pursuit of research and innovation within the educational landscape. This includes the establishment of platforms for collaborative research, the provision of resources to support innovative projects, and the cultivation of a culture that encourages continuous exploration and advancement in various fields of study.

### 3. The Context:

St. John's College, deeply rooted in the Major Archdiocese of Thiruvananthapuram, boasts a storied history of academic brilliance and community enrichment. The introduction of SEAL stands as a responsive measure to the dynamic shifts in the educational panorama, ensuring the institution's perpetual position at the forefront of scholastic progress. The college's esteemed accomplishments, notably securing an 'A' grade accreditation from NAAC and earning recognition under prestigious schemes, set a compelling stage for the ambitious goals of SEAL.

### 4. The Practice:

Academic Excellence:

SEAL aspires to elevate academic prowess by offering tailored support services, including personalized tutoring, workshops, and access to an extensive repository of educational resources. Crucially, these services transcend the confines of St. John's College, instilling a culture of perpetual learning within the broader community.

Career Enrichment:

In bridging the gap between academic triumphs and employability, SEAL champions comprehensive career counseling, internship programs, and skill development workshops. By imparting practical skills, it empowers students to make well-informed career choices and successfully navigate the demands of the contemporary job market.

Physical Fitness and Wellness:

Acknowledging the pivotal role of physical well-being in holistic development, SEAL advocates for a culture of physical fitness and wellness. State-of-the-art sports facilities, wellness programs, yoga, athletics, and team sports collectively

contribute to nurturing healthy, active lifestyles among both students and the community.

#### Community Engagement:

SEAL's initiatives extend beyond the campus borders, actively involving the wider community through educational programs, seminars, and awareness campaigns. These endeavours are meticulously tailored to meet the educational needs of the surrounding region, reinforcing the institution's unwavering commitment to community development.

#### Promotion of Research and Innovation:

Recognizing the profound importance of research and innovation, SEAL actively supports and encourages initiatives within and beyond the college. Access to cutting-edge research facilities and the cultivation of an environment conducive to innovation underpin this steadfast commitment.

#### Collaborations:

SEAL actively forges collaborative alliances with industry, government, and other educational institutions. These affiliations pave the way for internships, research projects, and real-world learning opportunities, significantly enhancing students' practical acumen and professional readiness.

### **5. Evidence of Success:**

Success within SEAL is gauged through its impact on students' academic performance, career readiness, physical well-being, community engagement, and research output. Key performance indicators encompass academic achievement metrics, employment rates, community participation, and the tangible outcomes of research endeavours.

### **6. Problems Encountered and Resources Required:**

Anticipated challenges encompass resource allocation, community outreach, and the imperative of sustaining engagement. The successful implementation and continuity of SEAL will necessitate adequate resources, both financial and personnel, ensuring its enduring impact.

### **7. Notes:**

## **SEAL – A Journey towards Academic Excellence**

The initiation of SEAL signifies St. John's College's commitment to advancing education in a comprehensive manner. SEAL is poised to become a model for advanced learning, reflecting the institution's dedication to excellence and community service.

This report highlights the multifaceted approach of SEAL, aligning with the core values of St. John's College and showcasing its commitment to the holistic development of students and the wider community.

The SEAL initiative has started in the academic year 2018-2019. Nestled within the embrace of the Major Archdiocese of Thiruvananthapuram, St. John's College unfolds its tale, a narrative steeped in the rich hues of academic brilliance and community enrichment. Here, history breathes, a living testament to the institution's commitment to scholarly excellence and societal upliftment.

The genesis of SEAL, a beacon illuminating the academic landscape, emerges as a thoughtful response to the undulating currents of educational evolution. In crafting this initiative, the college ardently safeguards its perennial stance at the vanguard of scholastic progress. SEAL's inception is not merely a strategic maneuver but a dedication to weaving an educational tapestry that transcends temporal boundaries.

Within the hallowed halls of St. John's College, accolades adorn its journey. The coveted 'A' grade accreditation bestowed by NAAC stands as a laurel, a testament to the institution's unwavering pursuit of excellence. Recognition under prestigious schemes further burnishes this academic tapestry, setting the stage with resplendent allure for the lofty aspirations of SEAL. The college's triumphs, woven into its narrative, form the foundation upon which SEAL's ambitious goals stand poised, ready to carve new milestones in the annals of educational distinction.

The programme had three phases initially and they are

1. Initiation phase
2. Implementation phase
3. Outcome Phase

## 1. Initiation Phase

In the annals of St. John's College, the initiation of the SEAL initiative unfurled its inaugural chapter during the academic year 2018-2019. Cradled within the nurturing embrace of the Major Archdiocese of Thiruvananthapuram, the college commenced a transformative journey, intertwining the threads of academic brilliance and community enrichment into the very fabric of its existence.

The birth of SEAL, akin to a radiant beacon in the academic landscape, emerged as a discerning response to the undulating currents of educational evolution. With a deliberate and thoughtful approach, the college not only embarked on a strategic maneuver but, more significantly, embraced a profound dedication to crafting an educational tapestry that transcends the constraints of time.

