

(Managed by Travancore Devaswom Board, Thiruvananthapuram)
Govt. Aided College, Affiliated to the University of Kerala
Established in 1995
NAAC Accredited with 'B' Grade



SACSCAN
The Annual Newsletter
(2018-2019)



Sree Ayyappa College
Eramallikkara, Thiruvanvandoor
Chengannur, Alappuzha District - 689109, Kerala
Website: sreeayyappacollege.com

SREE AYYAPPA COLLEGE

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COURSES OFFERED

WG COURSES -

B.Sc. / B.Com (Full Time: 3 Years)

- 1. B.Sc. Computer Science
- 2. B.Sc Electronics
- 3. B.Sc. Biochemistry & Industrial Microbiology
- 4. B.Sc. Mathematics
- 5. B.Com. Commerce with Computer application

PG COURSE

M.Sc. (Full Time: 2 Years)

1. M.Sc. Computer Science

* Hostel Facility available for women students

CENTRE FOR ADULT CONTINUING EDUCTION & EXTENSION

COURSE DETAILS

SL No.	Name of the Course	Qualification	Course Duration	Course Fee
1	Certificate in Library and Information Science	+2 / PDC	6 Months	Rs.7,500
2	Diploma in Computer Application	+2 / PDC	6 Months	Rs.9,000
3	Certificate in Computerised Accounting	+2 / PDC	4 Months	Rs.5,000
4	Certificate in Communicative English & Public Speaking	+2 / PDC	4 Months	Rs.5,000
5	Certificate in Yoga and Meditation	+2 / PDC	3 Months	Rs.6,000

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Towards Silver Jubilee Celebration Year 1995 - 2020.....

The Annual Newsletter SACSCAN 2018-2019

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Eramallikkara, Thiruvanvandoor Chengannur, Alappuzha District 689109, Kerala Website: sreeayyappacollege.com

CONTENTS

Editorial Board	5
Our Management - Travancore Devaswom Board	6
From the Principal's Desk	7
From the Editor's Desk	8
In Memoriam	10
New Beginnings of SAC	11
Achievements	14
List of Ph.D Awardees	15
New Members of SAC Family	16
Representations in University of Kerala, 2018-2019	18
Our Departments	19
Research Activities	24
INFOFEST - 2019	33
Seminars/Workshops/Invited Lectures at SAC	36
Other Academic Activities	45
National Service Scheme (N.S.S)	47
Kerala Flood Response 2018	50
Clubs and Associations	53
Walk With Scholar (WWS) Programme	54
Scholar Support Programme (SSP)	
List of Grants/Funding Received	56
Charity Work - Donation to Diseased Person	
Celebrations	
In Media / Newspaper News	63



EDITORIAL BOARD



Chief Editor

Dr. K. S. Anil Kumar (Principal)

Editor

Dr. R.T. Ananth Kumar (Department of Physics)

Members

Prof. Malini Murali (Department of English)
Dr. Lois Jose (Department of English)

Supporting Team

Prof. Prakash K.C (Convenor, IQAC)
Dr. Suresh S (Secretary, P.T.A)

Dr. Sreedevi S (Head, Department of Commerce)

Dr. Madhavan N (Department of Physical Education)

Dr. Sobha P K (Head, Department of Computer Science)

Prof. Usha Kumari (Head, Department of Electronics)

Dr. Nitha B (Head, Department of Bio-Chemistry and Industrial Microbiology)

Dr. Vidhya N (Head, Department of Mathematics)

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Publisher

The Principal
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OUR MANAGEMENT

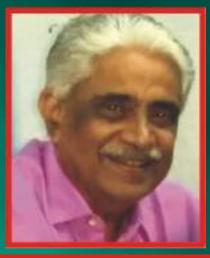
TRAVANCORE DEVASWOM BOARD



Sri. N. Vasu Hon. President



Sri. Adv. N. Vijayakumar Hon. Member



Sri. K.S. Ravi Hon. Member



Smt. S Gayathri Devi Secretary

FROM THE PRINCIPAL'S DESK

It gives me immense pleasure to say that Sree Ayyappa College can rightfully pride itself on the many accolades that have come its way since its inception twenty-five years ago. I believe this Newsletter, SACSCAN, first of its kind in the history of Sree Ayyappa College, can help us archive all events, recognitions and innovative extension activities of the college.

Reflecting the importance the college places on research, we were able to host one national exhibition, two national conferences, nine workshops, eight state level seminars, and four invited lectures in the span of a year. From the national conferences emerged, two edited



books were published by international publishers with ISBN number. Our PG department of Computer Science will soon be upgraded as a research centre and is awaiting the final consent from the University of Kerala. The career guidance cell in the college has been actively organizing and ensuring placements. Our students have excelled in University examinations. Some of them have also secured JRF and are pursuing research in leading institutions of the country.

The college has played a major role in the Varattar rejuvenation project. In spite of hardships we all had to endure during the time of the flood in 2018 - our college campus and nearby surroundings being the some of the most affected areas in Chengannur - we were able to overcome an adversity of such magnitude in a short span of time with the help of our management and well-wishers.

When our NSS unit bagged the best unit award under University of Kerala this year, it was both an acknowledgement and a message that no matter how humble our circumstances, together there is much we can do. Our NSS programme officer was also chosen as the best NSS programme officer of University of Kerala for the year 2018-2019. Adding to the glory, our students made their mark in the Kerala University youth festival, 'Kalolsavam 2019', as well. We have reason to feel proud that our college was granted 'B' grade in the NAAC accreditation in 2017, even more so for urging us on to work harder for the development of our institution.

During the academic year 2018-2019, four major initiatives like Centre for Adult Continuing Education and Extension (CACEE), NPTEL SWAYAM local chapter, FOSS Cell and ASPIC club were started and are functioning to the applaud and appreciation of all stakeholders.

Without the hard work of the faculty, staff, students and the guidance of our visionary management, none of these would have been possible. "If you want to go fast, walk alone, if you want to go far, walk together", may this motto continue to guide us. Come! Let's give our best and make this institution a modern temple of learning through our diligence, devotion and dedication. Wishing you all the best!

Dr. K. S. Anil KumarPrincipal and Chief Editor

FROM THE EDITOR'S DESK



"SACSCAN", the Annual Newsletter of Sree Ayyappa College, Chengannur, is a snapshot of diverse deeds and achievements associated with Sree Ayyappa College for the academic year 2018-2019. The Newsletter, I believe, will serve to reinforce the academic performance, allow increased awareness, improved interaction and integration among the students and faculty members. Moreover, the Newsletter as a medium, can bring true acknowledgements and respect for all achievements to our college. A wide support through the reader's valuable suggestions and comments is expected for SACSCAN, which hopes to be published once a year. I know, this is only a small step for a long journey, and to meet objectives

and achieve progress, we have to cross numerous milestones. This maiden issue of newsletter, I wish and pray sincerely, will inspire all of us for a new beginning enlightened with hope, confidence and faith in each other. Let's walk together on the road ahead!

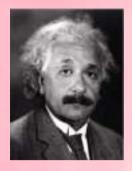
Let me take this opportunity to express gratitude to the team and all those who have contributed towards bringing SACSCAN to the public.

Happy Reading!

Dr. R.T. Ananth Kumar

The Editor

QUOTES OF FAMOUS SCIENTISTS



" Imagination is more important than knowledge "
- Albert Einstein

"Those who can imagine anything, can create the impossible "
- Alan Turing



"The only way to learn it is to do it "
- Archimedes

"A man has always to be busy with his thoughts if anything is to be accomplished "

- Antonie van Leeuwenhoek



In MEMORIAM



Prof. K. Vasudeva Chettiyar Principal (1995-1996)

IT IS HARD TO FIND
DIFFICULT TO PART WITH
AND
IMPOSSIBLE TO FORGET



NEW BEGINNINGS OF SAC

CENTRE FOR ADULT CONTINUING EDUCATION AND EXTENSION

Sree Ayyappa College opened a new centre for CACEE- Centre for Adult Continuing Education and Extension, University of Kerala in 2018 with four new courses. The inauguration of CACEE is held on 3rd December, 2018. The centre was inaugurated by Adv. K Somaprasad M.P. Adv. K.H Babujan, Syndicate Member, Prof. R Indulal, Academic Council Member were present for the function. Dr. Suresh S, Associate Professor, Department of Electronics is the convenor of the programme.





