



INTERNAL QUALITY ASSURANCE CELL

(IQAC)

REPORT

2015-2016



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INTERNAL QUALITY ASSURANCE CELL (IQAC)

Sullamussalam Science College

The Internal Quality Assurance Cell is functioning in the college since 2005 . Activities of IQAC encompasses all academic and administrative activities of the college with following objectives

OBJECTIVES

- Instil a sense of quality consciousness in all stake-holders
- Formulate strategies for all-round development of the college
- Develop and prescribe the quality standards in the delivery of the academic and non-academic programmes
- Promote the innovative methods of teaching and learning
- Formulate internal mechanism for quality checks
- Incorporate stake-holders' input in governance
- Inculcate value system in students
- Suggest measures for improvement

IQAC monitors systematically the planning and scheduling of teaching-learning and evaluation process of the college in the IQAC meetings held periodically. IQAC monitors the activities of new initiatives such as WWS, SSP, ASAP and suggests suitable updates. IQAC prepare policy documents and assists in Utilization of RUSA assistance. Focus on seven broader areas -viz. Academics with emphasis on Skill based education, Digital Campus, Innovation, Research, Green initiatives, Industry Collaboration and Infrastructure-continued during 2015-16 with following activities.



1. Department wise Bridge course for the fresh undergraduates:

A commencement workshop for all first year students is being organised every year by each major department at the beginning of the Programme from 2007 onwards. The one-week programme conducted every year during the commencement of the degree programme consists of interactive sessions focused on the taste of different departments. The programme comprised of different sessions like Talk by an eminent scholars, Presentations on the overview of the Discipline with focus on the UG curriculum, Group learning Tutorials, Conceptual Discussions, Reading Sessions, Lectures and Tutorials on the Campus- Industry Linkages, Experimental approaches and Experimental Tools- an Introduction, Familiarization of Learning Resources, Evaluation sessions and Feedback etc. The bridge course for the year 2015-16 conducted during 14-17 July 2015.

2. National Science Day Celebrations-2016:

Sullamussalam Science College celebrated the National Science Day 2016. With zest on 25 Feb 2016. The celebrations started at 9.30 am on 25Feb 2016. The programme convener Dr. TP Abbas welcomed the gathering. Following the inaugural session, a presentation by Renna Shakkir, IV Sem B.Sc Physics on “National Science Day & Its importance” was held. At 10.15 am, a screening of the documentary “ How the Universe Works” was held. At 11.15 am, class representatives of the various science programmes presented the Recent Breakthroughs in the Fields of the Computer Science, Physics and Mathematics. At 12.00 noon, a Debate on ”Make in India: A Foolhardy Project or A Realizable Dream” was held. Shri. Ahammed Fayyas T, Asst Proffessor, Dept of Commerce moderated the event. At 12.45 pm, a Quiz Programme was held for the school students. Shri. Ayyoob P, Asst Proffesor, Dept of Computer Science was the quiz master. Ms. Afreen CT, Ms Misba K and Ms. Fathima Hiba, all from Sullamussalam Oriental School, won the First, Second and third prizes, respectively.



The official inauguration of Science Day Celebration-2016 was held at 2.00 pm on Feb 2016. The Celebrations was inaugurated by Mr. Pranava Sharma, Fellow of Royal Astrophysical Society. Following the inauguration, a science colloquium titled “Search for Gravitational waves: Indian connections’ was held. Mr. Pranava Sharma delivered the keynote address on the title ‘ Extra-terrestrial Intelligence.’ The next session was on gravitational waves. Mr. Mark Robert Baker, Research Scholar, Western University, Ontario, Canada delivered a talk on ‘Gravitational Waves-An introduction’. A discussion on ‘Opportunities in Astronomy & Astrophysics’ is carried out by Mr. Pranav P Manangath , Research Scholar, Western University, Ontario, Canada.

Following the science colloquium, Ms. Janna Parveen, IV sem. B.Sc Physics, introduced ‘ASTROSAT (India’s first dedicated multi wavelength space observatory)’ to audience with a prototype model designed by herself.

The celebrations concluded at 5.30 pm with the National Anthem.