Amidst the hallowed halls of St. John's College, where history breathes and narratives of excellence unfold, accolades adorn its journey. The prestigious 'A' grade accreditation bestowed by NAAC stands as a laurel, a testament to the institution's unwavering pursuit of excellence. Further, the recognition garnered under prestigious schemes serves as a gilded frame, enhancing the resplendent allure that sets the stage for the lofty aspirations of SEAL.

These accolades, woven intricately into the narrative of the college's triumphs, now form the sturdy foundation upon which SEAL's ambitious goals stand poised. As the initiative takes its initial steps, it is poised to carve new milestones, leaving an indelible mark in the distinguished annals of educational excellence.

## 2. Implementation Phase

In the ardently pursued implementation phase, the college, driven by an unwavering commitment to excellence, spared no effort in exploring every conceivable measure to orchestrate the seamless operation of the program in a highly practical and efficacious manner. This endeavor was not merely a perfunctory pursuit but rather a dedicated mission to infuse vitality into the academic landscape.

With a visionary zeal, the institution beseeched its various departments to embark on a multifaceted journey of academic and non-academic endeavors. These initiatives, intricately designed, aimed to serve as the catalytic force propelling the

initial momentum required for the program's resounding success. The college's directive encompassed the orchestration of national and international-level seminars, wherein luminaries and experts convened to share their profound insights, fostering an intellectual milieu that transcended borders.

Recognizing the pivotal role of competitive examinations in shaping the academic trajectory of students, the college, in a laudable move, instituted specialized coaching classes for examinations of paramount significance, such as NET, JAM, and GATE. This bespoke coaching aimed not only to impart knowledge but also to instill confidence and resilience in aspiring scholars, preparing them for the challenges that lay ahead.

In an outreach strategy that extended beyond the confines of the institution, the college proactively forged collaborations with esteemed national-level institutes and organizations. These alliances were strategic endeavors, fostering a synergistic exchange of knowledge and resources, thereby enriching the academic tapestry.

The program's comprehensive approach further encompassed the facilitation of enriching internships, providing students with invaluable hands-on experience that bridged the theoretical-practical divide. Additionally, students were afforded the unique opportunity to venture into the realm of national-level laboratories, gaining firsthand exposure to cutting-edge research and innovation.

The college's commitment to the program's success manifested not only in meticulous planning but also in a steadfast dedication to providing students with a holistic and transformative educational experience. The confluence of academic rigor, collaborative endeavors, and experiential learning poised the program to emerge as a beacon of academic excellence, transcending conventional boundaries and setting a precedent for educational innovation.

*The following national and international seminars have been organised as part of SEAL*

- One Day Seminar on “Rocket Fuel and Propulsion Materials”

Date: 31st October 2018

Distinguished Speaker: Dr. K. N. Ninan, Former Deputy Director and Outstanding Scientist, VSSC-ISRO and Emeritus Professor, IIST

Immerse yourself in the captivating realm of rocketry as Dr. K. N. Ninan, a luminary in the field, unravels the intricacies of rocket fuel and propulsion materials. Drawing from his rich experience as the Former Deputy Director of VSSC-ISRO, Dr. Ninan will ignite minds with profound insights, offering a glimpse into the cutting-edge advancements propelling space exploration.

➤ One Day Seminar on “Smart Materials”

Date: 16th October 2019

Esteemed Speaker: Dr. K. G. Sreejalekshmi, Associate Professor, Indian Institute of Space Science and Technology

Embark on a journey into the future of materials science with Dr. K. G. Sreejalekshmi, an authority in the domain of smart materials. As an Associate Professor at the Indian Institute of Space Science and Technology, Dr. Sreejalekshmi will unravel the transformative potential of materials that respond intelligently to external stimuli, opening new vistas for technological innovation.

➤ One Day Online Seminar on “Future Materials for Hydrogen Production”

Date: 26th November 2020

Eminent Speaker: Dr. Ameen Sha M, HOD, Department of Basic Science & Humanities, MACE Trivandrum

Join Dr. Ameen Sha M in an exploration of the future landscape of materials driving hydrogen production. As the Head of Department at MACE Trivandrum, Dr. Ameen Sha M will delve into the evolving materials landscape, shedding light on their role in shaping the future of sustainable energy.

➤ One Day Online Seminar on “Current Challenges in the Field of Hydrogen Production and Storage”

Date: 28th December 2021

Illustrious Speaker: Prof. S. M. A. Shibili, Professor, Department of Chemistry, University of Kerala and President of IAHEAM



Navigate the challenges in hydrogen production and storage with Prof. S. M. A. Shibili, a distinguished figure in the realm of chemistry. As the President of IAHEAM and a Professor at the University of Kerala, Prof. Shibili will provide invaluable insights into overcoming current hurdles in this critical field.

- One Day Seminar On “Current Opportunities in Chemistry (India / Abroad)”

Date: 29th August 2022

Insightful Speaker: Dr. Visakh V. S Pillai, Post Doctoral Researcher, The Netherlands

Dr. Visakh V. S Pillai, a seasoned Post Doctoral Researcher based in The Netherlands, invites participants to explore the myriad opportunities in the realm of chemistry both in India and abroad. Uncover the exciting prospects and potential pathways that await aspiring chemists in the ever-evolving landscape of chemical sciences.

