



The AURORA

Newsletter of TKM College of Arts and Science, Kollam

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TKM College of Arts and Science Celebrates Diamond Jubilee

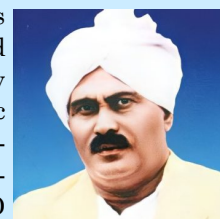
TKM College of Arts and Science, established in 1965 under the TKM College Trust, is celebrating its diamond jubilee, marking 60 years of academic excellence. The vision of the Founder, Janab Thangal Kunju Musaliar, an industrialist, and educationist, was to impart quality education to all sections of society, especially the underprivileged and minority communities. He dedicated a significant share of his business profits to build up TKM institutions. The TKM College Trust, under the chairmanship of Dr. T.K. Shahal Hassan Musaliar, continues the founder's legacy to maintain the excellence of the institutions.

TKM College of Arts and Science was inaugurated when the first stone was laid by Professor Samuel Mathai, the then Vice-Chancellor of Kerala University on 24th June, 1965. Over the past 60 years, the college has moulded and contributed many scholars, scientists, academicians, businessmen, politicians, activists, and thousands of people with high moral values.

The 60-year history of the college is marked by successful strides and meritorious activities. It has established a state-of-the-art multi-disciplinary research block with high-end research equipment under the DST-FIST project and RUSA

2.0 fund of central and state governments. Teachers and research scholars from this institution, sister institutions, and other colleges utilise this facility

for their scientific research. A well-stocked library automated with RFID technology provides access to thousands of



The founder

books and research journals. Laboratories, a science museum, smart classrooms, and other facilities enable students to achieve high-quality education. Students at this institute consistently secure top

ranks in university examinations and are placed in multinational companies through campus placements, globally.

The college gives equal importance to sports and extracurricular activities. Students participate in cultural and arts competitions and secure prizes at university and state levels. A swimming pool with Olympic standards has been built with the financial assistance of the UGC and is open to students.



The Chairman

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Our athletes have won gold, silver and bronze medals in various sports events at the national level, and many are selected to the Kerala University team. All these achievements and uncompromising quality maintenance in academics and infrastructure have helped the institution to secure the highest NAAC A++ grade with a 3.67 CGPA.

The institution declares the year 2025 as the diamond jubilee year to celebrate 60 years of excellence in education and to discuss future changes in higher education. As part of the diamond jubilee celebrations, several educational, social, and cultural programs have been organized. National and international conferences, various workshops, student paper presentations, socio-cultural exhibitions, extension activities, outreach programs, inter-collegiate water polo competitions, and cultural extravaganzas are some of the year-long celebrations that will mark another milestone in the history of TKM College of Arts and Science.

The Aurora

The official Newsletter

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The Aurora: Dawn of New Beginnings



Dear Students, Faculty, and Friends of T.K.M. College of Arts and Science,

As we step into the Diamond Jubilee Year 2025, I am filled with immense pride and hope for the future of our esteemed institution. Celebrating sixty years of academic excellence, innovation, and community engagement, we are reminded of the legacy built by our predecessors and the milestones achieved by our dedicated faculty and students.

The Diamond Jubilee Year is not just a commemoration of our past achievements, but a beacon guiding us towards future academic excellence. It is a time to reflect on our journey and to set ambitious goals for the years to come. Our commitment to fostering a dynamic learning environment, promoting holistic development, and encouraging innovative research remains steadfast.

As we launch the first issue of our newsletter, *The Aurora*, I am excited to share the stories of our students and faculty who continue to make significant contributions in various fields. Let this newsletter serve as a platform for celebrating our success, sharing our aspirations, and strengthening our sense of being a community.

In this milestone year, we honor our past while paving the way for a brighter future. Together, we can achieve greater heights and continue to inspire generations of learners and leaders.

Together, let us strive to uphold the values and traditions of T.K.M. College of Arts and Science, while embracing new opportunities for growth and excellence. With warm regards,

Dr. M.J. Sheeba

Principal, T.K.M. College of Arts and Science

International Seminar at TKM College of Arts and Science

Kollam: An international seminar on "The Infinite Possibilities in Bio-Organic Chemistry" was organized at TKM College of Arts and Science under the leadership of Prof. Christoph J. Fahrni (Georgia Tech University, USA), a leading scientist in the field of chemistry research. The seminar discussed biological systems with potential for disease prevention, including Alzheimer's.

The then college Principal Dr. Chitra Gopinath presided over the event. Program Coordinator Dr. Divesh Kumar welcomed the attendees, and Dr. S. Anas delivered the vote of thanks. Department Head Dr. Sumalakshmi introduced the guest. Dr. Ziyad M.A., Dr. Simi Mol, Dr. Abdul Rahim M.K., Shareef Rahim, Irfana, and Vrinda Raj were among the participants. Teachers, researchers, and students from various colleges attended the seminar..



International Arabic Day Celebration 2024

International Arabic Language Day celebrated on 17 & 18 December, 2024

Kollam: The Departments of Arabic and Islamic History at TKM College of Arts and Science jointly celebrated International Arabic Language Day with a two-day program on December 17-18, 2024. The events included an Arabic Calligraphy Competition for students and a National Seminar on the theme "Importance of Language in Shaping Society and Culture." The program was inaugurated by Dr. Shahal Hassan Musaliar, Chairman of the TKM College Trust, with Principal Dr. M.J. Sheeba presiding over the function.