3. Activities of IEDC are initiated in the college:

IEDC of SS College was inaugurated as a Grand event. The emerging Business icon Dr. Siddeek Ahamed was the chief guest of Inauguration. The major attraction of this event was the public programme where the delegates from various colleges and people from near by villages participated. The message about Startup mission and its activities, the role of IEDC in colleges, its role and relevance was conveyed. Representatives from management, PTA and students union felicitated the function. Another attraction of the programme was the presence of Vice Chancellor of Calicut University, Mr Dr. Muhammed Basheer.



We Released a video teaser and Special supplement for the publicity of IEDC and Startupmission. The inauguration was in an innovative method where the most advanced technologies by using Android Application and IoT with some mechanical activities involved just like Google IO.

Details of Achievements & Recognition

- Details of Competitions/ Hackathons/ Exhibition participated is briefly described below:
- Students from our college participated in 'intel' sponsored FICE Breakthrough Innovation & Entrepreneurship Camp held at NIT Calicut.
- Our students secured First place in startup i3 program organized by KSUM, hosted in TKM College of Engineering The award includes a cash money of Rs.15000/-
- “Dejavu” a two-day tech fest was conducted at Hera Engineering college, Trivandrum. The events were pitch perfect -- idea pitching and prototype submission. Two groups represented our college in pitch perfect and pitched their ideas. Both the groups were listed in top ten among the 43 contestants. The students said that the programme was very much helpful as they could hear all ideas of other group and also they could make many contacts with famous personalities in these fields.



- “Google Startup Weekend”- A 54 hrs Google Startup Weekend was conducted on 27/9/2016 at Model Engineering college, Edappally. Three students from our college attended the programme. The programme was scheduled for 54hrs event later it was shortened to two-day. The programme consist of a training session and two competitions, idea pitching and prototype submission.. Students from our college who attended the programme scored second place in idea pitching contest.
 - “Impulsive Vista”- School of management studies, calicut conducted an ALL INDIA MANAGEMENT MEET from Tagore Hall, Calicut on 20th October 2015. The program consisted of a small speech by V.K.C Footwear MD V Noushad. The program also had various business games.The program assisted the participants to improve their business skills by competing and interacting with MBA students and graduates.Four students participated form our college.unfortunately they could only reach level 3 of 4.
 - Our team represented in “Waymakers contest” held at Govt. Engineering College Wayanad
 - Two Students from our college attended the one day workshop and orientation for student coordinators “Startup Malabar” at Tirur Polytechnique college
- 10 Students from our college was sent to the “IEDC Summit 2016”. They participated in various events conducted on behalf of the Summit.

A One day workshop on “Entrepreneurial opportunities with Camera”.

An expert panel from a famous photography team “LightMagic Institute of Photography” conducted a one day Workshop on Entrepreneurial Opportunities on Camera. Students of our College and nearby institution attended the program. The open discussion enlightened the opportunities of new generation model camera entrepreneurship.



'CHAT WITH ENTREPRENEURS'
MARCH 10th 2:30 PM @ SEMINAR HALL
SULLAMUSSALAM SCIENCE COLLEGE




SHAMIL SALAM (FOUNDER) **SHIBIL SALAM (CO FOUNDER)**

തെങ്ങിൽ കയറാനുള്ള പുതിയ യന്ത്രം വിപണിയിലിറക്കി



The new entrepreneurs who invented the 'Sistand Climbers' (Tree Climbers)
INNOVATION & ENTREPRENEURSHIP DEVELOPMENT CELL (IEDC)

4. Face- to -Face programme between the students and a Successful entrepreneur:

IEDC of Sullamussalam Science College conducted a face to face programme between the business magnet Mr. Sideek ahamed and selected students from different colleges. Dr. Siddeek Ahmed is the Managing Director of Eram Group, which is a power house in Industrial Contracting, Project Management Solutions, Automotive, Health Care, Travel, IT, Manufacturing, Power Electronics, Trading, Floor Covering, Product representation & other commercial services. He is also a philanthropist, and treats this facet of his life just as passionately. He supports several charity initiatives in partnership with Governments, Trusts, NGOs and individuals besides his own projects.