- One Day Seminar on “Career Opportunity in the Department of Atomic Energy”

Date: 22nd February 2023

Knowledgeable Speaker: Mr. Afijith R Nair, Scientific Officer, Indira Gandhi Centre for Atomic Research, Kalpakam

Gain profound insights into career opportunities within the Department of Atomic Energy as Mr. Afijith R Nair, a Scientific Officer at the prestigious Indira Gandhi Centre for Atomic Research, Kalpakam, shares his expertise. Explore the fascinating intersection of science and industry in this illuminating seminar.

- One Day Seminar on “Emerging Trends and Opportunities in Chemical Sciences”

Date: 8th August 2023

Erudite Speaker: Dr. Sreeprasanth Pulinthanathu Sree, Faculty Member, Department of Materials Engineering, KU Leuven, Belgium

Join Dr. Sreeprasanth Pulinthanathu Sree, a distinguished faculty member at KU Leuven, Belgium, as he unravels the emerging trends and abundant opportunities in the dynamic realm of chemical sciences. Delve into the forefront of innovation and discovery in this enlightening exploration of the future of chemical sciences.

- International Webinar on 'Emerging Research Methods in Social and Political Science' (Sept-October 2020):

Witnessed on the global stage, an exquisite international webinar unfolded in the transcendent hues of intellectual exploration during the months of September to October 2020. This thought-provoking symposium, graced by luminaries, saw the erudition of distinguished figures such as Dr. Dag Erik Berg from Molde University College, Norway, Dr. Kristin Plys from the University of Toronto, Canada, and notable researchers like Dr. Samson Bezabeh from the African Studies Center in Leiden, The Netherlands. Joining this illustrious panel were Shalini Rudra, a public health researcher from the University of Warwick, UK, and Manu P Toms, the discerning Editor of Venture Capital and Internet Economy at ET Prime, The Times of India. Each speaker, a veritable maestro in their domain, lent their voice to an engaging exploration of 'Emerging Research Methods in Social and Political Science.'

- National IIPA-KRB Webinar Series on 'Assembly Elections 2020- The Challenges Ahead' (February 5, 2021):

An intellectual rendezvous unfolded on February 5, 2021, as the IIPA-KRB, in collaboration with the Indian Institute of Public Administration, New Delhi, orchestrated a compelling national webinar series. Delving into the complexities surrounding 'Assembly Elections 2020 - The Challenges Ahead,' the session brought forth the collective wisdom of esteemed experts navigating the nuanced landscape of electoral dynamics.

- Webinar on 'New-age Governance in the Time of COVID Pandemic: The Emerging Relevance of UMANG' (May 26, 2021):

Against the backdrop of a world grappling with the exigencies of the COVID-19 pandemic, a webinar of profound significance unfolded on May 26, 2021. Collaborating with the Indian Institute of Public Administration, New Delhi, the session explored the theme "New-age Governance in the Time of COVID Pandemic: The Emerging Relevance of UMANG." Dr. R.K. Suresh Kumar, Chairman IIPA-KRB, and Dr. Raj Sony Jalaraj, from the Department of Communication at MacEwan University, inaugurated the event and presented the theme paper, respectively, setting the stage for a discourse on the transformative potential of digital governance in unprecedented times.

- Lecture Series on 'The Making of a Modern Nation: Revisiting Nehruvian Legacies' (March 30, 2022):

A captivating lecture series unfolded on March 30, 2022, as a collaborative effort with the UGC Nehru Study Centre, University of Kerala, delved into the evocative theme of "The Making of a Modern Nation: Revisiting Nehruvian Legacies." Expert speakers illuminated the intellectual landscape, offering nuanced perspectives on the enduring legacies of Jawaharlal Nehru in shaping the identity of a modern nation.

- Two-day National Seminar on 'Democracy and Dissent in Contemporary India' (November 17-18, 2022):

The echoes of deliberative discourse resounded on November 17th and 18th, 2022, as a profound two-day national seminar unfolded in collaboration with the Institute of Parliamentary Affairs, Government of Kerala. Inaugurated by Dr. Raju Narayana Swamy IAS, Principal Secretary, Department of Parliamentary Affairs, Government of Kerala, and graced by the keynote address from Dr. Valerian Rodrigues, Professor (Retd), Centre for Political Studies, JNU, New Delhi, the seminar explored the multifaceted dimensions of 'Democracy and Dissent in Contemporary India.'

- Inauguration of Second Batch of Certificate Course in 'Advances in Public Policy and Governance' (January 9, 2023):

The corridors of intellectual growth reverberated with anticipation on January 9, 2023, as the second batch of the certificate course in "Advances in Public Policy and Governance" was inaugurated in collaboration with the Indian Institute of Public Administration, New Delhi. Dr. Alexander Jacob, IPS, graced the occasion as the esteemed chief guest, adding a touch of prestige to the commencement of this scholarly journey.

- Lecture on 'Conceptualizing State Power' (August 14):

On the auspicious day of August 14, intellectual enthusiasts were treated to a compelling lecture on "Conceptualizing State Power" by Dr. Jayaseelan Raj, hailing from the Department of International Development at King's College, London. The lecture, a symphony of ideas, unfolded as a testament to the ceaseless quest for knowledge in the scholarly pursuit of understanding the intricacies of state power.

