



ST. XAVIER'S COLLEGE FOR WOMEN, ALUVA
REACCREDITED BY NAAC WITH A GRADE (CGPA 3.33)

DEPARTMENT OF CHEMISTRY
ANNUAL REPORT
2019-2020

Silver jubilee special “Chemie News”

REPORT - DEPT OF CHEMISTRY 2019-20

June 1 st , 2020

Bowing to our patron, mother Eliswa , the principals who guided us, the gurus who showed us the way and to the non -teaching staff who strived hard for the successful completion of 25 years.....

DEPARTMENT OF CHEMISTRY KEEP ON RECORD THE SUPPORT,
GUIDANCE AND PRAYERS OF THE MANAGER MOTHER CLODIT,
DEAREST PRINCIPALREV.DR.SR GEEGE JONAMMA XAVIER,
VIVE PRINCIPAL DR.SR.STELLA AND EXPRESS OUR SINCERE
GRATITUDE TO THEM



Guruvandanam to our great gurus-A big big thank you!

As part of silver jubilee celebrations of Dept of Chemistry. "Guruvandanam" programme was conducted along with Osax meet 2020 as a mark of respect and gratitude to all the retired eminent faculties of the dept and to the non-teaching staff of the dept.



Osax 2020: cherishing the memories down the memory lane of St. Xavier's....



Chemistry Association and Silver Jubilee celebrations of the Department of Chemistry was inaugurated by Assistant Prof. Aravind K, S B College, Changanassery and Retd Former faculty Prof. T P Parvathy. A seminar was organised on the topic "**A Journey from Wild to the wildest**" by Assistant Prof. Aravind K, S B College, Changanassery.



സെൻ്റ് സേവ്യേഴ്സ് കോളജ് രസതന്ത്രവിഭാഗം രജതജൂബിലി ആഘോഷങ്ങൾ ചങ്ങനാശ്ശേരി എസ്.ബി കോളജ് അസി. പ്രഫ. അരവിന്ദ് ഉദ്ഘാടനം ചെയ്യുന്നു

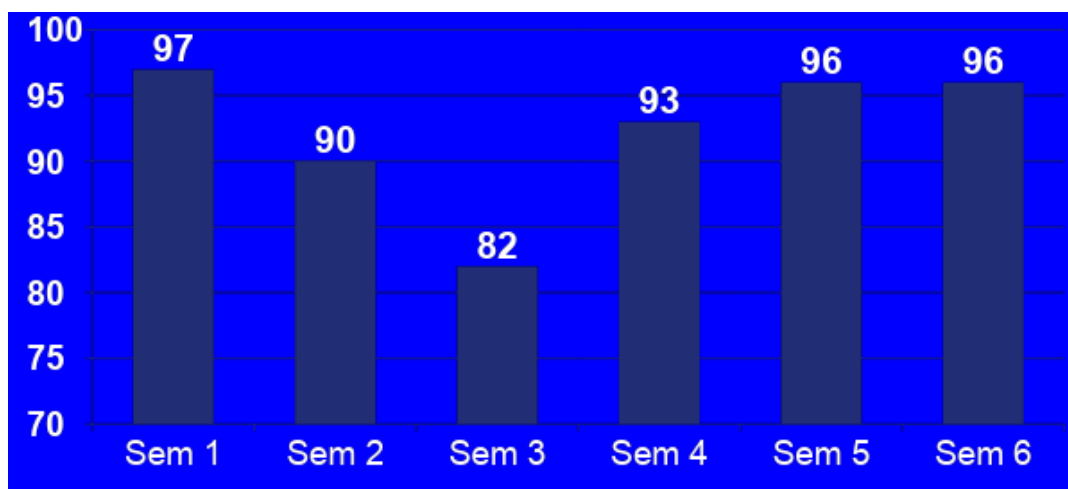
രജതജൂബിലി ആഘോഷത്തിന് തുടക്കം

ആലുവ: സെൻ്റ് സേവ്യേഴ്സ് കോളജ് രസതന്ത്ര വിഭാഗത്തിൻ്റെ രജതജൂബിലി ആഘോഷത്തിനും ഈ വർഷത്തെ അസോസിയേഷൻ പ്രവർത്തനങ്ങൾക്കും തുടക്കമായി. ചങ്ങനാശ്ശേരി എസ്.ബി കോളജ് അസി. പ്രഫസർ അരവിന്ദും രസതന്ത്ര വിഭാഗം മുൻ മേധാവി റിട്ട. പ്രഫ. ടി.പി. പാർവതിയും ചേർന്ന് ഉദ്ഘാടനം ചെയ്തു. പ്രി