The Courses sanctioned under CACEE are:

- ■Certificate course in Library and Information Science
- Certificate in Yoga and Meditation
- Diploma in computer application
- Certificate in Communicative English and Public Speaking

NPTEL - SWAYAM LOCAL CHAPTER

The IQAC coordinated the effort to start a local chapter of NPTEL SWAYAM in the college, on January 2019, to promote quality education through online courses in various disciplines. Dr. N.Madhavan, Assistant Professor, Department of Physical Education, is the staff Coordinator. Dr. R.T. Ananth Kumar is the single point of contact (SPOC) for NPTEL

ASPIC CLUB

ASPIC (Antibiotic Stewardship and Prevention of infection in Communities) Club was inaugurated in our college on 16th October, 2018. ASPic club - an inititiative by ReAct Asia Pacific is a network created in 2005 and headquartered at the University of Uppsala, Sweden. Pioneered by Prof Otto Cars, ReAct is one of the first international independent networks to articulate the complex nature of antibiotic resistance and its drivers. The main aim of ASPic club is to increase the awareness regarding the adverse side effect of antibiotics among public.

PRIDE OF OUR COLLEGE

Awards

1. Best NSS Unit of University of Kerala

The SAC NSS Unit -52 A bagged the Best Unit Award for 2019 at the University level. The Unit with its 200 volunteers from two batches actively took part in various programs coordinated in accord with national theme. The great initiative took in the Varatar rejuvenation project, along with other environmental related activities like rainwater harvesting and say NO to plastics. Health awareness programs, medical camps, national level participations, intercollegiate programs, women empowerment programs, anti-drug campaigns, society oriented activities, water quality analysis, various charity works, and youth empowerment programs are a few from the activities organized in the 2018-19 academic year.



Dr. K.S. Anil Kumar, Principal, Sree Ayyappa College, receiving the best unit award of NSS, University of Kerala for the year 2018-2019 during the award presentation ceremony held on 20th November, 2019 at Government Women's College, Thiruvananthapuram.

2. Best Programme Officer

The efforts of, Dr. Ganga G as a NSS program officer was also recognized at the University level, and she received the award for the Best Program Officer among the University of Kerala, Thiruvananthapuram.



Dr. Ganga G, NSS Programme Officer, Sree Ayyappa College, receiving the best programme officer award of NSS, University of Kerala for the year 2018-2019 during the award presentation ceremony held on 20th November, 2019 at Government Women's College, Thiruvananthapuram

3. Swatch Bharath Mission District Level Award by Govt of India

The SAC NSS Unit -52A bagged the Best Unit Award for 2019 at the University level. The Unit with its 200 volunteers from two batches actively took part in various programs coordinated in accord with national theme. The great initiative took in the Varatar rejuvenation project, along with other environmental related activities like rainwater harvesting and say NO to plastics. Health awareness programs, medical camps, national level participations, inter-collegiate programs, women empowerment programs, anti-drug campaigns, society oriented activities, water quality analysis, various charity works, and youth empowerment programs are a few from the activities organized in the 2018-19 academic year.

ACHIEVEMENTS

The students of Sree Ayyappa College has participated in various inter-college competitions during the "Kalolsavam 2019", University Youth Festival held at University of Kerala, Thiruvananthapuram from 26-30th March, 2019.



Our students received First place in "Vanjipattu".







Priyanka S R (Reg. No. 65417135005), Department of Computer Science secured 7th **position** in M.Sc. Computer Science Examination 2019, University of Kerala.

Dipin Dileep (Reg. No. 65417135003), Department of Computer Science secured 9th **position** in M.Sc. Computer Science Examination 2019, University of Kerala.



LIST OF Ph.D AWARDEES



Dr. S. Suresh, Associate Professor, Department of Electronics, was awarded Ph.D from University of Kerala, Thiruvananthapuram in January 2019, on the topic entitled "Interfacial Engineering in Dye-sensitized Solar Cells: Effect of Nb₂O₅ Blocking Layer and Silver Nanoparticles", under the guidance of Dr. V. P. Mahadevan Pillai, Vice chancellor, University of Kerala and Co-Guide Dr. M Satyanarayana (Formerly Head of Division and Project Director, VSSC, ISRO, Department of Space, Trivandrum, India. Date of award of the degree: 01.02.2019.

He has published 20 research papers in peer reviewed international journals with 106 citations and an h index of 7. He has filed a patent for his invention in "Methods for performance enhancement in excitonic solar cells by plasmonic blocking layer" No. 201741032795, date of publication (U/S 11A) 29/09/2017. He has received research awards in physical sciences in 102nd Indian Science Congress, Mumbai in 2015, IEEE Photonics Society, Trivandrum chapter in 2015 and from Material Science Research Society of India, Trivandrum in 2017.

Google scholar: https://scholar.google.co.in/citations?user=J_WSwVoAAAAJ&hl=en

Dr. Lois Jose, Assistant Professor (Contract), Department of English, was awarded Ph.D from Pondicherry Central University, Pondicherry in February 2019, on the topic entitled "Time as Operative: A Contextualised Reading of Select Tibetan Folktales" under the guidance of Dr. S. Visaka Devi, Assistant Professor, Department of English, Pondicherry Central University, Pondicherry.

Date of award of the degree: 13 March 2019.



NEW MEMBERS OF SAC FAMILY



Dr. R.T. Ananth Kumar has been appointed as Assistant Professor, Department of Physics on 05th November, 2018. United Arab Emirates University, United Arab Emirates (UAE) had honored him as Post Doctoral Fellow for his two years of research dedication and perseverance. He was awarded with a Ph.D in Physics from Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu.

He has visited countries like Japan, China and United Arab Emirates as a researcher in Physics and for employment. His research area includes Chalchogenide thin films for memory type electrical switching application. He has authored a book entitled

Energy and Environment. To add colourful laurels to his literary crown he had published 17 research articles as International journal publications with a citation of 61 and h-index 5. Among that 12 publications were as first author and his research articles can be glimpsed at https://www.scopus.com/authid/detail.uri?authorId=55958994800

Dr.Sreeraj M has been appointed as Assistant professor, Dept. of Computer Science on 6th June, 2019. He took B.Sc (physics) degree from M.G University in 2002. He pursued his Master studies in the field of Computer Applications in Calicut University and took M.C.A degree in 2006. He started his career as Project Assistant in GIS research project under Kerala State Remote Sensing and Environment Centre, Thiruvananthapuram in 2006. He took PhD degree in Computer Science from Cochin University of Science & Technology in 2013.



He is an active researcher in the field of Natural Language Processing, Human Computer Interaction, Image Processing, Data Mining, Neural Network and GIS. He has undertaken 2 major projects

supported by ISRO and KSCSTE in the field of Natural Language Processing and in the field of Human Computer Interaction. He is guiding several M.Tech and B.Tech students. About 25 research papers have been published by him in the field of Computer Science in reputed journals and in international conferences. He has visited Russia for presenting in International Conferences & Workshops. He has delivered various Invited Talks as part of the ISTE, TEQIP and UGC sponsored workshops and conferences. He is the reviewer of various International Journals, International Conferences and chaired various International Conferences.

Linkedin profile: https://www.linkedin.com/in/sree-raj-b5945827/ Google scholar: https://scholar.google.co.in/citations?user=8j3 KXQAAAAJ&hl=en



Mrs. Sreelekshmi A N joined as Assistant Professor in the Department of Computer Science on 6th June 2019. She completed her M.Tech in "Computer Vision and Image Processing" from Amrita Vishwa Vidyapeetham and did her B.Tech in "Information Technology" from the same institute. Before joining SAC, she has been teaching in various institutions in Kerala for the four years. Her area of specialization is image processing. She has contributed academic books and research papers in this area of computer science.

She has published three academic books with international publishers- namely "A beginner's guide to MATLAB', A Companion

to DBMS and Beginner's guide to IMAGE PROCESSING "and has also been part of editorial committees of various national conferences sponsored by UGC, IETE and KSITM. She has to her credit three edited books. She has also guided research projects of postgraduate students in Computer Science. She has published 19 research papers in the field of Computer Science, in various reputed peer reviewed journals. She has presented 4 papers in International Conferences and 12 papers in National Conferences. The 13 workshops she attended both at National and International levels helped her to stay updated in the field. She has also received the best poster award in a National Conference.

Ms. Malini Murali joined as Assistant Professor in English on 4th September, 2019. A first rank holder and gold medallist for her masters in English Literature from Loyola College, Chennai, she is also a recipient of the Fellowship in International Developmental Exchange Programme in Social Enterprise, based in USA. She qualified UGC NET in June, 2012. Ms. Murali has submitted her Ph.D thesis, an annotated verse translation of Tunchath Ezhutachan's "Adhyatma Ramayanam Kilipattu" at the English and Foreign Languages University, Hyderabad and is awaiting her viva voce. Her translation of Ezhutachan is in the process of being turned into a book.



Ms. Malini Murali is an active member of the Critical Humanities research Group at EFLU, an international forum concerned with the reorientation of teaching and research in Humanities from the Indian context. She was an invited participant for the Future of Humanities and Anthropological Difference Workshop at Cornell University, USA for her work on translation. She was also an invited participant at the International Indology Graduate Research Symposium at Leiden University, Netherlands, for her work on 'Puranas'. Her research interests include questions of translation, literary/reflective traditions of Kerala, Sanskrit traditions and responses to them in Malayalam, poetry and classics. She has two publications in reputed journals. Two of her articles were featured in the Indian Express as well. Ms. Murali is also a Reviewer for the international journal "Language, Literature and Interdisciplinary Studies" (LLIDS). She has previously worked with Oxford University Press, Chennai and has taught in Amrita School of Arts and Sciences, Kochi and the National Institute of Technology, Calicut.