- "Reading Cricket" International Webinar Series

Renowned Historian and Cricket Writer Ramachandra Guha to Headline Final Session of "Reading Cricket" International Webinar Series

On 14 December, 2020 - St. John's College, Anchal, proudly announces the esteemed presence of historian and cricket connoisseur Ramachandra Guha at the conclusive session of the "Reading Cricket" International Webinar Series. The event is organized by the Department of English and the Internal Quality Assurance Cell (IQAC) of St. John's College, Anchal.

Mr. Guha, celebrated for his profound insights into the historical nuances of cricket, is set to illuminate the virtual stage with a captivating discourse on his latest literary masterpiece, "The Commonwealth of Cricket." This final session of the International Webinar Series promises to be an enriching experience for cricket enthusiasts, history aficionados, and literature connoisseurs alike.

The webinar is scheduled to take place on December 15, 2020, commencing at 04:30 PM. The event will be conducted online via the Zoom platform,

ensuring a seamless and accessible experience for attendees. Additionally, the session will be simultaneously live-streamed on YouTube, broadening the reach to a global audience.

One of the unique features of this session is the interactive component, as Mr. Guha will engage in a dynamic Q&A session. Questions will be fielded from the moderator as well as the virtual audience, adding a participatory element to the intellectual discourse.

St. John's College, Anchal, extends a warm invitation to all cricket enthusiasts, scholars, and the general public to join this literary and cricketing extravaganza. Be prepared for an engaging and insightful journey into the heart of cricket's cultural significance with Ramachandra Guha.

### *Distinguished Academicians – Cordially Invited for Enlightening Discourses*

- Dr. K. N. Ninan, a luminary in the realm of aerospace technology, served as the Former Deputy Director and Outstanding Scientist at VSSC-ISRO, and currently holds the esteemed position of Emeritus Professor at IIST. On the illustrious date of 31st October 2018, he graced our institution with his erudition, unraveling the intricacies of "Rocket Fuel and Propulsion Materials."
- Dr. K. G. Sreejalekshmi, an erudite scholar and Associate Professor at the Indian Institute of Space Science and Technology, adorned our academic milieu on the 16th of October 2019. With profound insights, she delved into the captivating domain of "Smart Materials," offering a nuanced perspective on their applications and significance.
- Professor S. M. A. Shibili, a distinguished academician in the Department of Chemistry at the University of Kerala and the incumbent President of IAHEAM, graced our institution on the enlightening day of 28th December 2021. Profoundly versed in his field, he expounded upon the "Current Challenges in the Field of Hydrogen Production and Storage," providing a comprehensive overview of the contemporary landscape.
- Mr. Afijith R Nair, a Scientific Officer of great repute from the Indira Gandhi Centre for Atomic Research in Kalpakam, shared his valuable insights on the 22nd of February 2023. His discourse illuminated the "Career Opportunities in

the Department of Atomic Energy," presenting an invaluable guide to aspiring professionals in this specialized field.

- Dr. Sreeprasanth Pulinthanathu Sree, a distinguished faculty member from the Department of Materials Engineering at KU Leuven, Belgium, graced our institution on the 8th of August 2023. With eloquence and expertise, he navigated through the transformative journey from a Chemistry student to a Material Scientist, exploring the uncharted territories of "Nano Materials Research" and pushing the boundaries of scientific inquiry.
  
- In the esteemed setting of an international webinar exploring the nuances of 'Emerging Research Methods in Social and Political Science,' an assembly of erudite scholars illuminated the virtual platform. Dr. Dag Erik Berg, hailing from Molde University College, Norway, captivated the audience with an insightful discourse on the persistent challenges of caste-based atrocities in India's liberal democracy. His comprehensive presentation also delved into the developmental policies for the Scheduled Castes during the postcolonial period, drawing inspiration from his acclaimed work, "Caste and Law: Dalits, Oppression, and Constitutional Democracy in India," published by the Cambridge University Press in 2019. Following suit, Dr. Kristin Plys, Assistant Professor at the University of Toronto, enriched the intellectual terrain with reflections on her book, "Brewing Resistance: Indian Coffee House and the Emergency in Postcolonial India," a publication of the Cambridge University Press in 2020. The symposium further embraced the perspectives of Dr. Samson Bezabeh, a distinguished Fellow from the African Studies Center-Leiden, The Netherlands, who eloquently addressed the intricate dynamics of citizenship and the logic of sovereignty in the African context. The distinguished speaker lineup also featured Shalini Rudra, a public health researcher from the University of Warwick, UK, who shared profound insights into the political economy of health, a domain acutely relevant amid the unfolding Covid-19 pandemic. Concluding the intellectual banquet, Manu P Toms, a renowned business journalist in India, unfolded the new frontiers in the Internet Economy, intertwining socio-political implications with his discourse.