An invited talk by Dr. Shanil A., Assistant Professor of Arabic at MSM College, Kayamkulam, on "Impact of Arab Cinema on the Global Film Industry," was a highlight of the event. Researchers and



teachers presented papers on the seminar theme, contributing to a rich academic exchange. The Calligraphy Competition winners—Nafila C.P. (S1 Islamic History), Shabna Kabeer (S1 Ecomaths), and Suhana Shajahan (S1 English)—received trophies and certificates from the TKM College Trust Treasurer, Janab T.K. Jalaluddin Musaliar. Librarian Dr. Mohamed Mustafa K., IQAC member Dr. Anzil P.N., and Student Union Chairperson

Thansi Nizar also spoke at the event. Program Coordinator Dr. Najeem E., Head of the Arabic Department, welcomed the gathering, and Program Convener Dr. Finser K. Muhammed, Head of the Islamic History Department, delivered the vote of thanks. In the concluding session on December 18, the Principal distributed certificates to the participants. Smt. Hazeena and Dr. Thanooja Thaha were present.

International Human Rights Day



In connection with International Human Rights Day, the NSS Unit of TKM College of Arts and Science organized an awareness rally on 10 December, 2024. Principal Dr. M. J. Sheeba inaugurated the event. NSS Program Officer Dr. Sulfiya Samad administered the oath. Volunteer Secretaries Abid Khan A. and Aksa Saji led the rally. Dr. Anas S., Dr. P. K. Manoj, and Dr. Mohamed Mustafa, among others, attended the event.

National Seminar on Indian Constitution



Dr. G. Mohan Gopan Inaugurates National Seminar on 'The current state of Indian Constitution'

A National Seminar on 'The Current State of Indian Constitution' was organized by the NSS Unit of TKM College of Arts and Science, on 04.12.2024. The event was inaugurated by Dr. G. Mohan Gopan, Supreme Court advocate and member of the National Judicial Academy Council. Dalit activist and speaker K. Ambujakshan delivered a lecture on 'The Constitution and Affirmative Action.'

Certificates were distributed to the winners of various competitions organized for school and college students as part of the Constitution Day celebrations. T.K.M. College Trust Treasurer T.K. Jalaluddin Musaliar honoured the guests. College Principal Dr. M.J. Sheeba presided over the function. Dr. Muhammad Ali P.K., Feroz Khan, Ruksana Sultana, and Gopika also spoke at the event. NSS Program Officer Dr. Sulfiya Samad delivered the welcome speech, and Volunteer Secretary Aksa Saji proposed the vote of thanks.

PG Students Secure Top Ranks in University Exams

Students of the college have secured top ranks in the postgraduate examinations conducted by Kerala University in 2024. In MSc Biochemistry, Amina S., Serena D., and Abeera C secured the first, second, and third rank respectively. In MSc Chemistry, Aditya J. secured the second rank. Abhirami and Jesna Bose secured the second and the sixth rank respectively in MSc Physics.



Amina S. Secured the First Rank in MSc Biochemistry



Serena D. Secured the Second Rank in MSc Biochemistry



Abeera C. Secured the Third Rank in MSc Biochemistry



Aditya. J Secured the Second Rank in MSc Chemistry



Abhirami secured the Second rank in MSc Physics



Jesni Bose secured the Sixth rank in MSc Physics

Campus Placement

Kollam: In a remarkable achievement, 27 students from TKM College of Arts and Science have secured placements at INTEGRATED, a leading financial company. The selected students hail from various departments, including BCom, BA English, BSc Biochemistry, BSc Chemistry, BSc Physics, and BSc Zoology.

The placement drive, held on the college campus, saw participation from 60 students across different departments. The selection process

was rigorous, involving HR interviews conducted by company officials. The successful candidates demonstrated exceptional skills and potential, earning their spots at INTEGRATED.

This success would not have been possible without the dedicated efforts of the Placement Officer Mr. Nizamudheen Ashiq. Mr. Ashiq meticulously organized the placement drive, coordinating with the company officials and ensuring a smooth and efficient process. His

commitment towards providing students with valuable career opportunities is commendable and greatly appreciated by the college community.

Principal, Dr. M. J. Sheeba expressed her pride in the students' accomplishments and highlighted the commitment of the college towards providing quality education and career opportunities. The placement drive is a testament to the hard work and dedication of both the students and the faculty.

Students Placed in INTEGRATED

YOUR LONG TERM WEALTH PARTNER

1 SNEHA M	B.COM	14 ALISHA SHARAF	BA ENGLISH
2 AJMI S	B.COM	15 DEVIPRIYA A	BA ENGLISH
3 AFIA S NIJAR	B.COM	16 SHAHANA SHAHUL	BA ENGLISH
4 SARIGA RS	B.COM	17 ASIYA JAHAN S	BA ENGLISH
5 NITHIN U	B.COM	18 NAIMA NOUSHAD	BSc BIOCHEMISTRY
6 KRISHNA S R	B.COM	19 MITHUN KUMAR K	BSc CHEMISTRY
7 NEHIDA N	B.COM	20 KRISHNA RAJU	BSc PHYSICS
8 SHABINA S H	B.COM	21 GREESHMA R GOPAN,	BSc PHYSICS
9 ANEENA SHAMSUDHEEN	B.COM	22 HIBA RAJ	BSc PHYSICS
10 YUSRA KHADEEJA	BA ENGLISH	23 DEVISREE D	BSc PHYSICS
11 FATHIMA J	BA ENGLISH	24 FATHIMA A	BSc PHYSICS
12 ABHISHEK M G	BA ENGLISH	25 V ANU RAJEEV,	BSc PHYSICS
13 AMEENA MOL N	BA ENGLISH	26 NISHAD N	BSc PHYSICS
		27 RAHUL PRADEEP	BSc ZOOLOGY

Nature Education Camp

On November 2, 2024, students from the Department of Zoology, Environment Club, and Bhoomithra Sena Club participated in a forest study trip to the Palaruvi-Tenmala region. The event aimed to raise bio-environmental awareness among students. Organized under the auspices of the Kollam Social Forestry Extension Unit, the trip provided a hands-on-learning experience about the region's diverse flora and fauna. Students engaged in various activities and discussions, enhancing their understanding of environmental conservation and the importance of preserving natural habitats.