SREE AYYAPPA COLLEGE, Eramallikkara, Thiruvanvandoor, Chengannur, Alappuzha District-689107

REPRESENTATIONS IN UNIVERSITY OF KERALA, 2018-2019

SENATE

Dr. K. S. Anil Kumar , Principal	University of Kerala, Thiruvananthapuram
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ACADEMIC COUNCIL 2018-2019

Name	Department	University
Dr. S. Suresh	Electronics	University of Kerala, Thiruvananthapuram

Name	UG/PG	Department	University
Prof. Usha Kumari	UG	Electronics	University of Kerala
Prof. K.C. Prakash	UG & PG	Electronics	University of Kerala
Dr. S. Suresh	UG & PG	Electronics	University of Kerala
Prof. G.P. Deepu	UG & PG	Electronics	University of Kerala
Dr. Sreedevi S	PG	Computer Science	University of Kerala
Prof. B.J. Jisha Nair	PG	Computer Science	University of Kerala
Dr. Nitha B	UG	Bio-Chemistry	University of Kerala
Dr. Ganga G	UG	Bio-Chemistry	University of Kerala
Dr. K.R. Chithra	UG	Bio-Chemistry	University of Kerala
Dr. Rejiya C. S	UG & PG	Bio-Chemistry	Mahatma Gandhi
			University, Kottayam

OUR DEPARTMENTS

Department of Computer Science

The Department of Computer Science established in the year 1995 is one of the earliest aided computer science departments under the University of Kerala. The department offers both B.Sc. and M.Sc. degree in computer Science. Currently, it has 10 faculty members, 1 technical staff and nearly 100 students are working towards their Bachelor's and Master's degrees. The department also ensures its active participation in selected off-campus programs.



The department attracts high quality students from all over the State and has an impressive placement record. Most of the graduates choose to join some of the best institutions of higher learning around the world, whereas some prefer to gain a few years of work experience before deciding their next course of action. Still some others choose to chase their



dream taking a path that is less travelled, the social welfare route or liberal arts based vocations. One of the strengths of the department is its strong entrepreneurial culture and many students have successfully involved themselves in creating entrepreneurial ventures, some of which have gone fully commercial within a short span of time. Students showing entrepreneurial culture benefit mostly from the on-campus Technology Business Incubator provided by the Institute. However, some choose to create virtual

organizations to keep the costs low and later move onto the regular business models.

The department could attract unrestricted research grants as well as competitive research grants from several sources funding agencies like IETE, Cochin Centre, Kerala State IT Mission (KSITM), TVM, Kerala State Science Technology and Environment (KSCSTE), TVM. Recently, the curriculum has been benchmarked by University of Kerala with higher learning around the world and currently we are carefully reviewing the impact of these consequent changes with a view to make our programs even more strong and competitive.

Proposed Research Centre

The Department of Computer Science, Sree Ayyappa College, has proposed to the University of Kerala to recognize our PG department of computer science as a Research Centre. Recently, the University has decided to conduct an inspection by an expert team for the



final consideration of the proposal. The technical collaboration of our proposed research centre is with IC FOSS (International Centre for Free and Open Source Software). The collaboration is fulfilled for a successful contribution in the area of FOSS research in academic and for the community.

Research Guide

- a. Dr. K.S. Anil Kumar
- b. Dr. Sreedevi S

Facilities

- 1. Research Lab
- 2. Research Library



Department of Electronics

The Department of Electronics (B.Sc.) started in the year 1995 has earned a very high reputation throughout the State. The Department is striving to become a centre of excellence in the field of Microelectronics, VLSI, and related emerging areas by producing professionals who excel in Innovation, Entrepreneurship, Creativity and Management. The Department of Electronics has joined with the Tata Power Solar in the flood relief camp at Sree





Ayyappa College to light the campus, utilizing the Department's own solar panels.

One day workshop on "Boundless possibilities of Arduino" was conducted on 31st January 2019, by the Electronics Association, in which Sri. Prasanth P.P (CUSAT) was the chief resource person.

Department of Mathematics

The department of Mathematics established in 1995 is offering the degree of B.Sc. in Mathematics. The department offers opportunities for the education in a wide spectrum of areas

in Mathematics such as: Algebra and Analysis, Differential Equations and their applications, Discrete Mathematics and applications, Mathematical Physics, Statistics and Operations Research, Mathematical Modeling etc. The department has strongly motivated faculty with diverse specialization in Mathematical sciences providing a potential for pursuing research in basic sciences as well as in interdisciplinary areas of science, engineering and technology. The department is committed



to train the students to make them motivated and dedicated engineers and scientists.

Department of Biochemistry and Industrial Micro Biology

The Department of B.Sc in Biochemistry and Industrial Micro Biology has started in the year 1999. Since then the Department is engaged in providing quality education to the students in the field of modern biology by the adequate teaching cum research input. Currently the department holds five permanent faculty members and almost eighty students are registered for the degree.





The course is inter-disciplinary in nature, blending both Biochemistry and Microbiology. Microbiology has a vast array of applications in most of the fields such as health, hygiene, agriculture, food, quality control, drug discovery etc. Biochemistry has a significant aspect in the diagnosis of many life threatening diseases and solutions for their cure. Its

Department of Commerce with Computer Applications

The degree of B.Com in Commerce with Computer Applications has begun in the year 2013. The Department has been alert and alive to the changes in the macro-environment

according to the curriculum. The vision of the department is to provide advance management knowledge to the students and to develop impactful leaders. Subjects like management, economics, accounting financial, cost and management, computer application, auditing and marking are studied with in-depth knowledge. The course offers job opportunities in areas such as accounting, banking, financial services, securities market, advertising sector, insurance sector and many more. The department also organizes various invited talks, career guidance classes,



workshops, seminars etc., to support students in association with Commerce Association.

Department of Physical Education

As an integral part of curriculum, the department of physical education tries its best to create awareness about the importance of physical activities in our day-to-day life. The department offers an open course titled 'Health and Physical Education' with an aim to create consciousness among the students towards health, fitness and wellness and in developing and maintaining a healthy life style apart from the number of opportunities it provide for developing physical and mental health. We also conduct intercollegiate tournaments and take responsibilities to provide opportunities for our students to participate in tournaments conducted by other colleges.



LIBRARY

The Library at Sree Ayyappa College is well-equipped with books of English, Malayalam, Computer Science, Hindi, Electronics, Commerce, Mathematics, Bio-Chemistry, Chemistry, Physics, Microbiology, Commerce, General Awareness etc. In total, nearly 10 journals are accessed in the collage library. The INFLIBNET facility is made available for downloading the journals. The journals such as IETE Technical Review, IETE Journal of Research, Journal of Science, Technology & Management, IETE journal of Education, Journal of Literature etc. are available.

RESEARCH ACTIVITIES

LIST OF BOOKS PUBLISHED IN 2018-2019

Sl. No.	Name of the Authors/Faculty	Topic	Publisher	ISBN
1.	Dr. Anil Kumar.K.S (Principal), Prof. Usha Kumari.K.L (Dept. of Electronics), Dr. Madhavan.N (Dept. of Physical Education), Dr. Nitha.B (Dept. of Biochemistry and Industrial Micro Biology), Prof. Sreelekshmi. A N (Dept. of Computer Science)	Recent Trends in Biomedical Science and Informatics	GRENZE Scientific Society, 2018, Trivandrum	978-81- 936117-3- 9
2.	Dr. Anil Kumar K S (Principal) Dr. Sobha P K (Dept. of Computer Science) Ms. Sreelekshmi A N (Dept. of Computer Science) Ms. Reshma-Dharman (Dept. of Computer Science)	Emerging Technologies in Computer Science.	GRENZE Scientific Society, 2019, Trivandrum	978-81- 936117-7- 7
3.	Dr. Anil Kumar K S (Principal) Dr. Suresh S (Dept. of Electronics) Dr. Nitha B (Dept. of Biochemistry and Industrial Micro Biology) Dr. Ananth Kumar R T (Dept. of Physics)	Recent Trends in Energy & Environment and Climate change Department, Govt of Kerala	GRENZE Scientific Society, 2019, Trivandrum	978-81- 936117-9- 1