- Against the backdrop of a two-day national seminar themed "Democracy and Dissent in Contemporary India," luminaries in the field illuminated various academic sessions. Notable figures included Mr. Abhilash Mohan, Executive Editor of Mathrubhumi News, Thiruvananthapuram, Dr. S. R. Sanjeev, Head and Assistant Professor of Journalism at Mar Ivanios College, Thiruvananthapuram, Dr. Vidya R, Assistant Professor of Political Science at Madras Christian College, Chennai, Mr. M. R. Manu, Assistant Professor of Political Science in Collegiate Education, Government of Kerala, Mr. Binun Waheed, Secretary of District Panchayat, Kollam, Dr. T. K. Jabir, Assistant Professor (on Contract) at the Institute for Multidisciplinary Programmes in Social Sciences, Mahatma Gandhi University, Kottayam, and Dr. Sreejesh N. P., Assistant Professor of Political Science (on Contract) at Calicut University.
- A thought-provoking webinar titled "New-age Governance in the Time of COVID Pandemic: The Emerging Relevance of UMANG" witnessed Dr. Raj Sony Jalaraj from the Department of Communication at MacEwan University, Edmonton, Canada, presenting the theme with profound insights and contemporary relevance.
- Dr. Jayaseelan Raj, a senior lecturer at the Department of International Development, King's College, London, brought intellectual richness to a lecture on the topic "Conceptualizing State Power." His illustrious career, marked by prestigious international fellowships and extensive publications, includes works such as "Plantation Crisis: Ruptures of Dalit Life in the Indian Tea Belt" and co-authorship of "Ground Down by Growth: Tribe, Caste, Class, and Inequality in 21st Century India," published by Oxford University Press in 2017. Dr. Raj's journey, encompassing positions at the University of Gottingen, Germany, and a post-doctoral fellowship at the London School of Economics and Political Science, underscores his eminence in the scholarly realm.
- The ERUDITE-Scholar-in-Residence Program hosted by the Department of Environmental Sciences of St John's College in collaboration with University of Kerala, at the University of Kerala, also in collaboration with the Kerala State Higher Education Council, brought renowned environmental scientist Prof. Eric J. Wolanski as the Adjunct Professor from James Cook University, Australia. The

program focused on a lecture series, spanning various topics related to estuarine ecohydrology, water circulation, and sediment dynamics.

### *Exemplary Research Endeavors at the Department of Chemistry, St. John's College, Anchal*

- In the annals of academic distinction, the Department of Chemistry at St. John's College, Anchal, etched a formidable legacy by achieving the esteemed status of a Research Center under the University of Kerala in the year 2019. At present, the department proudly boasts a cadre of five erudite research guides and eight dedicated research scholars, comprising three full-time and five part-time researchers.
- Acknowledged as a pivotal science department under the DBT Star and DST-FIST schemes, the department has secured significant financial support to fuel its academic and research pursuits. The benevolence of DST under the FIST scheme, in particular, has facilitated the acquisition of sophisticated instruments, including a UV-Visible spectrophotometer, gas chromatograph, and electrochemical workstation.
- The erudite faculty members of the department, each a seasoned researcher, have made indelible contributions to diverse thrust areas. Their expertise spans heterogeneous catalysis, material science, renewable energy, environmental chemistry, photocatalysis, electrocatalysis, inorganic complexes, and computational chemistry. Further, their acumen has fostered collaborations and linkages with esteemed national and international institutions, such as the National Chemical Laboratory, Pune, and the University of Amsterdam, The Netherlands.
- The department's research pursuits extend beyond borders, successfully undertaking major and minor research projects funded by esteemed bodies like CSIR and UGC. An impressive tally of more than 75 research papers in reputable journals, numerous book chapters, and the securing of three patents bear testament to the department's scholarly prowess.
- In a laudable gesture, the department extends its research facilities and consultancy services to postgraduate students, research scholars, and faculty



members from other colleges and universities. This inclusivity is further exemplified by recognizing three faculty members from St. Gregorios College, Kottarakara, as research guides within the Research Department of Chemistry at St. John's College, Anchal.

- Venturing into the realm of education outreach, the department, in collaboration with the Department of Chemistry, University of Kerala, and the International Association for Hydrogen Energy, initiated a workshop titled 'HEAM Parliamentarian' in 2018. This transformative initiative aims to impart awareness on the significance of renewable energy to school students. Ensuring active participation from students across Kerala, the workshop stands as a beacon for fostering scientific curiosity among the youth.
- The crowning jewels of the department's research endeavors are encapsulated in a compendium of publications from 2018 to 2023. These publications, showcasing the breadth and depth of the department's scholarly pursuits, epitomize the commitment to advancing knowledge in the field of chemistry. Notable contributions include groundbreaking research on solar hydrogen production, heterogeneous catalysts for CO<sub>2</sub> reduction, and diverse investigations into the catalytic, pharmacological, and biological attributes of metal complexes with flavone derivatives. The Department of Chemistry at St. John's College, Anchal, thus stands as a paragon of intellectual rigor, collaborative spirit, and unwavering dedication to advancing the frontiers of scientific knowledge.
- Dr. Ronie Thomas, holding the esteemed position of Assistant Professor in the Department of Political Science and Public Administration at St. John's College, showcased his erudition and scholarly finesse on two distinct occasions. In the august setting of the 8th Annual International Conference of PSSIR (Political Science, Sociology, and International Relations) held in Singapore on the 24th and 25th of September 2018, Dr. Ronie Thomas presented and subsequently published a compelling discourse on the pressing issue of "Stop Violence Against Women: A Critical Estimate on Sensationalism in the Indian Press." His eloquent analysis and profound insights resonated within the scholarly circles, contributing significantly to the discourse on this crucial societal matter.