Sports

ATHLETES TRIUMPH AT KERALA UNIVERSITY INTERCOLLEGIATE CHAMPIONSHIPS

Trivandrum: TKM College of Arts and Science celebrates a series of remarkable achievements at the Kerala University Intercollegiate Championships, with its students securing top honours across events.

Muhammed Basil, a final year BA English student, demonstrated outstanding athleticism by winning the silver medal in the men's 400m race and the bronze medal in the 200m race, with a commendable time of 21.92 seconds.

Nima Elizabeth Roy, a second-year B.Com Finance student secured the silver medal in the women's archery category (Indian Round) by showcasing her exceptional archery skills at the Kerala University Inter-Collegiate Archery Championships.

Adding to the accolades of the college, **Athul Jith A** achieved a double victory, earning the silver medal in the men's triple jump and the bronze medal in another event.

Jomon Joy, a B.Com student, soared to victory in the high jump event, clinching the gold medal with a new meet record of 2.09 meters. This remarkable feat underscores his exceptional talent and dedication.

Vyshna KV secured the silver medal in the Women's Hammer Throw, adding to the impressive medal tally of the college.

The highlight of the championship was the exhilarating 4 X 100m relay event, where the team comprising Achuth Vinayak, Muhammed Basil, Jomon Joy, and Joy K Simon clinched the gold medal with an unmatched performance.

To add to the feather of the college, four athletes—Jomon Joy, Muhammed Basil, Athul Jith, and Joy K Simon—have been selected to the Kerala University Athletics Team. Additionally, Nima Elizabeth Roy has been selected for the Kerala University Archery Team, marking the first time a student from TKM Arts College has achieved this honor.

Muhammed Nabeel also brought pride to the college by clinching the bronze medal in the freestyle wrestling (U/92) category at the Kerala University Intercollegiate Wrestling Competition 2024.

A special mention goes to **Dr. Abdul Rafeeqe**, the sports trainer and assistant professor of physical education, whose invaluable guidance and support have been instrumental in these successes.

These achievements highlight the dedication and talent present at TKM College of Arts and Science, making the institution immensely proud. Congratulations to all the winners for their stellar performances!



Vijnanadeepam State Meeting and Scholarship Distribution



Kollam: The state meeting and scholarship distribution of Vijnanadeepam, a reading community for the visually impaired, was inaugurated at TKM College of Arts and Science by Kundara MLA P.C. Vishnunath. He emphasized the need for government-level encouragement for the intellectual activities of the visually impaired.

The then college Principal Dr. Chitra Gopinath presided over the event. Volunteers who prepared audio books for the visually impaired were honored. The Punyam Little Scholarship for visually impaired students was distributed by the TKM College Trust Treasurer, Jb. Jalaluddin Musaliar. Novelist Akhil P. Dharmmajan distributed prizes to the winners of the reading festival.

The release of audio textbooks for school children was done by writer Dr. Nithya P. Vishwam. The announcement of the Punyam-Vijnanadeepam Scholarship 2025 was made by Raji Menon, founder of Punyam Charitable Organization, an American Malayali women's community. Sajan Hilal Muhammad presented prizes to the winners of the literary competitions organized as part of the reading festival. The Vijnanadeepam English Library Online Catalog was dedicated by College Librarian Dr. Mohamed Musthafa. K. Dr. Jayakumar, the recipient of the KGPS State Award for Best Doctor, was honored. K.N. Yashodharan, Dr. Sulfiya Samad, Shavi Manoj, Laljikumar, Muhammad Roshan, and Deepa Ramachandran spoke at the event. Representatives of voice reading communities and heads of blind schools from across the state participated. Vijnanadeepam Administrator Santosh Karunagappally welcomed the gathering, and Shihab Koodaranji proposed the vote of thanks.

Constitution Day Celebrated

TKM College of Arts and Science, in collaboration with the District Legal Services Authority and Taluk Legal Services Committee, organized a Constitution Awareness Seminar in connection with the Constitution Day on November 20. Adv. Anand Brahmananda presented the topic, emphasizing that the responsibilities and duties of a citizen are as important as the rights and protection assured by the Constitution.



Advocate Anand Brahmananda presenting the topic at the Constitution Seminar

Principal Dr. M. J. Sheeba presided over the event. Kerala University Senate member Firoz Khan, Librarian Dr. Mohamed Mustafa, Para Legal Volunteer Archana V.S., and College Union Chairperson Thansi Nizar also spoke at the event. Dr. Sangeetha P. welcomed the gathering, and Deepa Ramachandran proposed the vote of thanks.