INVITED LECTURES IN 2018-2019

Sl.	Name of the	Conference/Seminar	Institution	Date
No.	Faculty and			
	Department			
1.	Dr. S. Suresh	Photovoltaics- Dye	Govt College,	7-8 November
	(Electronics)	sensitized solar cells	Mananthavadi	2018
2.	Dr. Sreedevi S,	International	Sri Sarada	
	(Computer Science)	Conference on Recent	College for	23 February
		Trends in Advanced	Women,	2019
		Computing and its	Tirunelveli, Tamil	
		Applications	Nadu	
3.	Prof. Prakash K.C	Strategies for framing	W.M.O Arts and	
	(Electronics)	a syllabus in	Science College,	21 May 2019
		Electronics	Muttil, Wayanad	

LIST OF PUBLISHED INTERNATIONAL JOURNALS IN 2018-2019

SI. No.	Name of the Faculty and Department	Торіс	Journal, Volume,Year, Page
1.	Prof. K.C. Prakash (Electronics)	Printed Circularly Polarised Asymmetric Ultra-Wideband Antenna	Progress In Electromagnetics Research M, Vol. 74, 2018, 179–189
2.	Dr. S. Suresh (Electronics)	Plasmonic Ag@Nb ₂ O ₅ surface passivation layer on quantum confined SnO2 films for high current dye-sensitized solar cell applications	Electrochimica Acta, 289 (2018) 1-12
3.	Dr. S. Suresh (Electronics)	Silver nanoparticles- incorporated Nb ₂ O ₅ surface passivation layer for efficiency enhancement in dye- sensitized solar cells	J. Colloid Interface Sci. 524 (2018)
4.	Dr. S. Suresh (Electronics)	Ag@Nb ₂ O ₅ plasmonic blocking layer for higher efficiency dye-sensitized solar cells	Dalton Trans. 47 (2018) 4685e4700
5.	Dr. S. Suresh (Electronics)	Tailoring the properties of zinc oxide films by incorporating gold nanoparticles using RF magnetron sputtering	Applied Physics A, 124 (12), 815, 2018
6.	Dr. S. Suresh (Electronics)	Volume holographic gratings in acrylamide based photopolymer to provide selective light as an added input for improving the performance of dyesensitized solar cells	Current Science, (00113891) 114 (11), 2018
7.	Dr. S. Suresh (Electronics)	Raman spectroscopic and fractal analysis of blood samples of dengue fever patients	Bio-medical materials and engineering, 1-11, 2018

SI. No.	Name of the Faculty and	Topic	Journal, Volume, Year, Page
110.	Department		
8.	Dr. S. Sandeep, (Chemistry)	An eco-friendly molecular imprinting technique for the selective recognition and controlled release of bovine serum albumin	Journal of Chemical Technology & amp; Biotechnology, 93 (2018) 3502
9.	Dr. S. Suresh (Electronics)	Luminescent Ta doped WO3 thin zfilms as a probable candidate for excitonic solar cell applications	Applied Surface Science, 466, 289-300, 2019
10.	Dr. S. Suresh (Electronics)	Effect of silver incorporation on the structural and morphological characteristics of RF sputtered indium oxide films	Materials Science and Engineering, 499, 012001- 12007, 2019
11.	Dr. Sreedevi S, (Computer Science)	Fuzzy Soft Set Approach for Classifying Malignant and Benign Breast Tumors	International Journal of Advance Intelligence Paradigm(IJAIP), Inderscience Publishers, DOI: 10.1504/IJAIP.2018.10018607
12.	Dr. Sreedevi S, (Computer Science)	A new and efficient approach for the removal of high density impulse noise in mammogram	International Journal of Computer Aided Engineering and Technology (IJCAET). Indersience Publishers, DOI: 10.1504/IJCAET.2020.100181 60
13.	Dr. R.T. Ananth Kumar (Physics)	Role of thickness and annealing temperature on the structural ordering in vacuum evaporated antimony selenide thin films	Energy Sources, Part A: Recovery, Utilization and Environmental Effects, (2019) DOI: 10.1080/15567036.2019 .1654566
14.	Dr. K. S Anil Kumar (Principal)	Secure I-Voting system with modified voting and verification protocol	Lecture notes in electrical engineering, Springer ISSN: 1876-1100
15.	Dr. K. S Anil Kumar (Principal)	Security and performance enhancement of fingerprint biometric template using symmetric hashing	Computers and security, Elsevier, ISSN: 0167-4048 (Accepted)

LIST OF CONFRENCE PRESENTATIONS IN 2018-2019

Sl.	Name of the	Topic	Conference/Seminar	Institution
No.	Faculty and	_	with date	
1	Department	ECC C. 1.i.	T. de la constant	Call and C
1.	Dr. K.S. Anil Kumar (Principal)	Effect of white noise on the structural properties of networks arose from time series.	International conference on control, communication and computing, 05-07 July, 2018	College of Engineering, Thiruvananthapur am
2.	Dr. Nitha B (Dept. of Biochemistry and Industrial Micro Biology)	Evaluation of anti- inflammatory activity of ten different species of oyster mushroom- Pleurotus	National Seminar on Emerging challenges in biodiversity conservation with special reference to recent trends in exotoxicology, 26-27, February 2018	MSM, college, Kayamkulam
3.	Dr. Nitha B (Dept. of Biochemistry and Industrial Micro Biology)	Detection and isolation of water pollution indicators and other multidrug resistant pathogenic bacteria from different locations of Pampa river during on and off seasons of pilgrimage,	National Seminar on Introspecting Environmental issues in India-Problems and Solutions, 14-16 february 2018	Department of History, University of Kerala
4.	Dr. S. Sandeep, (Chemistry)	Synthesis and characterization of pH-responsive biomimetic networks and its application for the controlled release of bovine serum albumin as a model drug.	National Seminar on Frontline approaches in material science & computational chemistry, March 14- 16, 2018	S.N.College for Women, Kollam
5.	Dr. Sreedevi S, (Computer Science)	ANFIS Based Classifiation System for Leukemia	National Conference on Emerging Technologies in Computer Science – NCETCS 2019, 1st & 2nd Feb., 2019	Sree Ayyappa College, Chengannur
6.	Dr. Sreedevi S, (Computer Science)	AN Effective Solution for Reducing the NetworkTraffic within an Inter Data Center Network	International Conference on Recent Trends in Advanced Computing and its Applications – ICRTACA 2019	Sri Sarada College for Women, Tirunelveli, Tamil Nadu
7.	Dr. Sreedevi S, (Computer Science)	Breast Cancer Classification using various Back Propagation Algorithms	National Conference on Emerging Technologies in Computer Science – NCETCS, 1st & 2nd Feb., 2019	Sree Ayyappa College, Chengannur

		1	1	
8.	Dr. Sreedevi S,	ANFIS Based	National Conference	Sree Ayyappa
	(Computer	Classifiation	on Emerging	College,
	Science)	System for	Technologies in	Chengannur
		Leukemia	Computer Science –	
			NCETCS, 1 st & 2 nd	
			Feb., 2019	
9.	Dr. Sreedevi S,	A Fully	International	Sri Sarada College
	(Computer	Automated	Conference on	for Women,
	Science)	Classification	Recent Trends in	Tirunelveli, Tamil
		System for	Advanced	Nadu
		Leukemia	Computing and its	
			Applications –	
			ICRTACA 2019	
10.	Dr. Sreedevi S,	Modifing Data	National Conference	Sri Sarada College
	(Computer	Security in Cloud	on Issues and	for Women,
	Science)	Computing	Initiatives Towards	Tirunelveli, Tamil
		Through Multi	Vital Viable and	Nadu
		Cloud Based	Value Bound	
		Techniques	Quality Higher	
			Education, 2019	
11.	Prof. K.C. Prakash	Circularly	National Conference	Sree Ayyappa
	(Computer	Polarised UWB	on Energy and	College,
	Science)	antenna for RF	Environment, Feb.	Chengannur
		Power Harvesting	15 & 16, 2019	
		Applications		
12.	Dr. R.T. Ananth	Investigation of	National Conference	Sree Ayyappa
	Kumar (Physics)	photoresponse on	on Energy and	College,
		GaSb thin films	Environment, Feb.	Chengannur
		for photodetectors	15 & 16, 2019	
13.	Mr. Praveen R,	International trade	National Conference	Sree Ayyappa
	(Commerce)	and global	on Energy and	College,
		environment	Environment, Feb.	Chengannur
			15 & 16, 2019	
14.	Mr. Praveen R,	Role of business	National Conference	Sree Ayyappa
	(Commerce)	in green	on Energy and	College,
		marketing	Environment, Feb.	Chengannur
			15 & 16, 2019	
15.	Ms. Surjimol R	CLOUDSIM: An	National Conference	Sree Ayyappa
	(Computer	Energy Efficient	on Energy and	College,
	Science)	Allocation	Environment, Feb.	Chengannur
		Strategy in Green	15 & 16, 2019	
		Cloud		~ .
16.	Ms. Karthika,	Green cloud	National Conference	Sree Ayyappa
	(Computer	computing for	on Energy and	College,
	Science)	improved power	Environment, Feb.	Chengannur
		efficiency	15 & 16, 2019	