- Adding another feather to his cap, Dr. Ronie Thomas graced the two-day international seminar organized by the Department of Journalism and Mass Communication at Mar Ivanios College, Thiruvananthapuram. This collaborative effort, undertaken in association with the Kerala State Higher Education Council, Kerala Media Academy, and Don Bosco Arts and Science College, unfolded in 2023. Dr. Thomas presented a thought-provoking paper titled "News Values and Revenue: An Analysis of News Reports and Advertisements." His nuanced exploration delved into the intricate relationship between news values and revenue, shedding light on the evolving dynamics within the realms of journalism and media communication. His participation further enriched the academic landscape, reflecting the department's commitment to intellectual rigor and scholarly excellence.
- Elevating Environmental Scholarship: A Pioneering Research Centre at St. John's College, Anchal. Nurturing academic excellence and championing environmental stewardship, the Postgraduate Department of Environmental Science at St. John's College, Anchal, achieved a significant milestone in 2023. The University of Kerala bestowed official recognition upon the department, designating it as an approved Research Centre (Notification No. 195/2023/UOK, dated: 06.01.2023). This accolade is a testament to the department's unwavering commitment to advancing knowledge and addressing complex environmental challenges.
- Guided by eminent scholars, the department has emerged as a hub of dynamic and ambitious environmental research. The faculty's engagement extends beyond conventional boundaries, encompassing diverse environmental facets. From local concerns to global issues, the department's research initiatives delve into Metagenomics and Bioremediation, Microbiological studies, Biogeochemistry, Phytoremediation, and various dimensions of pollution. With a keen eye on Environmental Toxicology, Remote Sensing & GIS, and Biodiversity Conservation, the department stands at the forefront of comprehensive environmental studies.

### Research Facilities: Catalysts for Innovation

- The department's research facilities transcend conventional norms, fostering an environment conducive to groundbreaking research. Specialized laboratories, an Advanced Research Centre in Environmental Science under the University of Kerala's faculty of applied science and technology, and a Commercial Licensed Water Quality Testing Laboratory affiliated with the Kerala State Pollution Control Board underscore the department's commitment to cutting-edge scholarship.

### Instrumental Facilities: Technological Edge

- The department's instrumental facilities, ranging from Atomic Absorption Spectrophotometer to sophisticated Microscopy and Biotechnology equipment, equip researchers with the tools needed to explore new frontiers in environmental science. These facilities symbolize the department's dedication to providing students and scholars with a technologically advanced platform for their academic pursuits.

### Towards Environmental Solutions: A Collective Vision

- As the department embarks on this scholarly journey, its collective vision goes beyond academic pursuits. It seeks to be a catalyst for positive change, addressing the most pressing environmental issues through innovative research and holistic education. This recognition not only marks a milestone for St. John's College, Anchal, but also signifies a commitment to nurturing the next generation of environmental leaders and fostering a sustainable future.
- The designation of Sri Abraham Mathew, a distinguished gold medallist at the South Asian Federation (SAF) Games and former coach at the Tata Jamshedpur Sport Academy, as the Athletic Coach at St. John's College represents a significant milestone. With a decade of unwavering commitment, he has been instrumental in imparting his invaluable expertise to the aspiring athletes under his tutelage.

Mr. Mathew's tenure has not only been marked by his illustrious sporting achievements but also by his dedication to the development of emerging talents. Through his tenure, he has provided a wealth of experience and has

adeptly shaped the trajectory of numerous sports enthusiasts destined for greatness in the future. His commitment to excellence has not only enhanced the athletic prowess of individuals but has also fostered a culture of discipline, perseverance, and sportsmanship at St. John's College.

### **3. Outcome Phase**

The fruition of the SEAL initiative stands as a testament to the collective dedication of the management, teaching faculty, and students, evolving from its initial stages to become a catalyst for profound academic achievements. What began as a modest undertaking gradually transformed into a rigorous academic pursuit, fostering a culture of excellence and scholarly endeavours.

Under the aegis of the SEAL initiative, the outcomes have been remarkable, forging collaborations with various institutions. A significant number of both undergraduate and postgraduate students, propelled by the impetus of this initiative, have achieved the distinction of securing prestigious fellowships for advanced studies abroad. Simultaneously, others have embarked on educational journeys within revered national institutions, thereby enhancing the department's standing.

The department takes immense pride in the multifaceted success of its students, which extends beyond the confines of conventional academia. This success is manifest in the form of coveted internships, admissions to esteemed universities globally, and commendable achievements in competitive exams. The exceptional placement outcomes over the last five years underscore the unwavering commitment of the department towards ensuring the success and holistic development of its students.

Furthermore, the faculty's active participation in international fellowships adds another layer to the department's global engagement. Their involvement in consultancy services, coupled with a steadfast focus on supporting students preparing for competitive exams, further exemplifies the department's unwavering dedication to fostering a holistic educational environment and promoting collaborative research. In essence, the SEAL initiative has become a driving force behind the department's ascent to academic prominence and global recognition.