World Diabetes Day Observance 2024

The Department of Biochemistry and the Health Club in collaboration with KIMS Health Hospital, Kollam organized World Diabetes Day Observance on 15 November, 2024. Ms. Jisha Varghese, Head of the Clinical Nutrition and Dietetics Department at KIMS Health Hospital, delivered an expert talk on 'Eat Well, Live Well: Prevent Lifestyle Diseases.' The event was inaugurated by the college Principal, Dr. M. J. Sheeba. Dr. A. Ajinza and Dr. S. Sowmya also spoke on the occasion. Free diabetes screening and a lifestyle disease diagnosis camp were conducted. Biochemistry students led various awareness programs as part of the event.



Dr. Ajinza, Head of the Department of Biochemistry, presided over the function. Dr. Soumya S. delivered the welcome address, and Dr. Ansil P.N. delivered the vote of thanks. Dr. Sumayya S. and Dr. Harishankar were among the attendees.

Workshop on BLDC Technology

On October 15, 2024, the Department of Physics at TKM College of Arts and Science, Kollam, organized a hands-on-training session on Brushless DC (BLDC) technology. The workshop, aimed at S3 UG and S1 PG Physics students, introduced the applications of BLDC motors,



Mr. Safal M. Shafi, Service Head of Panka Fans, demonstrates BLDC fan technology

especially in fan technology. Safal M. Shafi, Sales and Service Head of Panka Fans, led the session, highlighting BLDC motors' higher energy efficiency and performance over conventional ones.

Dr. Manoj P.K., Head of the Physics Department inaugurated the workshop, emphasizing practical exposure to advanced technologies. Students assembled BLDC fans, learning to connect the motor, con-

troller, and other components. The session also covered power and current calculations for BLDC motors. By the end, students gained a solid understanding of BLDC technology, its applications, and its energy-saving benefits. The

event was a success, aligning with the college's commitment to providing valuable hands-on-experience in advanced technologies.

Ideathon to Discover New Entrepreneur

As part of the Ideathon program organized by IEDC to promote entrepreneurship among students, a presentation of new entrepreneurial ideas was held. Meera Haridas, former Branding Officer of Vedanta Limited, evaluated the stu-

dents' projects and provided guidance. Principal Dr. M. J. Sheeba inaugurated the event. IEDC Coordinator Dr. Safir, Ruksana Sultana, and Suryakiran Aleena spoke at the event.



Workshop on Bioinformatics

The Department of Biochemistry at T.K.M. College of Arts and Science, in collaboration with the Science Club, conducted a one-day workshop on "New Trends in Bioinformatics: Computer-Aided Drug Design." The workshop was inaugurated by Dr. Achuthsankar S. Nair, former Head of the Department of Bioinformatics, Kerala University. The workshop, led by renowned bioinformatics scientist Dr. Dileep Kalariakil Vijayan, saw the participation of over a hundred students from various universities in Kerala.

The event was graced by T.K.M. College Trust Treasurer Jalaluddin Musaliar, Principal-in-Charge,



Dr. Achuth Shankar inaugurating the Bioinformatics Workshop

Dr. Bobby T. Edwin, Head of the Department of Biochemistry Dr. Ajinza A., Dr. Hari Shankar H.S., and Dr. Anshad A., delivered speeches.

NATURE EDUCATION TRIP TO ASHTAMUDI LAKE

On November 23, 2024, a nature education trip was organized by the Bhoomithra Sena Club, Environment Club, and Department of Zoology to the Ashtamudi Lake Ramsar Site in Kerala. The journey featured an exciting boating experience and focused on the identification and collection of fauna, bird watching, plankton collection, and fish collection. The students were accompanied by Dr. Rohini Krishna M. V., Programme Convenor and Head of the Department of Zoology, Dr. Mumthas Yahya, Faculty-in-Charge, BMC and Dr. Jasin Rahman V. K., BMC Joint Coordinator.

The trip provided a hands-on-learning experience, deepening students' understanding of ecological systems. It also fostered a sense of environmental stewardship among participants, encouraging them to engage in conservation efforts.



Dr. Anas S. Receives Prestigious Recognition

November 2024: Dr. Anas S., Assistant Professor in the Department of Chemistry at TKM College of Arts and Science, has been elected as an Associate Member of the Royal Society of Chemistry (RSC), with the ID 702005. This significant achievement highlights Dr. Anas's outstanding contributions to the field of chemistry and his dedication to academic excellence. Membership in this esteemed international body underscores his commitment to advancing scientific knowledge and fostering innovation. This recognition not only honours Dr. Anas's expertise but also brings pride to the institution, showcasing the talent and dedication of its faculty members.



In addition to his academic pursuits, Dr. Anas has actively mentored students, fostering the next generation of chemists. His election to the RSC serves as an inspiration to both colleagues and students, encouraging continued excellence in scientific research and education.

LITERATURE UNITES SOCIETY: K.P. RAMANUNNI



TKM College Trust Chairman Dr. T.K. Shahal Hassan Musaliar inaugurating the 'Lumina' Literary Festival



K.P. Ramanunni delivering the keynote address at 'Lumina' Literary Festival

Kollam: Literature bridges different societies and serves as a golden gateway to the minds of fellow beings, said author and Sahitya Akademi Award winner K.P. Ramanunni. He was delivering the keynote address at 'Lumina,' a literary festival organized by the English Department of TKM College of Arts and Science. He emphasized that beyond all diversities, humanity is one, a notion propagated by Sree Narayana Guru and Prophet Muhammad. He highlighted the adaptability of the Malayalam language and the futi-

lity of growth without one's mother tongue. He called for proper consideration of language and humanities in our education system.

The event was inaugurated by Dr. T.K. Shahal Hassan Musaliar, President of TKM College Trust. The then principal Dr. Chitra Gopinath presided over the function. Jb. Jalaluddin Musaliar, Dr. Shafana Shaffi, Sajith Kumar, Sherin Aslam, and Dr. Sulfiya S. Santosh spoke at the event.