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	17.	Dr. Ganga G	Isolation of	National	Sree Ayyappa
		(Department of	endophytes from	Conference on	College,
		Biochemistry and	medically	Energy and	Chengannur
		Industrial Micro	important plants	Environment, Feb.	
		Biology)	with therapeutic	15 & 16, 2019	
			properties		
			without		
			overexploitation		
			of nature.		
1	18.	Ms. Sreelekshmi	An efficient way	National	Sree Ayyappa
		A N, (Computer	of using big data	Conference on	College,
		Science)	to store geo-	Energy and	Chengannur
			informatics data	Environment, Feb.	-
				15 & 16, 2019	
1	19.	Dr. Nitha B	Morchella	National	Sree Ayyappa
		(Dept. of	esculenta, a	Conference on	College,
		Biochemistry and	source of natural	Energy and	Chengannur
		Industrial Micro	biopharmaceutic	Environment, Feb.	
		Biology)	al – fight against	15 & 16, 2019	
		Liology)	DMBA induced	15 & 10, 2017	
			skin pappilloma		
			in mice, Recent		
			Trends in		
			Biomedical		
			Science and		
-	200	D. Mid. D	Informatics	NI-4' 1	C A
4	20.	Dr. Nitha B	Embelia	National	Sree Ayyappa
		(Dept. of	Tsjeriam Cottam	Conference on	College,
		Biochemistry and	a Potential	Energy and	Chengannur
		Industrial Micro	Source of	Environment, Feb.	
		Biology)	antifungal	15 & 16, 2019	
			Phytochemicals,		
			Recent Trends in		
			Biomedical		
			Science and		
L			Informatics		
2	21.	Dr. Nitha B	Detection of	Kerala Science	Fathima College,
		(Dept. of	Water Pollution	Congress, 1-2,	Kollam
		Biochemistry and	Indicators and	February 2019	
		Industrial Micro	other Multidrug		
		Biology)	Resistant		
			Pathogenic		
			Bacteria in the		
			drinking water		
			sources of		
			Chengannur		
			after flood- A		
			Major Threat		
1	22.	Dr. K.S. Anil	Data hiding	National	Sree Ayyappa
	·	Kumar	techniques in	conference on	College,
		(Principal)	medical images:	emerging	Chengannur
		(1 Tillelpai)		technologies in	Chengamiui
			survey.		
				computer science,	
				1 st & 2 nd Feb.,	
L				2019	

PARTICIPATION IN CONFERENCES/WORKSHOP OUTSIDE COLLEGE IN 2018-2019

Sl. No.	Name of the	Programme name	Institution with date
110.	Faculty and Department		
1.	Dr. Lois Jose	International Conference	Bishop Moore College,
		on Marxism	Mavelikara, January 7-9, 2019
2.	Dr. S. Sandeep,	Induction Training	Indian Institute of Technology,
	(Chemistry)	Workshop for Teachers,	Madras, Chennai, February,
		FLAIR programme	11-20, 2019
3.	Dr. N. Madhavan	UGC Settlement Meeting	St. Joseph's College
	(Physical	& Workshop on PFMS-	(Autonomous), Thrissur,
	Education)	EAT Module	Kerala, 3 rd June, 2019
4.	Dr. R.T. Ananth	UGC Settlement Meeting	St. Joseph's College
	Kumar (Physics)	& Workshop on PFMS-	(Autonomous), Thrissur,
		EAT Module	Kerala, 3 rd June, 2019
5.	Dr. R.T. Ananth	NPTEL workshop for	Indian Institute of Technology,
	Kumar (Physics)	SPOCs (South Zone)	Madras, Chennai, 26 th July,
			2019

NCETCS-2019

National Conference on Emerging Technologies in Computer Science

The PG Department of Computer Science organized a two days National Conference on Emerging Technologies in Computer Science on 8th and 9th February, 2019. programme was inaugurated by **Dr. Raju G**, Professor Department of Computer Science and Engineering, Christ Deemed University, Bangalore. Keynote address was delivered by Dr. M. V. Rajesh, Asso. Professor & Head, Dept of ECE, College of Engineering, Poonjar. This conference mainly focused on some of the utmost significant cutting edge technologies and have discussed how a degree in computer science or a closely related discipline can lead to an exciting career in a groundbreaking field. This conference was an ideal platform for the experts and the young researchers to dispense their research findings in the area of recent in innovative technologies and its application in industry. A total number of 110 participants were registered for the conference.

The featured speaker Dr. R Gopika Kumari, focussed on the multiple modalities of signal processing. Dr. G. Gopakumar (Asst. Prof. in Department of Computer Science, Amritapuri Campus, Amrita Vishwa Vidyapeetham University) presented an invited talk on "Machine learning for computer vision". Dr. Divya Sindhu Lekha(Postdoctoral fellow, CUSAT) gave a formal introduction to the discipline of Network Science, along with emphasis to the state-of-art research. The session was about how to analyse and predict the underlying network structures which requires thorough research. The invited speaker Dr. Sabarish .K explained about the upcoming scope of IoT. The Internet of Things (loT) envisages a dynamic network of sensors and disparate nodes where physical objects can interact with each other sense the environment and potentially act on it. Dr. S. Sivakumar (Professor & Head, Department of Computer Science, Cardamom Planter's Association College) delivered an invited talk on "Trends in medical image processing". The main aim of the session was to create awareness to the young budding researchers to develop an algorithm which supports efficiently in detecting the drusen(node) from the fundus image using image processing techniques and of course speaker contributed his maximum fulfilling the aim. Dr. S. Sivakumar presented the NCETCS Best paper award to Ms. Divya P R from Sree Buddha College of Engineering on the topic "A Survey on Different Image Forgery Detection Methods".





The NCETCS-2019 inaugurated by Dr. Raju G, Professor Department of Dr. M. V. Rajesh, Asso. Professor & Head, Dept of ECE, College of Computer Science and Engineering, Christ Deemed University, Bangalore.

Engineering, Poonjar delivering keynote address



Dr. R.Gopika Kumari (Professor, School of Engineering, CUSAT & Chairperson, IETE) chairing the technical session



Dr. G. Gopakumar (Asst. Prof. in Department of Computer Science, Amritapuri Campus, Amrita Vishwa Vidyapeetham University) speaking on "Machine Learning for Computer Vision"



Dr. Divya Sindhu Lekha(Postdoctoral fellow, CUSAT) on "COMPLEX Networks: Underlying Patterns In Every System" in Academic session III



Dr. Sabarish .K (Head, E-Governance, Kerala State IT Mission) delivering a talk on "Emerging trends in IOT"



Video screening of KSITM mKeralam mobile app



Conference CD publication by Dr. S. Sivakumar in the valedictory session



Dr. S. Sivakumar presenting the NCETCS Best paper award to Ms. Divya P R from Sree Buddha College of Engineering on the topic "A Survey on Different Image Forgery Detection Methods"

INFOFEST 2019

INFOFEST is the annual academic fiesta of SAC. This year we organized a Two-Day National Seminar on Energy and Environment, and an exhibition 'The Energerium' on 15th and 16th February 2019.

NATIONAL CONFERRENCE ON ENERGY AND ENVIRONMENT (NCEE 2019)



Energy and Environment is identified as the top ten problems to be faced by the human



race for the next 50 years. Taking this fact into consideration, Sree Ayyappa College, organized two-day national conference in association with department of Environment and Climate Change, Government of Kerala on Energy and Environment. Prof. Sabu Thomas, the Hon'ble Vice Chancellor, Mahatma Gandhi University inaugurated INFOFEST-2019.

The conference aimed at natural scientists, technologists, social science

and policy communities covered the direct and indirect environmental impacts of energy acquisition, transport, production and use. The intended objective, to cover the social, economic and political dimensions of such issues at local, national and international level, the technological and scientific aspects of energy, and the environment questions including energy conservation and the interaction of energy forms, and systems with the physical environment, were covered, including the relationship of such questions to wider economic and sociopolitical issues. The response received from the academic and research community was impressive and a tremendous effort was put in to select the research papers. The accepted

research papers and articles were published as an edited book entitled "Energy and Environment". The book is divided into 6 chapters- Materials for energy systems, Devises for energy conversion and storage, Environment and climate change, Green Computing, Markets for energy commodities and Bio synergy.

EXHIBITION - THE ENERGERIUM

(A Science Exhibition on energy management, nature and communication)

"The Energerium" is a science exhibition conducted in connection with INFOFEST 2019- an Interdisciplinary National Seminar conducted every year in Sree Ayyappa College,

Eramallikkara on 15th February, 2019. The exhibition was organized by IQAC, PTA & IETE Students' Forum and in Association with the department of environment and climate change, Government of Kerala.

