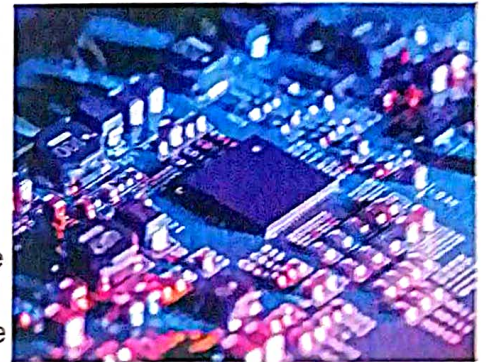




# Electrovogue <sup>20-21</sup>

## ELECTRONIC AND EQUIPMENT MAINTAINANCE (SF)



The Department of Electronic Equipment and Maintenance in St Aloysius College, Edathua was started in 2001 as a UGC sponsored vocational course. This B.Sc. Programme is a two core courses programme under choice based course credit and semester system. The department runs one under-graduate self financing course (Double Main, Model III) affiliated to MG University B.Sc.

EEM with Physics and Electronics as main courses and Computer and Mathematics as the complementary courses aiming to provide a strong foundation for developing skills in electronic circuit designing, software development, assembling, troubleshooting and maintenance of computers with the objective to equip students to pursue careers in Electronics, IT and Computer Hardware related fields or to go in for higher studies in the related disciplines and also enable students to start an enterprise of their own. The students of the department will be placed in industries direct through campus recruitment and by direct means.

The Department has good infrastructure with well equipped laboratories and an exclusive Departmental library. The Department is regularly organizing programs like Regional Conference, Seminar, Workshop, etc., with the support of various funding agencies. The department conducted a project competition and exhibition called NIRMAAN from the academic year 18-19. We successfully conducted Mahesh Kumar memorial intercollegiate quiz competition during 2019-2020 academic year. The competition prize money and everrolling trophy is sponsored by 07-10 batchmates of Mahesh Kumar. The department encourages students to involve in In-House Projects and Inter-Departmental Projects. The Department periodically conducts value added courses, certificate courses and training programs for students to improve their technical skills in theory and practice.

We also train our students to excel in application and logical skills through electronics project and seminars. In addition to the regular classroom and laboratory sessions we provide our students to undergo 30 hours on Job training at centres associated with IT/ Electronics industry. There are six faculties in the department with Mrs Rani Mohan as the course coordinator. The Department is well equipped with necessary facilities and resources for teaching. Teaching methods using Power Point Presentation and the Net based techniques are followed to support and augment conventional methods. Open house programs, tutorials and remedial classes are organized on a regular basis. In the EEM department at SAC College, we provide a curriculum focused on guiding students to understand the foundational principles of Physics and Electronics. Our biggest pride has always been the large volume of students who have always done us proud by maintaining a consistent record of high academic performance at the University level, including University ranks. The laboratories have been setup to enable students to use the techniques, skills and modern engineering tools necessary for helping the students to develop their technical efficiency and also to give them an exposure of latest trends in the field of electronics and computer technology.

## QA/QC Certificate Course

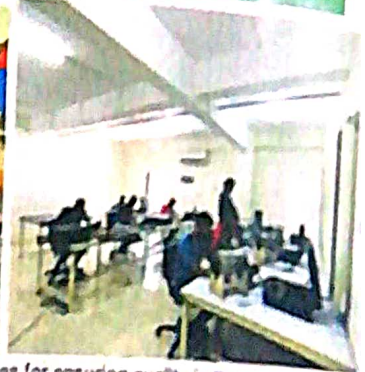


### Principal's Message

Education is a life-long learning process and our mission therefore is to provide a learning environment to our students as learners. It is a great pleasure to me to know that Department of EEM is going to publish their departmental News Letter. I do hope this will cultivate and inspire all the faculty, staffs and students and education lovers curious about the updates. It will also create a platform for curious persons. We will strive to foster a culture that is focused on doing what is best for students and ensuring that they have a positive educational experience that will impact them for a lifetime. I would also like to thank the wonderful staff team for their hard work throughout the year, and especially for their support.

I wish its successful propagation.