ൻസിപ്പൽ സിസ്റ്റർ ഡോ. ശാലിനി അധ്യക്ഷതവഹിച്ചു. 'എ ജേർണി ഫ്രം വൈൽഡ് ടു ദ വൈൽഡ്' വിഷയത്തിൽ സെമിനാർ സംഘടിപ്പിച്ചു. വൈസ് പ്രിൻസിപ്പൽ സിസ്റ്റർ ഡോ. കെ.എ. സ്റ്റെല്ല, രസതന്ത്രവിഭാഗം മേധാവി ഡോ. ന്യൂലി ജോസഫ്, മുൻ മേധാവി മീന വർഗീസ്, ഷെനിയ ഫെസ്റ്റസ് എനിവർ പങ്കെടുത്തു.

Great Achievement dear Sharminaz-we are really proud of you!!!

Sharminaz C.S secured second position in the CBCS examination, B.Sc Chemistry Model I March 2019-20 with CCPA 9.77



RESULT ANALYSIS OF 2016-2019 BATCH

'HOBAK CIENCIA 2K19' -Freshers Day Celebrations was organised by the Dept. of Chemistry



Observance of Days of Importance

- In connection with the **International Year of Periodic Table 2019** an interdepartmental Quiz on “**Know the Elements** ” for the science students was organised to familiarise the elements in periodic table.



- In remembrance of **74th anniversary of Hiroshima day**, an awareness programme on “**Chemistry and Ethics of Atom bomb**” was organised



Lab Cleanliness day was observed in connection with Gandhi Jayanti 2019: Chemistry Students have cleaned their lab, refilled the chemicals and labelled it before starting their practical sessions.



- Lecture series on "Life and Findings of **Nobel Laureates** and Famous Scientists" was organised by III DC Chemistry Students in connection with "Nobel week" celebrated in the department.



National Science Day 2020

The theme for National Science Day 2020 was "Women in Science", which aimed to appreciate the contribution of women in the field of science. Under the leadership of WWS students, the first year degree students of department of Chemistry of St. Xavier's College for Women under the 'IGNITE scheme' organised a talk on the importance of National Science Day and on the C.V.Raman's Raman Effect for the 7th standard students of SNDP School, Aluva. They were invited to visit the college chemistry laboratory and inspired them to study chemistry through magical reactions. The IGNITE scheme is intended to develop a sense of social responsibility of spreading the knowledge they acquired in the degree level to young blooming buds of schools and also to inspire students in learning science and scientific experiments.



Academic Extension Programme

- **World Food Day of 16th October 2019** was observed by conducting an awareness program by **Chemistry students at SNDP School Aluva** on **Food adulteration** and its simple detection methods by demonstrating simple chemical tests to detect the adulterant .



- A two hour seminar session on '**Introducing the elements in *Periodic table and its uses***' was conducted by Chemistry students for Plus 2 students of SNDP HSS, Aluva.



- Interschool quiz competition was held in connection with International year of periodic table
Session on Mahatma ***Gandhi and Periodic table*** was organised on the 150th birthday of Gandhiji for plus 2 students of SNDP HSS,Aluva.



- A competition on ***Decoding the quotes*** using periodic table was conducted for plus 2 students of SNDP HSS,Aluva.
- As part of academic extension six lab sessions were conducted to high school students as part of **Junior Scientist programme under Navadarshan scheme** to inculcate curiosity and interest in Science and research.



Best Practice of the department of Chemistry: XAV CARE” Initiatives -(Xaverian Chemistry Association on Reviving the Environment)

The department of chemistry has started going green and has taken decision to revive the environment through go green workshops under the name “**XAV CARE**”(Xaverian Chemistry Association on Reviving the Environment) .Under this initiative each student of the chemistry department is a ‘go green ambassador’ spreading the message of the importance of going green for a sustainable and greener future.