It was really a worth program where he interacted about the new ventures, opportunities, challenges and the beauty of entrepreneurship. Much of the students asked several questions from various areas and Mr.Siddeek answered it.



5. Idea contest conducted by IEDC SS College:

IEDC of Sullamussalam Science College conducted an innovative platform for the fellow students to boost up their grey cells and come up with their extraordinary idea. The intention of this contest was to bring in more of discussions, talk and development entrepreneurial eco system in the campus. The contest was great success with a lot of unexpected and brainstorming ideas which awed the judges. The winners were honoured with Attractive cash prizes and mementos.

The work includes students of different streams like travel, tourism, business, food, management etc. Proposals of ideas from all these areas had been invited. A screening committee from various departments in our college has been selected and they screened 20 ideas among them. These candidates then allowed to present their idea in front of the



judging panel. Among them, the most amazing 3 had been selected and declared as the winners of the event.



6. The Scholar Support Programme (SSP):

The Scholar support programme (SSP) envisaged to extend support to scholars in the under graduate programme with timely assistance in terms of tutorials ,additional lectures, interactive sessions , question banks and study materials was continued in 2015-16 also. This year one hundred students from the first and the second year UG programmes of various Departments were selected for five courses , namely, English, Economics, Mathematics, Statistics and Physics. A financial assistance of Rs 121000.00 from the Directorate of Collegiate Education is utilized for remuneration for the teachers handled the classes, study materials for students, coordinator charge, travel expenses for students etc



7. Walk with a Scholar (WWS) programme:

In the banner of WWS programme the scholars are assigned with two works in the case of 2014 batch as part of internal mentoring in the academic year 2015-16. (I) To improve the reading habit of the scholars, selected titles are distributed among the scholars. Now they are preparing the review of the one of the titles supplied, as a team work of each stream. In this activity, group discussion, reading sessions, interactive sessions with mentors and document preparation are involved. This will enable the scholars to actively think and discuss various aspects of the specified book in different levels. (II) Preparation of a SWOC (Strength Weakness Opportunities Constraints) analysis is done in respective stream in the supervision of each internal mentor. This will help the scholars to understand the actual picture and to identify the position of the scholar in the respective stream. The outcome of these two activities will be analysed later.

The one day Capacity Building Workshop for the new internal mentors was conducted on 04/02/2016 at Unity Women’s College, Manjeri. There are four sessions in the programme of two days as given.

Day	FN session (10:00 am to 01:00 pm)		AN session (02:00 pm to 05:00 pm)
09/01/2016	‘Motivational and Inspirational inputs’ by Noushad Areacode.	Lunch break	‘Confidence and fluency building in English through NLP’ by Mr. Abdul Sp Language Trainer and Coach
09/01/2016	‘Psychology of a learner’ by Mr. Hussain C. Advisor/Councilor, CIGI		Career of a Graduate-An introduction’ by Mr. Muneer K All India Radio, Thrissur



The programme was a residential one. The accommodation for girls was arranged in the hostel and boys stayed in the college itself. During night hours of the camp, NLP practice work is carried out. Modules regarding Group discussion on video inputs, Debating, Personality Grooming were included in the practice work. Scholars performed with various cultural activities after the practice session. As a follow up of this, we are planning to conduct a one day work shop on the theme 'contextualized speaking and listening and public speaking skills' in the coming days.

As a part of external mentoring session, WWS team of Sullamussalam Science College, Areacode arranged an educational trip to Trivandrum on 17th, 18th and 19th of March 2016. This trip was conducted for the second year mentees of 2015-16 batches. The thirty mentees were accompanied by their mentors- Dr. Mohammed Shanid N.A (Department of Physics), Jouhar.K (Department of English), Mujeeb (Department of Economics) and SwapnaMol George (Department of Computer Science).

The first destination was the space museum at Vikram Sarabhai Space Centre (VSSC). VSSC at Thiruvananthapuram is the major center of ISRO, where the design and development activities of satellite launch vehicles and sounding rockets are carried out and made ready for launch operations. The second session was held in the Karyavattom Campus of Kerala University, Trivandrum. It was a session on Research opportunities in Statistics and Mathematics. We visited the MIT USA Electronics Fabrication labs at Technopark, Trivandrum. The fablab in Technopark, Trivandrum is established inside the Indian Institute of Technology and Management- Kerala (IIITM-K). The students were introduced to cutting edge technologies listed below.