- Exemplary Achievements and Noteworthy Initiatives in the Department of Chemistry at St. John's College
- The Department of Chemistry at St. John's College has been a beacon of academic excellence, witnessing an impressive array of accomplishments by its undergraduate and postgraduate students at both national and international levels.
- International Fellowships and Academic Pursuits: Numerous undergraduate and postgraduate students have secured prestigious international fellowships for their postgraduate and doctoral studies abroad, exemplifying the department's commitment to fostering global academic prowess. Additionally, several undergraduate students have pursued advanced studies at nationally renowned institutions such as IISER, Central Universities, and State universities.
- Mr. Vishnu (M.Sc 2017-19): Embarked on an internship at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru.
- Mr. Jishnu Pandamkulangara Kizhakkethil (M.Sc Chemistry 2017-2019): Attained admission for a Ph.D. in chemistry with fellowship at Coventry University, UK, commencing in June 2022.
- Ms. Linsu Sara Abraham (M.Sc Chemistry 2021-23): Secured admission for Ph.D. in chemistry with fellowship at Stony Brook University, US, commencing in January 2023.
- Mr. Muhammed Binaz Salim (B.Sc Chemistry 2017-2020): Successfully enrolled in M.Sc Pharmaceutical Quality by Design at De Montfort University, Leicester, UK, starting in February 2023.
- Ms. Stephy Stephen (M.Sc Chemistry 2020-22): Granted admission with a scholarship for M.Sc in Industrial Pharmaceutics at Queen's University, Belfast, UK, commencing in July 2023.
- Ms. Neethu (M.Sc Chemistry 2018-20): Opted to pursue Master's in Pharmaceutical Chemistry in the UK.
- Ms. Arathi (M.Sc Chemistry 2018-20): Successfully cleared NET and embarked on her Doctorate in Chemistry at Cochin University of Science and Technology (CUSAT).

- National and State Level Achievements: Throughout their academic journey, several students achieved commendable success in various national and state-level competitive exams, showcasing the department's commitment to holistic student development.
- Mr. Jishnu P K (2017-20): Successfully passed the IELTS examination.
- Ms. Arathy (2018-21): Attained CSIR-NET qualification while pursuing her M.Sc.
- Ms. Najuma Noushad and Ms. Akshara Mohan (2020-23): Cleared JAM 2023, alongside success in Kerala university and central university entrance examinations.
- Ms. Dinaka M V (2020-23): Successfully cleared both Kerala and MG university entrance exams.
- Ms. Aparna Vijayakumar: Successfully cleared GATE 2022.
- Ms. Linsu Sara Abraham: Achieved success in the IELTS exam.
- Internships and Research Collaborations: The department takes pride in facilitating internships and research collaborations for both postgraduate and research scholars.
- Ms. Anjana (PG), Mr. Sunesh (Research Scholar), and Mr. Sivaraj (Research Scholar): Completed internships at the National Chemical Laboratory (NCL), Pune in 2020 and 2021, respectively.
- Ms. Anju Mathew (2023): Successfully completed an internship at CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi.
- Ms. Najuma Noushad (B.Sc Chemistry 2020-23): Embarked on the Integrated M.Sc - PhD Programme at the Indian Institute of Science, Education, and Research, Thiruvananthapuram.
- Exemplary Placement Outcomes: Over the past five years, the department has achieved remarkable placement outcomes for its students, both in public and private sectors.
- Support for Competitive Examinations: The department has been actively involved in providing guidance and assistance to students preparing for UGC NET and other competitive examinations during the academic year 2022-2023,

collaborating with the Directorate of Minority Welfare, Govt. of Kerala, and St. John's College, Anchal.

- Ms. Avani (Political Science 2022 – 2025): An illustrious student of St. John's College, Ms. Avani, has been officially recognized as the volunteer extraordinaire for Captain Social Foundation in Kollam.
- District Level Youth Parliament Success: Ms. Avani, representing the Department of Political Science at St. John's College, exhibited her oratory prowess by securing the second position in the District level Youth Parliament program conducted by Nehru Yuva Kendra in Kollam.
- Federal Bank Speak for India Finalist: Distinguished for her eloquence, Ms. Avani, from the Political Science batch of 2022-25, emerged as one of the finalists in the prestigious Federal Bank Speak for India – Kerala edition 2022-23, hosted by Federal Bank.
- District Level Quiz Triumph: Ms. Avani D., a second-year student of the Department of Political Science, clinched the second prize in a District level quiz competition organized by the Kerala State NSS Cell and Kerala Excise Department.
- State and District Level Essay Accolades: Ms. Harda M. L., another second-year student of the Department of Political Science, exhibited her scholarly acumen by securing the third prize in both the State level Essay Writing Competition held by the Kerala State Backward Classes Development Dept and the District Level Quiz Competition in connection with National Voters Day Celebrations in 2023.
- Taluk Level Quiz Victory: Continuing her winning streak, Ms. Harda M. L. secured the first prize in the Taluk Level Quiz Competition held in conjunction with the National Voters Day Celebrations in 2023.
- Essay Competition Recognition: Ms. Harda M. L. added another feather to her cap by securing the second prize in an Essay Competition organized under the auspices of the Indian Institute of Public Administration, Kerala Regional Branch, Thiruvananthapuram.