K.P. Ramanunni distributed cer-

tificates to the winners of various competitions held as part of the literary festival. Students performed skits, incorporating characters from world literature and cinema.

In the afternoon, a panel discussion titled, 'The Life Vision in the Writings of K.P. Ramanunni' was conducted. The panelists included Dr. Mohamed Musthafa K., Gayathri S., Dr. Sulfiya Samad, Archa Mukundan, G. Jyothilal, Shaheera Naseer, and Niyas S.M.

ONE-DAY CONFERENCE ON CLIMATE RESILIENCE IN WAYANAD

The Department of Zoology at TKM College of Arts and Science, in association with Environmental Club and Kerala Sasthra Sahithya Parishad, organized a conference on "Climate Resilience in the Context of the Wayanad Disaster" on 3 September, 2024. The event featured Mrs. V. Ambili, Deputy Director General of the Geological Survey of India, who delivered a keynote on "Landslides in the Context of Wayanad".



Dr. Chitra Gopinath, the then college principal, presided over the program, which also honored Dr. S. Faizy, a celebrated environmentalist. Dr. Faizy spoke on the "Climate Crisis and Its Impact on an Unequal World Order". Dr. S. Abhilash, Associate Professor at CUSAT, discussed "Climate Change: Challenges and Survival Tactics". The conference brought together experts and enthusiasts to address climate resilience and disaster management.

Senior Research Fellow

Reshma Mariyam Jacob, a full time Research Scholar in Chemistry, has been promoted from Junior Research Fellow



(JRF) to Senior Research Fellow (SRF) on April 3, 2024. Under the guidance of Dr. Anas S., Asst. Professor, Reshma's research has shown significant promise and innovation. She has published many research papers in UGC-CARE/Scopus/Web of Science Indexed Journals, reflecting her commitment to high-quality academic work.

ECO-FRIENDLY POUCH-MAKING, DESIGNING, AND FABRIC PRINTING

The Women's Study Unit, Environmental Club, Department of Zoology, and Bhoomithra Sena Club of TKM College of Arts and Science, in collaboration with Fevicryl Pidilite Industries Ltd, organized an "Eco-Friendly Pouch Making, Designing, and Fabric Printing" workshop for Kudumbashree members in the locality on December 2, 2024, Monday. The session on eco-friendly pouch making, designing, and fabric printing is not merely a workshop but a step towards a sustainable, inclusive, and empowered future. The empowerment of women is a cornerstone of societal progress. Women's upliftment, par-

ticularly through employment-oriented training programs like this, is essential for building a self-reliant community. By equipping women, especially Kudumbashree members, with creative and entrepreneurial skills, we are not just promoting economic independence but also fostering confidence and leadership in every sphere of life.



ESARC-KSSP - SHASTHRA SAMITHI (SCIENCE FORUM) INAUGURATED

The Department of Zoology at TKM College of Arts and Science, in association with the Environmental Club, Bhoomithra Sena Club, and the Environment Study and Research Centre of Kerala Sasthra Sahithya Parishad (ESARC-KSSP), hosted the inauguration of Campus Sastra Samithi at TKM College of Arts and Science, Kollam. The inaugural event, part of the Science Month celebration, was led by Prof. K. Pappootty (Rtd., Professor in Physics, Govt. College, Madapally), who spoke on the theme 'Astrology and Astronomy.' Parishad President K. Prasad, college principal in charge Dr. M. J. Sheeba, and Parishad members Dr. George D'Cruz, Dr. Rohini Krishna, Dr. Mumtaz, and Dr. Jasin Rahman also addressed the gathering, emphasizing the importance of scientific awareness among students.



WORLD SUICIDE PREVENTION DAY 2024

The Jeevani Centre for Students' Well-being, the Department of Zoology, and the Women's Study Unit of TKM College of Arts and Science, in collaboration with the Department of Women and Child Development, Government of Kerala, observed World Suicide Prevention Day on 25 September, 2024.

The event highlighted the importance of mental health awareness and support systems, offering

workshops and seminars to discuss suicide prevention and mental well-being. The initiative aimed to foster a supportive environment, encouraging open discussions about mental health and promoting community resilience.



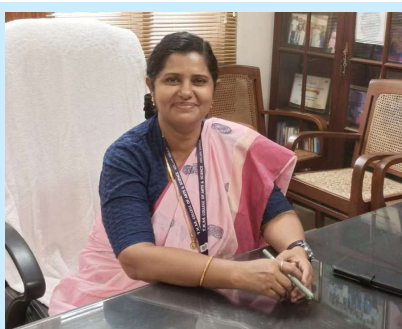
Assignments

- Dr. Rohini Krishna M. V., Head of the Department of Zoology, served as an Evaluator during the District Level Evaluation of the Young Innovators Programme 6.0, organized by the Kerala Development and Innovation Strategic Council in November 2024.
- Dr. Mumthas Y., Assistant Professor in Zoology, served as an Evaluator during the District Level Evaluation of the Young Innovators Programme 6.0, organized by the Kerala Development and Innovation Strategic Council in November 2024.
- Dr. Mumthas Y., Assistant Professor in Zoology, served as a Domain Expert for the "Voice of Stakeholder Connect" in the Young Innovators Programme, organized by the Kerala Development and Innovation Strategic Council, during October 2024.
- Dr. Jasin Rahman V. K., Assistant Professor in Zoology, served as an Evaluator during the District Level Evaluation of the Young Innovators Programme, organized by the Kerala Development and Innovation Strategic Council in November 2024.
- Dr Jasin Rahman V.K served as a reviewer of the Journal of Experimental and Applied Acarology (Springer)- Certificate awarded on 21 October 2024.
- Dr. Anas S., Dept. of Chemistry served as a reviewer for *Environmental Science: Nano* (Royal Society of Chemistry) and *Materials Today Communications* (Elsevier).