Dr. Jochan Joseph



Quality Assurance (QA) is a set of activities for ensuring quality in the processes by which products are developed. Quality Control (QC) is a set of activities for ensuring quality in products. Duties of a QA/QC Engineer are preparation of project specific quality plan, inspection material reception, ongoing work inspection like visual check of welding and installation of equipment, motors, piping supports & fittings, hydro test, pneumatic test till commissioning & also documentation of all of this. The department of EEM in collaboration with NSBDT, Angamaly provided a certificate course for our students. The duration of course was 240 hours including practicals. 8 students completed this course successfully. Successful candidates were provided placements in different reputed companies.

### Message from HOD

I am so proud of my colleagues and students of the Dept. of EEM. They have stepped up to look at how our department can move in the right direction and be more efficient. "Electro Vogue" is an example of it. Congratulations.

Prof. Rosmin John



### Mahesh Kumar memorial intercollegiate quiz competition 2021

'Mahesh Kumar Memorial Quiz Competition 2021', an Inter-college Quiz Competition was organized by Department of EEM and Batch mates of Mahesh Kumar (2007 - 2010 batch), St Aloysius College Edathua, Kerala on 30/03/2021. Mahesh Kumar was a loss for every one concerned. Such is the fact of life sometimes that someone so brilliant and with so much to offer has to go so early. But I hope we have all been touched by him at some level and that shall live with us forever. Altogether 40 participants from 4 colleges of the district participated in the competition. The theme of the quiz competition was Electronics based. Dr Jochan Joseph, Principal, SAC, Edathua inaugurated the quiz with his presidential address. The programme was conducted by Mr Sebastain Thomas (Faculty of EEM) who acted as a quiz master in the quiz. Mrs Rani Mohan, Coordinator of EEM department was the Convenor of the Quiz Competition. Esteemed faculty members were also present in the Quiz Competition. The initial rounds of quiz comprised of a preliminary round followed by the selection of 4 teams out of 8 teams. Two rounds were held thereafter which included technical & general awareness questions. Altogether 2 elimination and 4 Rounds were conducted by the quiz master. The result of the competition is as follows: 1st St Aloysius College, Edathua 2nd Marthoma College, Thiruvalla. The 1st and 2nd winning teams of the competition were given away certificates along with cash prizes of Rs. 1000 and Rs 750 respectively. A Running Trophy was handed over to the Champion Team. The prize distribution ceremony was graced by the presence of our principal. The vote of thanks was conveyed by Mrs Supriya Kurien, Faculty of EEM.

## Webinar

**ST. ALOYSIUS COLLEGE, EDATHUA**  
NAAC Re-accredited A Grade College

**DEPARTMENT OF B.Sc. PHYSICS-EEM**

**NATIONAL WEBINAR**  
**INNOVATIONS AND START-UPS IN ARTS AND SCIENCE COLLEGES**

**CONTACT:**  
Dr. Benny Joseph, Innovation Ambassador MHRD Govt. of India  
Email: benji@rediffmail.com  
Phone: 94478 22222

In this webinar, the speaker explored the fascinating universe of science entrepreneurship. The webinar analyses the current scenario and emerging trends across the various dimensions that define the Indian start-up ecosystem, and gauge India's position as a global start-up hub that is becoming attractive for investors, start-ups, & corporate.

**Speakers:** Dr. Benny Joseph, Innovation Ambassador MHRD Govt. of India

**Organizing Department Name:** EEM

**Date:** 05/09/2020 **Venue:** Through Google Meet

**Event Description:** The department of EEM has organized a national webinar on the topic "Innovations and start-ups in arts and science colleges" in association with IQAC, St Aloysius College, Edathua on September 5, 2020. Dr. Benny Joseph, Innovation Ambassador MHRD, Govt. of India disseminated the information about start-ups among the faculties and students of the institution. The participants were provided e-certificate. About 150 students from different colleges across Kerala participated online greetings and New Year wishes were extended.