8. Materials Science Laboratory:

The Materials Science division was started in 2012 as an extension to the PG lab of physics and now it is upgraded as a Materials Science Laboratory as per the recommendation of IQAC. Materials Science is an inter-disciplinary field of applied physics and chemistry, along with chemical, mechanical, civil and electrical engineering involving the study and manipulation of materials and properties to various areas of science and engineering.. Its purpose is to give hands on training in production, manipulation and characterization of different material samples in different ways as part of project/dissertation work of UG/PG students of this college as well as a few external students.

Capabilities/ Facilities



- Synthesis of materials by wet chemical methods
- Solution based processing of organic/inorganic thin films by dip coating
- Solution-based techniques of crystal growth
- Structural and functional manipulation of materials through method of annealing
- Electrical Characterization under various temperatures through four probe method

Equipments

- Magnetic Hot Plate with Temperature Control
- Analytical Balance
- Annealing/ Sintering furnace
- High speed centrifuge
- Dip-coating unit with Hot chamber
- Water distillation unit
- Four probe set up
- D.C. micro voltmeter
- Constant current source
- Low current source



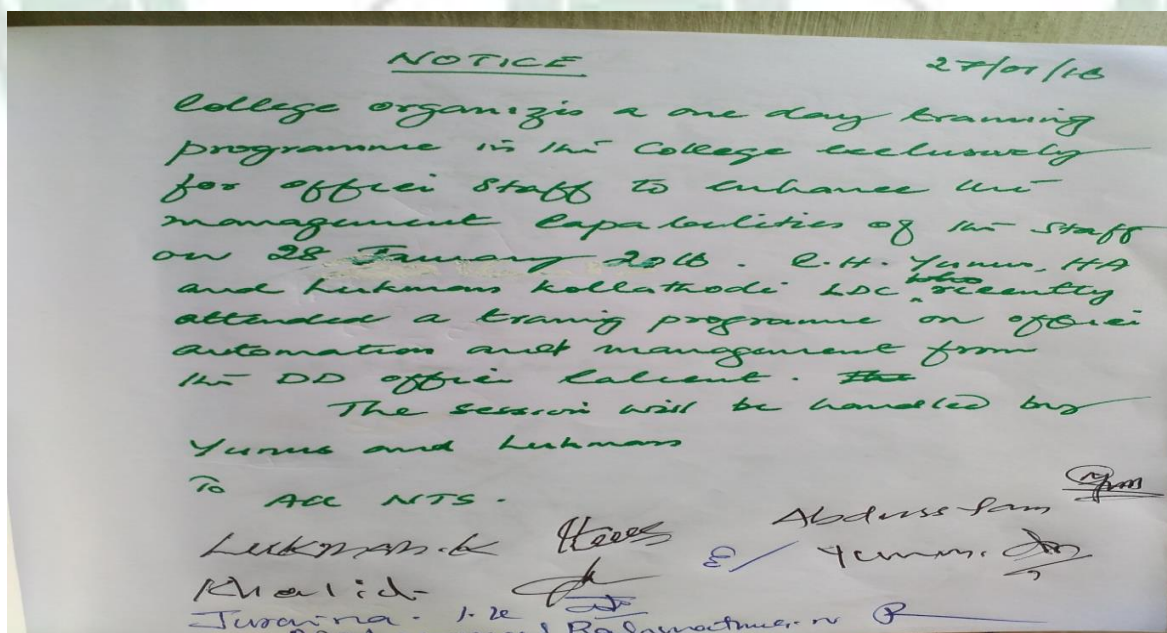
9. 'How to be an effective mentor' - A workshop for teachers:

Internal Quality Assurance Cell organised a workshop on student mentoring on 3 March 2016. Principal Dr.P.Muhamed Ilyas inaugurated the workshop. Mr.T.Saleem , eminent educational counsellor, trainer and former coordinator of 'Vijayabheri' education project was the chief resource person of the programme. Introductory presentation by the resource person followed by the group discussion of the teacher participants. Diverse issues related with the nurturing of students were highlighted in the queries raised by teachers during the interaction with the resource person. Dr.T.P.Abbas delivered concluding remarks.