Dr. M.J. Sheeba Appointed as Principal

Dr. M.J. Sheeba, Professor in Botany, has been appointed as the new Principal of T.K.M. College of Arts and Science, Kollam w.e.f 15 November, 2024.

With a distinguished career spanning over 23 years in teaching and 16 years in educational administration, Dr. Sheeba brings a wealth of experience and a deep commitment to academic excellence and leadership. Prior to this role, she has served in various capacities including the Chief Superinten-



Resource Person

- Dr. Jasin Rahman V.K., Assistant Professor in the Department of Zoology, functioned as a resource person and conducted a session titled, "Exploring Wildlife Science, Higher Studies, Research, and Careers" in the *Trendz Seminar Series 2024*, organized by Sree Narayana College, Sivagiri, Varakala, on November 20, 2024.
- Dr. Rohini Krishna M. V., Head of the Department of Zoology, served as a Domain Expert for the "Voice of Stakeholder Connect" in the Young Innovators Programme, Kerala Development and Innovation Strategic Council 6.0, during October 2024.
- Dr. Anas S. delivered an engaging session on "Introduction to Nanotechnology" on August 1, 2024, as part of the DBT Skill Vigyan State Partnership Programme at CEPCI Laboratory & Research Institute, Kollam.
- Our research scholars, Gopakumar G., Rekha Chandran P. R., Sharija K. S., and Reshma Mariyam Jacob conducted a practical training session on "Synthesis of Nanoparticles" as part of the DBT Skill Vigyan State Partnership Programme at CEPCI Laboratory & Research Institute, Kollam on August 1, 2024.
- Mr. Adersh V.K., IQAC Coordinator, and former HoD of Mathematics, delivered an invited talk on 'Ramanujan's Legacy in Modern Cryptography' at Mahatma Gandhi College, Trivandrum. The program was organized by the Department of Mathematics, MG College, as part of National Mathematics Day, 2024.
- Dr. Mohamed Mustafa, UGC Librarian served as a resource in a workshop jointly organized by Shasthamkotta K.S.M.D.B. College Library and IQAC on KOHA Library Management Software on March 13, 2024.

dent of University Examinations and Presiding Officer of ICC at the college level. She has also been actively involved in community service and extension activities, demonstrating her dedication to holistic student development. Dr. Sheeba's contributions to the field of research are noteworthy, with 14 paper publications and 23 paper presentations in national and international seminars and conferences. Under her leadership, T.K.M. College is poised to continue its legacy of fostering a dynamic and enriching learning environment for its students. Congratulations to Dr. Sheeba on her new role!

MENTAL HEALTH DAY 2024



The Jeevani Centre for Students' Well-being, the Department of Zoology, and the Women's Study Unit, in association with the Department of Women and Child Development, Government of Kerala, came together to observe Mental Health Day in October 2024. The program featured two sessions. The first-year Zoology students performed a theatre play, and a sticky note board named "Thought Matters" was placed on the college premises for students to post their thoughts. The counsellor Smt. Stephy, gave an address in observance of Mental Health Day.

Soumya S., Assistant Professor of Biochemistry has been awarded a Ph.D. by the University of Kerala for her research titled, "Evaluation of the Effect of Menthol on Diabetic Encephalopathy". Her study was conducted under the guidance of Dr. Mini S. in the Department of Biochemistry, University of Kerala.



ACHIEVEMENTS

Ph.D. Awarded

Ajinja A., Assistant Professor of



Biochemistry at TKM College of Arts and Science has been awarded a Ph.D. by the University of Kerala. Her research titled, "Evaluation of Pharmacological Properties of Vitex altissima Linn", was conducted under the guidance of Prof. Bobby.

Adersh V. K., Assistant Professor in



Mathematics at TKM College of Arts and Science, has been awarded a Ph.D. by the University of Calicut. His thesis, titled, "Some Problems on Modular Forms and Jacobi Forms," was supervised by Dr. M. Manickam, Adjunct Professor at IISER, Bhopal, and conducted at the Kerala School of Mathematics.

Shiny Salam, Head, Dept. of Commerce has been awarded a Ph.D. by the University of Kerala for her research on "Conservation Oriented Forest Ecotourism in Kerala: A Study on Business Potential and Socio-Economic Benefits to the Local Community." Her research was guided by Prof. Dr. Gabriel Simon Thattil, Former Professor and Head, Department of Commerce, and Dean, Faculty of Commerce, University of Kerala.



ECOSYSTEM SERVICES SHARED VALUE ASSESSMENT (ESSVA) SURVEY

As part of ongoing efforts to revise the Integrated Management Plan of the Ashtamudi Ramsar Wetland, the State Wetland Authority Kerala (SWAK) and Wetlands International South Asia (WISA) jointly organized an Ecosystem Service Shared Value Assessment (ESSVA) survey in the local bodies surrounding the wetland. The survey was conducted under the supervision of SWAK and WISA teams on October 15, 2024 with the assistance of students from the Bhoomithrasena Club, Environ-

mental Club, and Department of Zoology, TKM College of Arts and Science, Kollam. The WISA team also organized a training session for the students using the survey app on October 14, 2024, in the college IT room.