## LED Bulb making



Today, LED lights have become inseparable part of the life. People use it, as these are extremely economical and energy efficient. This has brought a revolutionary change in the lives of people. The complete energy efficient LED bulbs have made the life simpler. These durable and Eco-friendly bulbs are over taking the incandescent bulbs very quickly. The global LED lighting market is highly fragmented due to the presence of large number of regional and international players across the globe. LED lights are becoming the major source of energy efficient lighting in India. Though, prices of LED lights are higher than incandescent or CFL bulbs, but LED bulbs are becoming the part of main stream of market owing to government initiatives and increasing public awareness about benefits of using LED lights. Department of EEM, St Aloysius College Edathua conducted LED bulb making workshop on 17/03/2021 in the department lab. The workshop was conducted by Mariamma Devasia and Betty Sojappan of Little flower Convent, Pulinkunnu. Our students actively participated in the programme

## Work shop



Our II DC students conducted a one day workshop on 08/03/2021 for I DC students introducing the electronics related lab equipments. Adithyan, Aseel, Abin, Kevin, Kamarudeen, Gowreesh, Vijay KS lead the workshop. Students and faculties were enlightened the possible requirement of the tools for understanding and solving several electrical complications. This session also focused on discussion about various applications of various lab procedures. It helped to improve the knowledge and upgrade the skills of operation and maintenance of equipments.

## VALEDICTORY FUNCTION

Valedictory Function of the final year EEM students was held on 31-03-2021 at 1.00 pm in the department. The function started with the welcome address by Mrs Rani Mohan. During the welcome address she suggested that teachers must evaluate themselves, explore their weaknesses and build themselves to discuss cutting edge research areas with the students. She also suggested that we need to improve the education by up grading the faculty and exciting the young minds. She also emphasized on gender equity for creating more women leaders. She said that expansion of advanced learning facilities and inclusion of disadvantaged groups would bring quality in education. She informed the teachers to play a decisive role in developing language skills, communication skills and technical expertise among the student community. The principal Dr. Jochan Joseph in his presidential remarks, insisted upon the need of changing policies and strategies of education in accordance with demands of time. Then only education can contribute to human development. The function successfully ended with vote of thanks given by Mr Kevin IInd DC student. The Programme overall was the feather on the cap and it was a milestone and there will be many on the way to come. The Department is always known for giving its quality education and making the students learn through practical training. This will be continued in the years to come with more number of work shops and conferences which tunes the intuitive minds of the younger generation.

## Message from Coordinator



The Department of EEM has recorded consistent improvement in its academic, research and placement performance. We believe that our students have been well accepted in their job profiles and have consistently exceeded expectations of the digital world. During study at the department, the students are encouraged to get hands-on experience in the corporate world through internship projects with reputed organizations. In their curriculum, they are encouraged to take up mini projects to supplement theoretical knowledge with practical experience. They also undertake projects benefiting local industries or dealing with local problems. These projects enable them to understand the relevance of working in a group and also help them to realize the finer aspects and importance of team work. This special edition of news letter showcases contribution of faculties and best practices adopted by the Department. Best Wishes!  
Rani Mohan



## Editorial Desk

A newsletter is a mirror of the department. A thought that has been enduring in mind when it becomes real; is truly an interesting and exciting experience. This news letter was one such cherished work that had its roots in the persuasion. It would be a snapshot of the various activities and advancements associated with the EEM. It reflects the literary and educational activities going on in the college. It projects the important events celebrated in the department during a certain month or year. A layman can judge the standard of the education of a college just by going through the news letter. It shows the activities of students in the field of their extra curricular enthusiasm as well as their academic ventures. This issue of news letter should inspire all of us for a new beginning enlightened with hope confidence and faith in each other in the road ahead.....  
Happy Reading!

A. C. Cherian

## Onam Celebrations

Onam was celebrated with high spirited gaiety and fervor on 27th August 2020. The celebrations were conducted online and the students who scored ranks in the University examinations were honored on that occasion. Dr. Jochan Joseph, our honorable Principal inaugurated the celebration. Various competitions were held under the online platform like Pookkalam, Nadanpattu etc.

ST ALOYSIUS COLLEGE, EDATHUA



## Christmas Day celebration

Christmas Day celebration was held on 22nd December 2020 with joy and gusto. The day was celebrated with all its religious fervor and the merry occasion was manifested with the conveying of Christmas message by Very Rev Fr. Tijo Pathallil and various other cultural programmers' online. Various competitions like card and cake making added flavor to the occasion. The prizes were distributed to the winners. Christmas greetings and New Year wishes were extended by the chief guest to the staff and students.