Participants

- □ANERT, KERALA
- ☐ Kerala State IT Mission
- ☐ Suchithwa mission, Kerala
- ☐ WWF for Environment
- UDUPPY Energy Management
- Technology, Kozhikode
- □ Energy Management Centre



Participants for Project Contest

- □ Dept. of Zoology, S.D College, Alappuzha (Research Scholar and Guide)
- □ Dept. of Electronics and Communication, Sree Budha Engineering College, Pattoor



The exhibition stalls were inaugurated by Sri. Joji Cherian (Member, District Panchayat, Alapuzha), Smt. Reshmi Subhash (Chairperson, Development Standing Committee, Thiruvanvandoor Grama Panchayat), Sri. Renjith S, Sri. Manu Thekkedath (Ward Member), Sri. Sureshkumar (PTA Vice President), Sri. Suresh Kumar Ambirethu (Former PTA Vice President) and the Principal Dr. K. S. Anilkumar. In addition to the stalls, numerous projects on the focal

theme were demonstrated by students of our college from various departments. Nearly 585 spectators including students of Sree Ayyappa College, Stella Mary's High School - Alumthuruthy, Ebenezer EM School Kallissery, Hindu UP School Eramallikkara, general public of Thiruvanyandoor Grama Panchayath, Ward members and the participants of the National Conference NCEE 2019 visited the exhibition stalls.









SEMINARS/WORKSHOPS/INVITED LECTURES AT SAC



WORKSHOP ON ACTIVE LEARNING STRATEGIES

With the aim of introducing innovative teaching- learning methods to the faculty members, one-day workshop was organized by IQAC on 05th April, 2019. Dr. S. Sandeep, Assistant Professor, Dept. of Chemistry, Sree Ayyappa College, who was trained in active learning strategies, from IIT Madras took the classes. He introduced

various active learning strategies, which are highly essential in the era of ICT.

ONE DAY SEMINAR ON DEFORESTATION, CLIMATE CHANGE AND WATER MANAGEMENT

In association with Environment Directorate and Department of Climate, NSS Unit and Bhoomithra Sena Club of our college jointly had observed Forest day on 28th March 2019. One Day Seminar was organized on "Deforestation and climate change". Climate change and Water Energy Management were the two major topics of discussion.



Ms. Reny R Pillai led the session on Water Energy Management. Followed by the session was a lecture on 'Deforestation and Climate change' Mr. S. Balasankar, Section forest Officer and Assistant Editor of Arinyam. The speakers pointed out the drastic variation that stirs the stable climate and the need of interdisciplinary learning to manage and protect such



situation in future. They also emphasized on to instill interdisciplinary skill oriented workshops and training programs in order to train the young generation in tackling the environmental disasters in future.

ONE DAY WORKSHOP ON DISTRIBUTED AND CLOUD COMPUTING

One Day Workshop on "Distributed and Cloud Computing" was organized by

Department of Computer Science on 25th March, 2019. The workshop covered basics of cloud computing and its principles. Mr. Sambhu R (Service Engineer, Hashroot Technologies, Infopark, Kochi) was the resource person for the workshop. An informative power point presentation on Distributed computing, its architecture, Client Server distributed computing and Network traffic Management in simulated distributed environment was rendered was rendered by the resource person in the beginning.



SELF DEFENCE WORKSHOP FOR **FEMALE VOLUNTEERS**

In association with the International Women's day, under the leadership of Pink police Alappuzha Unit, a self-defense training was organised by NSS Unit for the female volunteers on March 16, 2019./in

THREE DAY NATIONAL WORKSHOP ON "FOSS FEST" - LINUX AND PYTHON

On 9th to 11th March, 2017 three days National level workshop was organized by Department of Computer Science on the topic "LINUX AND PYTHON". resource person for the workshop Mr. Sooraj Kenoth (Member, Free Software Community) has delivered a lecture on the topic "Basics of Free and Open Source Softwares". The discussions on the topic "Basics of GNU/Linux and Installation" was led by Mr. Mujeeb (Member, Free Software Community). Hands on Linux experience was given by the faculty members. Moreover, Dr. Umesh P (Asst. Prof., College of Engineering, Aranmula) in his



invited lecture discussed on the topic of "Basics of Python" and "Python Programming".



TWO DAY WORKSHOP ON NETWORK ADMINISTRATION

Two Day Workshop on 'Network Administration' was organized by Department of Computer Science on 11th & 12th March, 2019. Mr. Pramod M.P. (Network Administrator cum CISCO and Microsoft certified trainer), the resource person for the workshop led the first session on Basic Principles of Networking which covers networks, its types, links, type of links, communication models, OSI-Models, IP addresses and classes, Subnetting and supernetting, Communication protocols, different networking devices,

crimping of cables based on its color code etc.



TWO DAY NATIONAL WORKSHOP ON "CUTTING EDGE TECHNOLOGIES IN FOSS"

Two Day National Workshop on "Cutting edge Technologies in FOSS" was conducted by Department of Computer Science on 1 & 2nd March, 2010. Ms. Simi Mathew (Android Developer Web Shore, Kochi) gave

lectures on the topic "Ionic Framework in Mobile Application (Android/IOS)" and led practical sessions for the students. Mr. Renjith C (Alpha Fork Developer, Angamali) and Mr. Kiran S (Wikipedia Contributor) were other resource persons for two other sessions.

TWO DAY SEMINAR ON SCIENCE COMMUNICATION-A TOOL FOR DEVELOPMENT

On 27th February, 2019, Two day seminar on "Science communication a tool for development" has been arranged by the Department of Biochemistry and Industrial Micro Biology and Science Club on the occasion of Science Day. The seminar was inaugurated by Dr.

A. B. Remashree, Director-Research-Spices Board, Kochin. Dr. Biju Dharmapaln, Science Communicator, National Institute of Science Communucation and Information Practices handled the Session II. He delivered information on the topic "The Art of Communicating Science". Poster presentations were organized for the students on various fields of science on 27th February 2019. Students were made various posters with different scientific knowledge. The seminar was



sponsored by "Kerala State Council for Science, Technology and Environment (KSCSTE)"

WORKSHOP ON PERSONALITY DEVELOPMENT FOR THE YOUTH

A Workshop on Personality Development for the youth was jointly organised by IQAC, Malayala Manorama and P&G on 26th February, 2019. Prof. Prakash, Department of Electronics was the convener of the programme. It was a Corporate Social Responsibility

initiative of Malayala Manorama and P&G. The Chief resource person was a renowned Personality Development Trainer, Sri. Saneesh. In his talk, he approached the students with variety techniques to improve their personality and soft skills, which are highly essential for their future.



WORKSHOP ON FINANCIAL PLANNING STRATEGIES

A workshop was conducted on "Financial Planning Strategies" on 12th February, 2019 by IQAC. Sri. Noufal, Financial consultant, APEX academy, Kochi was the chief resource person. He introduced various strategies to be adopted while building a financial plan by individuals and institutions.

ONE DAY SEMINAR ON "WETLAND FRIENDLY SOLAR ENERGY SOURCES FOR CLIMATE CHANGE"



In association with world wetland day celebration, one day seminar on "Wetland friendly solar energy sources for climate change" was organized by Sree Ayyappa College, Eramallikkara, funded by Kerala

State council for Science, Technology and Environment, Thiruvananthapuram on 31st January, 2019. The event brought together some 150 delegates in and around schools and colleges to

participate in the wetland day programme 2019. The convener of the seminar was Dr. R.T. Ananth Kumar, Department of Physics. The featured speaker of Invited lecture I was given by Dr. Brilliant Rajan, Assistant Professor and Head, Department of Environmental Science, St. John's College, Anchal, Kollam District, Kerala on the topic "Wetland and Climate Change". The second invited lecture was given by Dr. Abhilash R, Assistant Professor, Department of Zoology, Christian College, Chengannur 689121,



Kerala. The topic was on "Wetlands: A natural solution to Climate Change". Essay competitions in English and Malayalam were conducted for School and College students on "The need of wetland protection in Kerala". Drawing competition was held with a theme of "Wetland and climate change, Rain water harvesting". Prizes were distributed to the winners.

IETE STUDENTS' FORUM ONE DAY SEMINAR ON INTERNET OF THINGS

A seminar was conducted on the topic "Internet of Things" on 24th January, 2019. Prof. K.C. Prakash was the convener of the program. Prof. Jisha Nair B.J, Associate Professor in Computer Science was the chief resource person. In the talk, she introduced the forthcoming wonderful era of Internet of Things.

ONE DAY NATIONAL WORKSHOP ON "FOSS FEST" - LINUX AND PYTHON



The department of Computer Science organized one day national workshop "FOSS FEST" on 11th January, 2019 with the focal theme - Linux and Python. Session I was engaged by Miss. Priyanka P. L (Senior Foss Cell Member) on the topic entitled "Basics of Free and Open Source Softwares". The session II was conducted by Miss. Chithra.C. Nair (Senior Foss Cell Member) about "Basics of GNU/Linux and Installation".