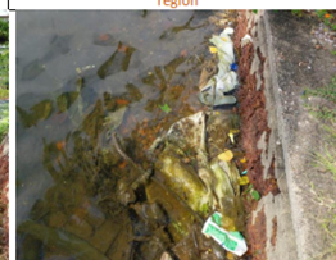
Survey Team with Arun from DoECC



Survey Team with peoples inhabiting Ashtamudi region



House hold wastes are directly discharged into Ashtamudi Lake - Thevally Region



Pollution Load at Ashtamudi Lake - Thevally Region

Faculty Research & Publications

Ajinza, Anaz, Arun A. Rauf, and Bobby T. Edwin. "HPLC analysis and antimicrobial activity of Vitex Altissima leaves extracts." *Plant Science Today* 11, no. 4 (2024). <https://doi.org/10.14719/pst.3649>.

Anas Shereef, Joy, Amala, Mangalaraja R. Viswanathan, Baiju K. Vijayan, Claudia G. Silva, Irfana Basheer, Sreejamol Sugathan, Peer A. Muhammed, and Ananthakumar Solaippan, "Solar photocatalysts: Non-metal (C, N, and S) doped ZnO synthesized through an industrially sustainable in-situ approach for the environmental remediation applications." *RSC Advances* 14 (2024): 21655. <https://doi.org/10.1039/d4ra03492a>.

Anas Shereef, Rekha Chandran, P. R., S. S. Gauri, M. J. Reshma, J. Jiya, R. V. Mangalaraja, and. "CeO₂ quantum dots through assisted sol-gel methods: Syntheses, physicochemical characterization, and antibacterial studies." *Emergent Materials* (2024). <https://doi.org/10.1007/s42247-024-00807-w>.

Anas Shereef, Reshma, M. J., J. Jiya, M. Anshida, J. Amala, and P. Shajesh, "A two-tier synthetic marvel for developing antibacterial, self-cleaning, durable, transparent, and superhydrophobic surfaces using zinc oxide-methyltrimethoxysilane hybrids." *Journal of Environmental Chemical Engineering* 12, no. 2 (2024): 112007. <https://doi.org/10.1016/j.jece.2024.112007>.

Anas Shereef, Sairaj, Vandana, Akshay Sidhi Poovethamkandiyil, Steve J. Hinder, Suresh C. Pillai, and Baiju Kizhakkekilikkoodayil Vijayan. "One pot synthesis of multi-functional B doped g-C₃N₄-praseodymium oxide nanocomposites for colorimetric detection of Hg²⁺ ion and solar photocatalytic removal of toxic water pollutants." *Journal of Water Process Engineering* 62 (2024): 105341. <https://doi.org/10.1016/j.jwpe.2024.105341>.

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Thanseena Bai R., Jeena R., and Aziya Shanavas. "Sustainable finance and use of artificial intelligence in investment decision making." *International Journal of Advanced Research* 12, no. 09 (2024): 1212-1218. <https://doi.org/10.21474/IJAR01/19554>.

Fairoos, C., T. K. Safir, and Deepak Mishra. "Phase-space path integral approach to the kinetics of black hole phase transition in massive gravity." *Annals of Physics*

470 (2024): 169819. <https://doi.org/10.1016/j.aop.2024.169819>.

Manoj, P. K., et al. "Role of material selection and fabrication approach in the performance of sustainable supercapacitors." In *Sustainable Supercapacitors: Next-Generation of Green Energy Storage Devices*. 2024. <https://doi.org/10.1002/9781394237920.ch5>.

Sumayya, A. S. "In vitro chondrogenic potential of marine biocomposite hydrogel construct for cartilage tissue engineering." *Journal of Biomaterials Science, Polymer Edition* (2024). <https://doi.org/10.1080/09205063.2024.2391223>.

Conference Paper Presentation

Sharija K. S., Rekha Chandran P. R., and Anas Shereef. "Terephthalic Acid and Luminol Sensors for Detecting the Phytotoxicity of Engineered TiO₂ Nanoparticles in Asian Rice Plants," paper presented at the International Symposium on Innovative Materials for Energy and Environment (IMEE-2024), organized by CUSAT, Kochi, during December 11-13, 2024.

Reshma Mariyam Jacob and Anas Shereef. "Sustainable and Environment-Friendly Rare Earth (RE) - Doped ZnO Coatings for Health Care and Luminescent Applications," paper presented at the International Symposium on Innovative Materials for Energy and Environment (IMEE-2024), organized by CUSAT, Kochi, on December 11-13, 2024.

Rekhachandran P. R. and Anas Shereef. "Phytotoxic Impact Studies of Cerium Dioxide Quantum Dots on *Oryza sativa* and *Vigna unguiculata* for a Sustainable Environment," paper presented at the International Symposium on Innovative Materials for Energy and Environment (IMEE-2024), organized by CUSAT, Kochi, on December 11-13, 2024.

Dr. Soumya S., Department of Biochemistry, presented a paper titled, "Menthol attenuates hyperglycemia-induced oxidative stress and apoptosis in SHSY5Y neuroblastoma cell line" at the two-day National Conference on Recent Trends in Science and Technology (NCRTS 24), organized by the Department of Chemistry, St. Thomas College, Palai, Kottayam, on October 1, 2024.

Gopakumar G. and Anas Shereef. "Synthesis and Characterization of Reduced Graphene Oxide-Tin (IV) Oxide Hybrids for Gas Sensor Applications," paper presented at the International Symposium on Innovative Materials for Energy and Environment (IMEE-2024), organized by CUSAT, Kochi, on December 11-13, 2024.