10. Training on Office Management:

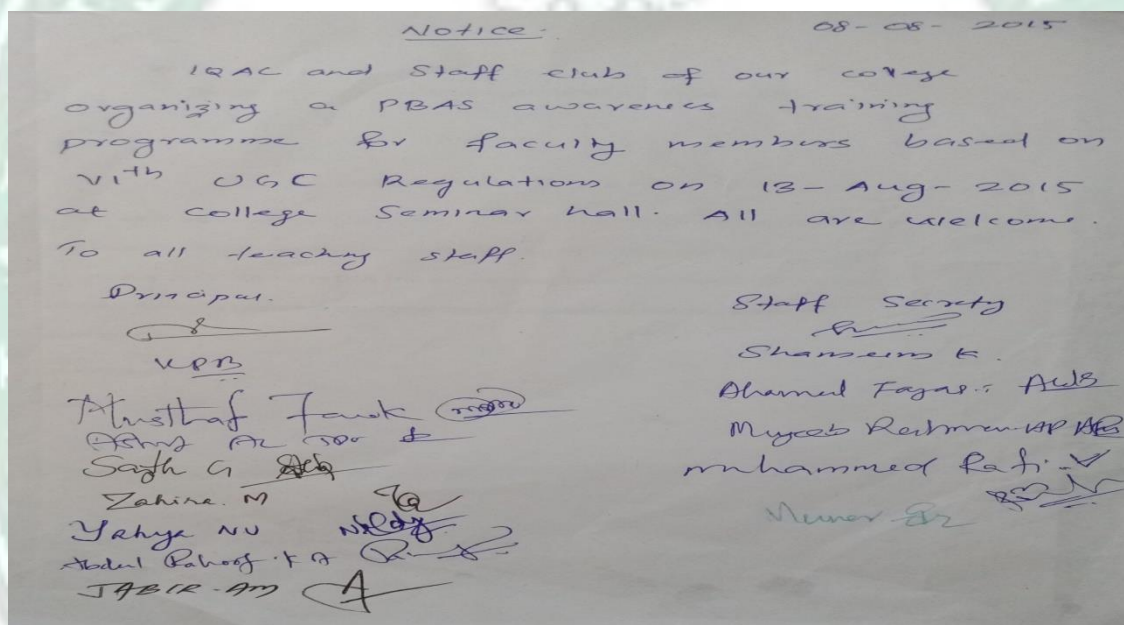
College organized a training program in the college exclusively for office staffs of the college to enhance the management capabilities of the staff on 28 January 2016. After attending a training program from DD Office Calicut, on office automation and management, Mr. C.H Yunus, H.A and Lukman Kollathodi, LDC HR.Gr effectively delivered the lessons. 8 non teaching staff members attended the program





11. IQAC and Staff Club of the college organized PBAS Awareness

Training Program: UGC introduced scoring system Performa titled “Performance Based Appraisal System” incorporating multiple parameters to evaluate teachers performance and academic accountability. To familiarize this IQAC and Staff Club of the college organized PBAS Awareness Training Program for Teaching Members of the institution based on UGC 6th Regulation Guidelines. The sessions handled by Dr. Musthafa Farooq, Associate Professor, Department of History on 13 August 2015 at college seminar hall. 19 staff members in the college attended the training.



12. Awareness Workshop on Spark

College organized an “Awareness Workshop on Spark” for all the permanent teaching and non Teaching staff of the college on 20th October 2015 at Computer Science lab to familiarize spark. Service and Payroll Administrative Repository for Kerala (SPARK) is a web based G2E integrated solution for Service and Payroll Management. SPARK is an attempt to bring the payroll and finance related activities of Kerala State employees within a single application K Ahamed Muneeb, UDC HR.Gr handled the sessions and 27 members(20 teaching and 7 non teaching) staff members attended the training program.