INVITED TALK ON HUMAN RIGHTS DAY

As part of observing the International Human Rights Day, the NSS unit in association with Sree Ayyappa College arranged an Invited Talk on December 10th. Adv. Ammanji addressed the NSS Volunteers.



AIDS DAY AWARENESS PROGRAMME

The Department of Biochemistry and Industrial Microbiology, organized an awareness class on HIV-AIDS on 6th December 2018. Dr. Smitha Vijayan, Research Associate, Mahatma Gandhi University, Kottayam, handled the session. She delivered a talk on HIV-AIDS, about the virus, transmission, prevention etc.

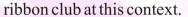




INVITED LECTURE ON HIV AND ITS PRESENT SCENARIO

On December 2nd, the NSS unit organised a Seminar on "HIV and its present scenario" with the help of Health Department. Smt. Preetha (Junior Health Inspector PHC, Eramallikkara) addressed the students, which was followed by blood detection camp.

College students, Asha workers from Panchayath, and students from HINDU UP School participated in this event. The seminar created general awareness among the youth regarding the HIV SOURCE, Management regimes, its socio economic impact and importance of red





AWARENESS TALK ON CANCER AND ITS TREATMENT

An awareness talk was organized in association with World cancer day on November 6, 2018, by the NSS Unit of SAC.

Dr. K. G Sasidharan, Director, District Cancer Center, Pathanamthitta had conducted the class on "Cancer and Its Treatment".

ONE DAY SEMINAR ON BIOSCIENCE SCOPE AND OPPORTUNITIES

The Department of Biochemistry and Industrial Microbiology organized a seminar on Bioscience scopes and opportunities on 26th October 2018. Mr. Biju Dharmapalan, Head Biosciences,



Mcfast Thiruvalla handled the seminar. The seminar discussed various opportunities and scopes in the field of Bioscience. The seminar helped the students to get a picture regarding various opportunities in this field to the students.

SEMINAR ON ANTIBIOTIC RESISTANCE-A THREAT

As part of opening a local chapter for ASPIC Club at SAC, a seminar was organized on 8th October, 2018 by the Department of Biochemistry and Industrial Microbiology in association with Science Club ReAct Asia Pacific Group. Dr. Mathew Philip from Pushpagiri Hospital coordinator led the talk on "Antibiotic Resitance-A Major threat".



ONE DAY SEMINAR ON "PROTECT THE EARTH AND PREVENT OZONE LAYER DEPLETION"

With the focal theme of "Keep cool and Carrry on The Montreal protocol", the World



Ozone Day 2018 was celebrated on 22nd September, 2019 jointly by the department of Biochemistry and Industrial Micro Biology, Bhoomitra Club and NSS. Dr. M. S Latha Associate professor, Department of Chemistry, TKMM COLLEGE, Nagyarkulangara led the talk on "Protect the Earth and prevent Ozone layer Depletion". She has explained in detail the reasons of ozone layer depletion and its effect on climate.

Various competitions like intercollegiate essay writing, poster making and drawing competitions were held. A slide presentation competition for College students on "Global warming and its challenges" was also conducted.

INVITED TALK ON "SAHITYAM- NADAKATHILUM CINIMAYILUM"

In association with the Department of Oriental Languages and the literary club, a lecture was organised on 25th September, 2019 on "Sahityam- nadakathilum, cinimayilum". Sri. Unnikrishnan C, Assistant Professor, Department of Malayalam, MSM College addressed the students.



STATE LEVEL SEMINAR ON ENVIRONMENTAL POLLUTION IN THE CURRENT SCENARIO - MAJOR THREATS AND SOLUTIONS



The Department of Biochemistry and Industrial Microbiology organized a 'State Level Seminar on Environmental Pollution in the Current Scenario - Major Threats and Solutions' sponsored by Kerala State Council for Science, Technology and Environment as part of the World Environment Day 2018 on June 20th and 21st 2018. The seminar was inaugurated by Dr. Geetha. S. Pillai, Deputy Project Director, Centre for Medicinal plants Research, Arya Vaidyasala Kottakkal. Smt. Binz. C. Thomas, District coordinator, Suchitwa Mission, Alappuzha took seminar on "Impacts of Plastic Pollution and Waste Management".

ONE DAY SEMINAR ON PLASTIC POLLUTION

One day seminar on "Beat Plastic Pollution" was organised by NSS, Bhoomitra Club and Science Club of SAC on June 8th, 2018 as part of World Environment Day



OTHER ACADEMIC ACTIVITIES

SIGNATURE CAMPAIGN IN SUPPORT OF HIV INFECTED

Red Ribbon Club of our college observed AIDS Day on 1st Dec in association with Public Health Department of Chengannur block, Thiruvanvandoor Panchayath and Pandanad panchayath. A Signature campaign was organized to support the HIV affected persons. Dr. K. S. Anilkumar, the principal addressed the gathering about the stigma that prevails in the society and the discrimination HIV affected persons face in the society. He emphasized on the need to adopt human rights approach in our day to day life to eradicate the existing stigma and discrimination.



CBCSS SURVEY

Internal quality Assurance Cell of the College conducted a survey on 05th December, 2018, as per the guidelines issued by the University of Kerala. The survey was aimed to study the effectiveness of the existing Choice Based Credit and Semester System (CBCSS). Prof. K.C. Prakash was the convener of the Cell. Separate questionnaires were issued to students and faculty members. A sample of 50 sets of data was collected from the students and 17 from the teachers. Pros and cons of the system was effectively evaluated and submitted to the University.



ORIENTATION CLASS

The career guidance cell functioning in college organised an orientation class on Civil Service and UPSC Exams on July 27th, 2018. The class led by Sri. Gopkumar IRS helped the aspiring students to prepare themselves for the various exams conducted by GOVT.

INDEPENDENCE DAY

On August 15th, 2018, Independence Day was celebrated. Flag hoisting followed by Independence Day message was given by Dr. N. Madhavan, previous NSS programme officer. Students had conducted a rally and participated in cleaning programme at the college.



YOGA DAY

On behalf of NSS, the International Day of Yoga was celebrated on 21st June, 2018 in College premises. A Flash Mob was also performed.







NATIONAL SERVICE SCHEME (N.S.S)

The National Service Scheme of Sree Ayyappa College is the epitome of the expression of confidence and aspiration manifested in the younger generation. The programs of N.S.S. were coordinated under the guidance of program officers Dr. G. Ganga and Dr. Remya L. Volunteers enrolled in the N.S.S. unit, are working towards the national theme of N.S.S - "Healthy youth for Healthy India".

ORIENTATION PROGRAME FOR NSS VOLUNTEERS

Dr. Ajithsen, State NSS Coordinator had conducted an orientation class for the newly enrolled NSS volunteers on November 24, 2018. He explained in detailed about various activities to be conducted at the college and role of NSS volunteers. He grouped students and instructed program officers to conduct group level activities.

MAJOR ACTIVITIES

- 1. Preparation of Green Protocol pamphlets, Distribution and Implementation of Shuchitwa Mission Manuscrips, to make adopted villages plastic pollution free and Awareness campaigns at Panchayath Level.
- 2. Plastic and E-waste collection from Eramallikara panchayath.
- 3. Cleaning and setting up of bio-garden using natural resources in campus to make campus green.
- 4. Cleaning Panchayath roads and premises.
- 5. WALKATHONE- for proclaiming the Panchayat as MALINYA VIMUKTHAM.
- 6. Wealth from Waste Making of Cloth bags and Paper bags.
- 7. Anti-Drug Campaigns- Drama, Skits, Awareness Rally, Pledge and Signature.
- 8. Inter-Collegiate & Inter-School Competitions
- 9. Cancer Survey & Detection Programs.
- 10. Health and Hygiene Awareness Class & Medical Camps
- 11. Various Seminars, Invited Lectures, Awareness classes and Workshops
- 12. Environment Protection Programs

13. Youth & Personality Development, Women Empowerment, Skill Training Classes

- 14. Know Your Nature
 - a. Puzhanadatham
 - c. At Soil Checking Laboratory
- b. Visit to Kumarakam Bird Sanctuary
- d. Varattar Restoration Pit Making





































KERALA FLOOD RESPONSE 2018

The dark times Kerala has ever faced in the history were during 2018 July-August. Salute to all warriors who stood upto the time. The devastating flood Kerala faced had affected our college and surrounding areas badly.





FLOOD RELIEF ACTIVITIES

The Department of Biochemistry and Industrial Microbiology, in association with the District Medical officer, Alappuzha organized a program Kerala flood response on September 12th 2018 to increase the awareness regarding the spread of diseases and prevention methods after flood. The program discussed about various diseases which can be transmitted after the flood. The precautions and preventive measures were also discussed in the seminar. Smt. Chachikkutty, Health Inspector, Eramallikkara and Sr. Naresh, lead the Seminar and cleared the doubts of students. College students and staff actively participated in various ways along with Government of Kerala to rebuild our land.