Dr. Soumya S., Department of Biochemistry, presented a paper titled "The Role of Menthol in Ayurvedic Diabetes Management: Implications for Global Health Challenge" at the International Conference on Global Issues and Sanskrit Knowledge Systems, organized by the Department of Sanskrit, University of Kerala, on December 17-19, 2024.

Dr. Mohammed Salim of the Department of Physics attended the 68th DAE Symposium on Nuclear Physics (SNP 2024) held at the Indian Institute of Technology, Roorkee, Uttarakhand, during December 7-11, 2024. He presented two studies: "Gas Detectors with Gas Mixture of Isobutane and CO₂: A Combined Experimental and Simulation Study" and "Assessment of Scattering Contribution in Activity Measurements of Co-60 Teletherapy Sources Using Geant4 and Garfield++."

Refresher / Orientation Programme

- Dr. Rohini Krishna M. V. attended the Refresher Course in Interdisciplinary Advances in Biological Sciences conducted by the UGC – Malaviya Mission Teacher Training Centre, University of Calicut, Kerala from 15-10-2024 to 28-10-2024.
- Dr. Mumthas Y., Asst. Professor in Zoology, attended the Online Refresher Course in Women's Studies and Women Empowerment, conducted by the UGC – Malaviya Mission Teacher Training Centre, University of Kerala, Thiruvananthapuram, from December 4, 2024, to December 17, 2024.
- Dr. Anas Shareef, Asst. Professor in Chemistry attended the UGC Sponsored one-week online STC on "Exploring AI: Multidisciplinary Perspectives and Applications," conducted by Malaviya Mission Teacher Training Centre (MMTTC), University of Calicut, from August 7 to 13, 2024.
- Dr. Soumya S, from the Department of Biochemistry, attended a five-day online Faculty Development Program on "AI in Research and Academics," organized by IQAC, St. George's College, Aruvithura, Kottayam, from November 25, 2024, to November 29, 2024.
- Dr. Anas Shareef, Asst. Prof. in Chemistry attended the UGC Sponsored one-week online STC on "Artificial Intelligence and Machine Learning in Teaching," conducted by Malaviya Mission Teacher Training Centre (MMTTC), Aligarh Muslim University, Aligarh, from June 25 to July 1, 2024.
- Dr. Anshad A., Asst. Professor of Physics at TKM College of Arts and Science, participated in the Online Faculty Induction Programme conducted by MMTTC, Kannur University, from November 14 to December 11, 2024.
- Ms. Deepa Ramachandran from the Post Graduate and Research Department of English successfully participated in the UGC-sponsored Faculty Induction Programme, Batch XVIII, conducted online by the UGC-Malaviya Mission Teacher Training Centre at the University of Madras, Chennai, from November 25 to December 21, 2024.
- Dr. Soumya S., from the Department of Biochemistry, attended a one-week National Level Online Faculty Development Program on "Outcome Based Education and Application of Generative AI in Teaching and Research," organized by St. Mary's College (Autonomous), Thrissur, Kerala, in association with the Collegiate Education Department, Government of Kerala, from October 17 to 24, 2024.
- Gayathri S. from the Post Graduate and Research Department of English successfully participated in the Online Refresher Course in Comparative Indian Literature, conducted by the UGC MMTT Training Centre at the University of Kerala, from September 24 to October 7, 2024.

Meet the Author Event with Akhil P. Dharmajan

On November 9, 2024, the college library and NSS Unit jointly organized a "Meet the Author" program featuring Mr. Akhil P. Dharmajan, a young and celebrated novelist. Mr. Dharmajan interacted with students and teachers, discussing his life, characters, writings, films, and future plans. The event provided a unique opportunity for participants to engage with an author who has garnered a significant following on social media. It was a memorable experience, inspiring many and fostering a deeper appreciation for literature within the academic community.



Exciting Achievements at CONSTELLO 6.0

Twenty-six students from S3 B.Com., accompanied by two faculty members, represented TKM College of Arts and Science at 'CONSTELLO 6.0', hosted by the Asian School of Business, Pallipuram, on November 7, 2024. They secured first, second, and runner-up positions in several events, winning a total cash prize of Rs. 25,000. Highlights include first place in Finance Game by Abrar, Mubarak, Arun, and Ajmal, second place by Sajana, Devu, and Ameesha, first place in BGMI by Alshad, Sidharth, Vishnu, and Rinas, and second place in the HR Game by Sreedevi N, Bibitha M, and Parvathy L.

'CONSTELLO 6.0' provided students with remarkable experience and valuable insights. The event saw enthusiastic participation from various management schools and colleges, both aided and unaided. The fest featured a range of activities, including HR Game, Finance Game, Management Game, Business Quiz, Spot Choreography, Ramp Walk, and Treasure Hunt.



National Skill Development Program on Leveraging ChatGPT

The Department of Commerce organized a National Skill Development Program (SDP) titled, "Maximizing Learning Potential: Leveraging ChatGPT for Students" on August 23, 2024 at the College Seminar Hall. The event focused on the transformative potential of AI tools like ChatGPT in enhancing student learning. Renowned experts in artificial intelligence and education shared insights on using AI to support students in various academic aspects, from researching topics to improving writing skills and fostering creativity. The session highlighted practical strategies for integrating ChatGPT into academic workflows, promoting students to maximize their learning potential. The program was a resounding success, emphasizing the importance of AI in modern education.