- Faculty Recognition and International Collaboration: The department proudly acknowledges the accomplishment of one of its esteemed faculty members, Mr. Thomas Mathew, who received the prestigious HRSMC international fellowship from The Netherlands. This fellowship allowed him to conduct groundbreaking research at the University of Amsterdam from 1st February 2022 to 30th April 2022.
- Consultancy Services and Revenue Generation: In addition to academic pursuits, the department extends its expertise through consultancy services, offering research and instrumentation facilities to faculty members and students from nearby colleges and universities. This service, involving the use of advanced equipment such as UV-Visible Spectrophotometer and Electrochemical Workstation, not only enriches collaborative research efforts but also generates revenue for the department.

#### Other achievements

- Arsha Bharath, a distinguished scholar pursuing B.A. in Communicative English, achieved the remarkable feat of being chosen to participate in the prestigious Khelo India University Games 2022 hosted in Uttar Pradesh. Her journey to this pinnacle of athletic achievement was marked by dedicated and rigorous training, conducted under the expert guidance of Sri Abraham Mathew, a luminary in the realm of sports, having clinched the gold medal in the South Asian Federation (SAF) games. The convergence of Arsha's academic prowess with her athletic excellence exemplifies a harmonious blend of intellectual and physical prowess, embodying the spirit of a true scholar-athlete.



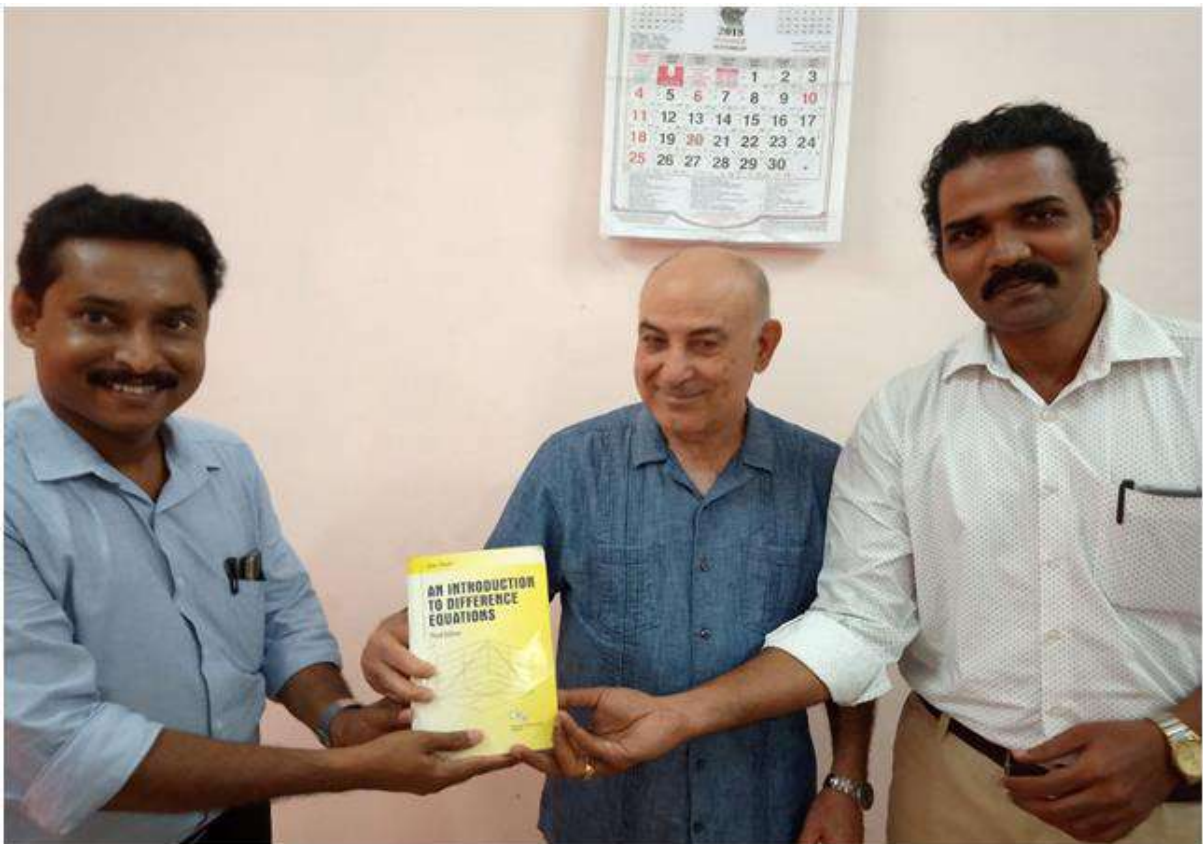
Selected photos of SEAL



Dr. Thomas Mathew at University of Amsterdam



Dr. Saber M Elyadi, Trinity College, USA interacting with faculty of Mathematics





Faculty of Mathematics Department during International Colloquium on Nonlinear Dynamics



Dr Ronie Thomas is presenting a paper at PSSIR-2018 at Singapore



Prof. Michael W. Sonnleitner with the Principal and Faculty of Political Science Department





Dr. Thorvald Sirnes, Professor, University of Bergen, Norway is interacting with Students of St. John's College