VISIT TO FLOOD AFFECTED HOMES

The members of the Department of Biochemistry and Industrial Microbiology visited the homes of flood affected students. The faculties visited around eight homes of the flood affected students and discussed and enquired the help they needed. According to their need the Department helped them by providing study materials. Also the Department of Biochemistry and Industrial Microbiology conducted free water quality analysis of the well water of five different Panchayath such as Thiruvanvandoor, Pandanadu, Cheriyanadu, Pulikkezhu and Kadapra after flood. The analysis was completely free of cost. People from different locations

approached and the study mainly focused on the coli-forms and drug resistant pathogens

present in wells after flood

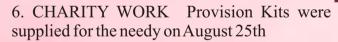




College NSS Unit actively participated in many flood relief activities throughout the Panchayat, Alappuzha district and Chengannur Taluk.

Total number of volunteers participated-100, Non-volunteers-200

- 1. Clean Chengannur Taluks, cleaning the wards of Thirvanvandoor panchayat.
- 2. Re-build Kerala Mission
- 3. Cleaning the Schools and wells & Water quality assessment
- 4. Flood relief health camp and surveys
- 5. Anti-Rat fever campaign



















CLUBS AND ASSOCIATIONS

STAFF CLUB



The staff club has contributed a Mobile Phone to Mr. Aneeshkumar. V, Watch man of the College who has lost his mobile phone while doing his service to the College during flood.

Staff club has collected and given Rs.20,000/- towards the festival of Sree Dharma Sasta Temple, Eramallikkara

FAREWELL

A get together along with a sendoff function of the members Sri. Unnikrishna Pillai, the Head Accountant and Sri. Sethukumaran Nair, the Library Assistant has been arranged by the staff club.



VIMUKTHI CLUB



Vimukthi Club in association with NSS UNIT had organized a quiz competition for the club members. The quiz was organised by Mr. Sreekumar, Excise officer, Chengannur. Fifty participants participated in the Quiz, which was conducted on two round basis. After the first round 10 participants were selected and 50 questions were asked to the selected participants. The program created an awareness on various aspects on drug abuse, its laws and history behind various activities took part in India.

WALK WITH SCHOLAR (WWS) PROGRAMME

Dr. Rejiya C.S, Department of Biochemistry and Industrial Microbiology, was the College level Co-ordinator for the Walk With a Scholar (WWS) programme. WWS scheme proposes to arrange specialized mentoring programmes for students in Under Graduate Programs in Arts, Science and Commerce and to provide guidance for their future. The scheme introduces the idea of mentoring and builds on the concept of mentor as a 'Guide' and 'Friend'. The Scheme aims at giving necessary orientation to needy students, to prepare them for employment

For the purpose of mentoring, two categories of mentors are to be identified. One will be 'Internal Mentor' and the second will be 'External Mentor'.









SCHOLAR SUPPORT PROGRAMME (SSP)

The Government of Kerala had launched the Scholar Support Programme (SSP) in the Government Arts & Science Colleges during 2012-13. The Scholar Support Programme aims at imparting personalized additional support to needy students through Tutorials, study materials, additional lectures, question banks and interactive sessions, formation of Quality circles in colleges for the program, dissemination of classes through Personal and Web based modes etc. Classes were arranged for the first year students of department of Mathematics, Computer Science, Electronics, Commerce and Biochemistry & Industrial Microbiology. All external mentoring and internal mentoring sessions were conducted during this academic year. Dr. Vidya N, Department of Mathematics was the Co-ordinator of the Scholar Support Programme.







LIST OF GRANTS/FUNDING RECEIVED

SI. No.	Name of faculty and department	Funding agency	Amount in Rs.
1.		IETE, Cochin Centre	10,000
	Prof. Sobha P.K (Department of Computer Science)	Kerala State IT Mission(KSITM), Thiruvananthapuram	50,000
		Kerala State Science Technology and Environment KSCSTE, Thiruvananthapuram	50,000
2.	Dr. Ganga (Department of Biochemistry and Industrial Micro Biology)	Kerala State Council for Science, Technology and Environment	14,000
3.	Dr. R.T. Ananth Kumar (Department of Physics)	Kerala State Council for Science, Technology and Environment, Government of Kerala	18,650
4.	Dr. Suresh S (Department of Electronics)	Department of Environment and Climate Change, Government of Kerala	70,000
		Federal Bank, Thiruvanvandoor, Chengannur	9,000
5.	Dr. Nitha B (Department of Biochemistry and Industrial Micro Biology)	Kerala State Council for Science, Technology and Environment (KSCSTE)	14,000 14,000 8,000

CHARITY WORK - DONATION TO DISEASED PERSON

On 27th March, 2019, Department of Biochemistry & Industrial Microbiology took initiative to raise the fund for the treatment of a cancer patient from our nearest college DB Pamba college, Parumala.





CELEBRATIONS



SPORTS

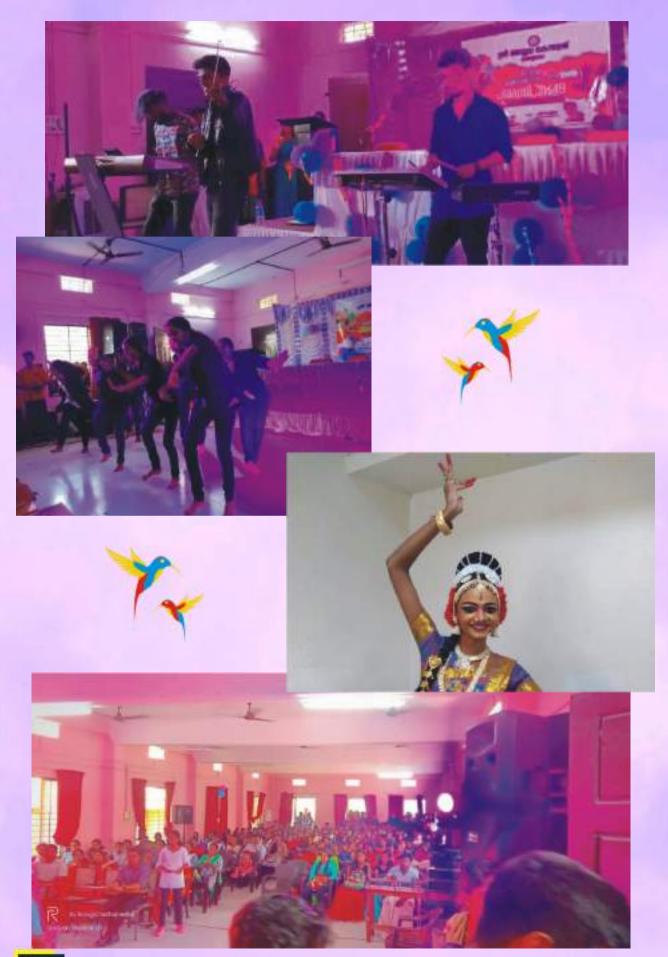


COLLEGE UNION



ARTS DAY CELEBRATION AGNI 2K19





CHRISTMAS DAY CELEBRATION

The Department of Biochemistry and Industrial Microbiology organized a Christmas celebration programme on 19th December 2018. A christams message was given by Dr. Nitha.B, HOD and the students shared their feelings. Gifts were exchanged among the students and staff and it was a memorable moment.

NSS Unit of SAC celebrated Christmas during the Annual Special Camp. Sri. Jose George, Superintendent of Central Excise and GST gave a Christmas day message emphasing the need for spiritual and mental empowerment of youth.





HOLI CELEBRATION





EXCURSION



Major in Media / Newspaper news



കാൻസർ ബോധവത്കരണം നടത്തി

ഇരല്ലേക്കര > ശ്രി തായ്യപ്പാ കോ ട്രേജിൽ കാൻസർ ബോധവത്ക ാണ ക്ലാസ് നടത്തി. പത്തനംൽ ട്ര ജില്ലാ കാൻസർ കേന്ദ്രം ഡയറ കർ ഡോ. കെ.എസ്.അനിൽകു മാർ ഉദ്ഘാടനം ചെയ്തു. കോളേജ് പ്രിൻസിപ്പൽ കെ.എസ്.അനിൽ കുമാർ അധ്യക്ഷത വഹിച്ചു.



മാത്രഭൂരി ത്രാ ചെത്രുവരി ത - അതോട്ട്

CHAP

02 നാട്ടുവർത്തമാനം

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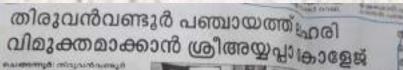


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THE PULWAMA TERROR ATTACK



Students of Sree Ayyappa College on 14th February, 2019 paid tributes to the fourty CRPF soldiers by taking out candle march procession outside the campus.