- The department has organised a **workshop on HERBAL SOAP** using Ocimum sanctum (Tulsi) ,Azadirachta indica (Neem) and Eclipta alba (Bhringraj) extracts and Kera Coconut oil with the assistance of Kudumbasree trainers Ms Jessy Francis and Ms Shaila Vijayan.



- **Workshop on natural Dishwashing liquid** was also conducted for students.



- **Workshop on paper bag making** was organized for chemistry students



- **Flash Mob for Promoting Eco Tourism on Nov 26th 2019:**
Final Year degree students performed a Flash mob at Nisargadhama Tourist Centre, Coorg and distributed paper bags at various shops

with an intention to create awareness in the tourist and local people there ,the importance of saying 'No' to plastics for a sustainable greener future.

- **Each One Teach One programme** for Promoting Eco Tourism on Nov 28th 2019:Final Year degree students taught the local people at Malpibeach,Udupi how to make paper bags out of newspaper. 'Each one teach one' practice was intended for encouraging the use of newspaper as carry bag. The district counsellor of Udupi promised us to spread the idea through various associations there.
- Final year students of Department of Chemistry went on for an 'environmental tour" to Wayanad, Coorg, Dandeli and Udupii with an intention to develop aesthetic value as part of the new course introduced by M.G University, "Environment, Ecology and Human Rights"



'Xav Care Hand Sanitizer'

When MG university gave orders to the Principal to conduct the university examinations taking strict precautionary measures of using hand sanitizer and washing of hands with soap and water before entering the hall and as the availability of hand sanitizer was scarce ,the dept of Chemistry took initiative to prepare hand sanitizer in the lab as per WHO standards.

Add on jewellery making



Achievements

Sharminaz C.S secured second position in the CBCS examination, B.Sc Chemistry Model I March 2019-20. Department of Chemistry honoured her with a cash award of Rs 2000/-

Dept. of Chemistry received UGC sanction for conducting B.Voc course in 'Culinary Arts & Hospitality Management'.



- Four students of III DC Chemistry received placement in Chegg India Online Tutoring Campus hiring Recruitment.

Research/Project Activities

- Sharminaz C.S., second rank holder presented the paper entitled "Green synthesis of silver nano particles and their antibacterial properties" in connection with the paper presentation series of the Research Promotion Council



- Ms Sheneya Festus presented a paper on Comparison of synthetic methods of Azido Nucleoside Analogues in the International seminar on Current Trends in Chemistry and Chemical Education-Albertian Knowledge Summit 2020 organised by St. Albert's College.
- 15 various projects were presented by students of III DC Chemistry and following projects were carried out.
 1. Application of household waste as natural coagulants for removal of toxic metals from water -A comparative study
 2. Extraction of natural dyes from plants and natural dyeing of textiles.
 3. Green synthesis of copper oxide nanoparticles using *ocimum basilicum* extract and its antimicrobial activity assay.
 4. Hand made eco-friendly filters using rice husk for water purification
 5. Study of corrosion inhibition of Iron in acid medium by plant extracts
 6. Analysis of honey
 7. Green synthesis of nano zinc oxide using neem leaf extract

ClassbyAlumni

A Class on Enzymatic reactions and its characteristics was taken by Sharminaz C.S., alumni and second rank holder of the dept of 2018-19 batch.



Participation in College activities

- **Students participated in the clean campus drive of the college on 1st Oct 2019**
- **15 students of the department participated in the student solar ambassador programme organised by Energy conservation club of the College on 2nd oct 2019**



- **Students participated in the ethnic day rally organised on 3rd Jan 2020**
- **3 students participated in the Foldscope workshop organised by Zoo dept. on 7th Jan 2020**
- **Farewell and Social of III Dc Chemistry-"Adieu 2017-20" held on 4th March. Students shared their memories and photo session also held on same day.**



- **Mahatma Gandhi University winners with faculty members of Chemistry -Our students bagged first prize in eastern group song, group dance,oppana,A grade in malayalam speech and essay writing ,third in Bharatanatyam and a grade in folk dance**



Achievements:

- Rini Simon, II DC Chemistry: secured Elocution Mal -A grade in MG university youth festival, MBIFL2020 CAMPUSLITERARY QUIZ-first runners up,Gold medal in Developing Soft Skills and Personality ,First in Elocution Mal , first in debate - debate club competition and Third in Essay Writing Competition
- Anjana J Nair ,III Dc Chemistry:securedMalayalam essay writing A gradein MG university youth festival,Essay writing (Mal)-first
- Sreelakshmi P.S: Group dance -Firstin MG university youth festival,
- Ajmala: first in OppanaFirst in MG university youth festival,
- Minakshi: Hindi elocution-2rdHindi recitation -3rd
- Rini &MinakshiPARTICIPATED IN DISTRICT LEVEL-MATHURBHOO MI SPEAK FOR INDIA DEBATE COMPETITION, First in Book Anthakshari (Lib Week)
- Lima sebastian :Monoact-2nd
- Ayana Anand :Hindi elocution-3rd ,Hindi essay-2nd ,Hindi story writing -2nd
- SaneenaNourin,K.N ,AlfiyaAliyar,:Developing Soft Skills and Personality-silver medal
- Anjana Saji: Nptel-Introductory Organic Chemistry-Silver Medal
- ThahiraT.S,Sa-Adiya AA: Developing Soft Skills and Personality-Silver medal
- Sahala Salim:Developing Soft Skills and Personality-Silver medal
- Ann MariyaK.A III Dc Chemistry,**Eastern Group Song-1st**in MG university youth festival,Best outgoing LC student
- BinciyaBasheer:Developing Soft Skills and Personality-Gold Medal
- AncyBaby,Bhagya Suresh, Qualified Chegg expert Online Exam
- Aparna S:Qualified Jam Exam with 4876 Qualified Chegg expert Online Exam
- Megha Benny:3rd in Bharathanatyam,A grade in Folk Dancein the MG university youth festival and Bharathanatyam-1st,Folk Dance-1st,Kuchipudi-2ndin the college youth festival
- AnjanaKK:ProficiencyPrize,Meenakshi Ramakrishnan endowment,RevMsgrAugustineMaveli,Essay Writing Hindi-3rd,Sahithya prashnothari-1st
- Sneha Joseph:ProficiencyPrize,Tessy Joseph Endowment
- Arshitha,Punnya,Ancy,AnjanaNair:Relay Race II
- Punnya:Candle race II
- Rosmy Elizabeth PW:Tessy Joseph Endowment Prize
- AnaghapSurendran:Sr.Michaelina Endowment Prize &Passed B+ exam of Ncc



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://npTEL.ac.in/moc/>



This certificate is awarded to
BINVIYA BASHEER
BINVIYAS BASHEER (21)
MAMUNTHALAI
KANNIYAKUMAR
ERNAKULAM
INDIA
846110
PIN: IND 0861481209

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
<60-89	Not recommended for Certification
<40	No Certificate



No. of credits recommended by NPTEL: 2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort. Scanned.

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://npTEL.ac.in/moc/>



This certificate is awarded to
RINI SIMON
BINVIYAS BASHEER (21) PERUMUNTHALAI
MAMUNTHALAI
KANNIYAKUMAR
ERNAKULAM
INDIA
846110
PIN: IND 0861481209

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
<60-89	Not recommended for Certification
<40	No Certificate



No. of credits recommended by NPTEL: 2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort. Scanned.

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
BINVIYA BASHEER
for successfully completing the course
Developing Soft Skills and Personality

with a consolidated score of **92** %

Online Assignments | 24.67/25 | Proctoral Exam | 67.5/75

Total number of candidates certified in this course: 15357

Prof. Rajesh Marathe
Chairman, Centre for Continuing Education
of IITK

Aug-Oct 2019
(8 week course)

Prof. Satyaki Ray
NPTEL Coordinator
of IITK

Indian Institute of Technology Karpur

swayam
Digital Education

Ref No: NPTEL191012256173001127

To validate and check scores: <https://npTEL.ac.in/moc/>

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
RINI SIMON
for successfully completing the course
Developing Soft Skills and Personality

with a consolidated score of **94** %

Online Assignments | 24.67/25 | Proctoral Exam | 69/75

Total number of candidates certified in this course: 15357

Prof. Rajesh Marathe
Chairman, Centre for Continuing Education
of IITK

Aug-Oct 2019
(8 week course)

Prof. Satyaki Ray
NPTEL Coordinator
of IITK

Indian Institute of Technology Karpur

swayam
Digital Education

Ref No: NPTEL191012256173001160

To validate and check scores: <https://npTEL.ac.in/moc/>