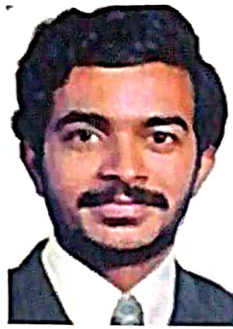
## Association Inauguration and Freshers day

The Department of EEM conducted association Inauguration of the academic year 2020-21. The event was graced by Dr. Jochan Joseph. The programme commenced with a soulful prayer which was followed by a welcome note. The Department of EEM hosted a colour-ful fresher's day for Ist DC students on 30th March, 2021 at 1.30 pm. Mrs. Rani Mohan, faculty of EEM department coordinated the programme. Other esteemed faculty members were also present.

## M.G. University Rank Holders



Ms Swathy Krishna  
FIRST RANK 2021



Benedict Maria Varghese  
FIRST RANK 2020



Lekshmee Ram  
SECOND RANK 2020



Our students have achieved a lot in the last year. The notable of these are the two university ranks we got. Benedict Maria Varghese got the first rank and Lekshmee Ram got the second rank in the university level in B.Sc Physics-EEM course in the academic year 2019- 2020. This achievement makes both the college and the department proud. The college honoured the students who got first and second ranks by giving the memento through online platform.

Congratulations to Ms Swathy Krishna who got first rank in the BSc EEM Degree Examinations of M G University 2020-2021 We congratulate the rank holders and the department for the achievement.

## P.T.A. Meeting

A meeting of the P.T.A. for the academic year 2020-2021 was held on October and November 2020 for the final year and second year students. The Objective was to build the relationship between parent and teacher and to involve parent in their academic progression. The meeting was begun at 11.00 am with the speech of Mrs. Rani Mohan (Coordinator). The class teachers had brief discussion with the parents regarding academics and exams like class tests, internal exams and term end exam & final university exam patterns. A meeting of the P.T.A. for the academic year 2020-2021 were held on March 2021 and May 2021 for the first year students. The parents actively participated in the meeting and gave their best suggestions for the smooth conducting of the online classes achievement.

## Career Guidance Programme

The Department of EEM in association with IQAC of St Aloysius College, Edathua and Avodha, Cochin conducted the webinar on "Career Guidance program" for the students and teaching faculties on May 28, 2021 at 11.30 am via Google Meet. Department Coordinator Mrs. Rani Mohan welcomed the gathering and Principal Dr Jochan Joseph delivered the keynote address. Avodha founded in 2020, Avodha is a vernacular up skilling platform that offers courses in coding, mobile mechanics, marketing, accounting etc designed to bridge the gap between academics and industry. Avodha offers up skilling courses across several categories in regional languages. Mr. Hafis, faculty presented the session. There were totally 82 participants which included faculties. This institution do not provide internships in medical coding course the companies prefer direct hiring. Eligible candidates will be provided placement assistance to jobs. Avodha believes in accessible education for all, so if you have friends or family members who are not a part of Avodha, you can still send them these links so that they can clear their doubts and get to know more about the industry in question. The course content delivered in the webinar is as follows: The impact of recent technology in Data Science in the living environment was discussed in this session. He clarified that students are free to switch courses according to their interests. "The course duration is generally three months but we have kept things flexible, allowing users to extend their course timing in case they need more time to completely grasp the course" he said. He discussed the basic concepts used in the technology relating with best suitable real life examples which are essential for the understanding of technology. He projected a clear understanding of the importance of intelligent robots and future problems in the real world. He inspired the audience by lively interacting on topics such as new trends in applying Data-driven Machine Learning approaches for business decisions and incorporation of Artificial Intelligence, Big Data, and Machine Learning applications. He emphasized on Business Analytics career opportunities in India and global market and gaining practical mastery over applications of machine learning through a hands-on project. Also the feedback about the session was collected from all the participants to improve the sessions that will be conducted in the near future and e-certificates were provided. Mr. Sebastian Thomas delivered the vote of thanks.