

Chemmanthoor, Punalur, Kollam Kerala-691305 Telephone: 0475 2222635, 0475 3258895 Email: sncpunalur@gmail.com, Website: www.sncpunalur.in

Third Cycle NAAC Accreditation 2022

CRITERION 2

Teaching-learning and Evaluation

2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

EXPERIENTIAL LEARNING, PARTICIPATIVE LEARNING AND PROBLEM-SOLVING METHODOLOGIES ADOPTED IN SCIENCE SUBJECTS

National Science Day Celebration

The Day is being celebrated every year in order to spread a message about the importance of science in the daily life of people. The main objective behind celebrating National Science Day is to bring science to the forefront and thus inculcate scientific temper and take pride in the scientific achievements of the country. National Science Day is celebrated in India on 28th February every year to mark the discovery of the Raman Effect by the Indian physicist Sir Chandrasekhara Venkata Raman on 28th February in 1928.

In 2019, National Science Day Celebrations 2019 was organised by the Post Graduate Department of Chemistry, with the financial support of Kerala State Council for Science Technology and Environment and DST, Govt. of India. The main theme of NSD Celebrations 2019 was 'Communicating Science for All'. The programme was conducted on 25th, 26th and 27th February 2019.



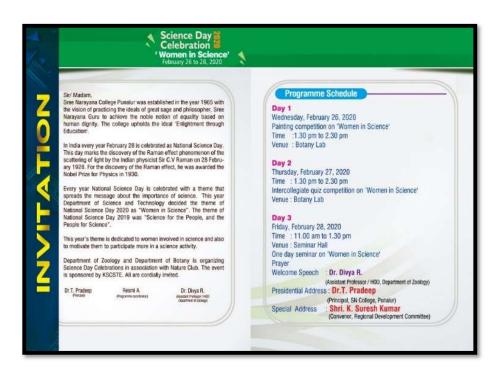
Inauguration of science day exhibition



Inauguration of science day exhibition

National Science Day Celebration 2020 was organised by the Department of Zoology under the sponsorship of Kerala State Council for Science Technology and Environment (KSCSTE) from 26-02-2020 to 28-02-2020. The theme of Science Day 2020 was 'Women in Science'. The chief guest of the function was Dr. R. Sindhu, Scientist, CSIR National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram.





Brochure of science day seminar



Newspaper cuttings related to the seminar of science day celebration

Science Exhibition 2016

Science exhibitionorganized by the college on 29.02.2016 related to Science Day. The programme was inaugurated by the Principal, Dr. G Jayasenan.



Science exhibition organized by the college on 29.02.2016 related to Science Day



Inauguration of Science exhibition



Students participated in science exhibition



Students explaining about their science exhibition items

Seminars and Workshops

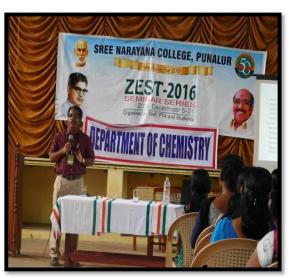
Seminars and workshops are regularly conducted by the college .**ZEST 2016**, a seminar series was organised during 2016-2017 by all the departments as part of Golden Jubilee celebration. It wassponsored by the IQAC and PTA in connection with the golden jubilee celebrations of the college.Both the teachers and the students wholeheartedly participated in the seminar series.

One day seminar organised on behalf of the multidisciplinary seminar series ZEST-2016 bythe Department of Chemistry. Dr .I G Shibi (TSG member State project directorate, RUSA Govt of Kerala) who delivered the speech on "Introduction to computer aided drug design" and Dr.VasanthakumarSambasivan, Former HoD, Department of Chemistry SreeNarayana College, Kollam who delivered a wonderful lecture on the topic "The standard model and the Recent Rousers Findings" were the resource persons.









ZEST 2016, a seminar series was organized during 2016-2017

Cognizance 2.O(online) a second edition of the annual multidisciplinary webinar series organized by IQAC in association with various departments of the college with the theme 'Education for Existence' during 2020-2021.



Brochure of Cognizance 2.O(online) a second edition of the annual multidisciplinary webinar series organized by IQAC

Veena Endowment Programme

A one day seminar organised by the Department of Chemistry in connection with Prof. Veena Endowment of SreeNarayana College Punalur. Dr .I G Shibi (TSG member State project directorate, RUSA Govt of Kerala) who delivered the speech on "Introduction to computer aided drug design" was the Resource person. Lt. Dr.Arun. V, (HOD, Department of Chemistry, S.N. College, Punalur)alsodelivered a lecture on the topic "Software's in Chemistry". The endowment was given to Amal C. S. Who secured First Rank in B.Sc. Chemistry, University of Kerala.



"VEENA" endowment was given to Amal C. S.
Who secured First Rank in B.Sc. Chemistry, University of Kerala.

Seminar on "Join the Race to Make the World BetterPlace"

As part of the World Eenvironment Day ccelebration, the Department of Zoology conducted National Seminar on "Join the Race to Make the World Better Place" sponsored by Kerala State Council for Science, Technology and Environmenton17.06.2016 .Dr. T. Sabu , Program Director, Center for Environment and Development, Thiruvananthapuram who handled the first technical session on "Join the Race to Make World Better Place" and Prof. E. Kunhikrishnan, Rtd. Professor & HOD, Department of Zoology University College, Thiruvananthapuram who handled the topic "Wildlife Conservation and Climate Change" were the Resource persons.

As part of International Ozone Day, Oneday *National Seminar* on "Ozone and Climate: restored by a World United" sponsored by *Kerala State Council for Science, Technology and Environment* was organised by the Department of Zoology on 30.09.16.



Brochure of National Sseminar on "Join the race to make the world better Place" conducted by Department of Zoology

A one day National Seminar on, "Intellectual Property Rights" sponsored by *PIC-Kerala* and *Kerala State Council for Science, Technology and Environment* was held on 22.02.2017. The focal theme for the seminar included Patent for inventions, Trademarks, Industrial designs and Geographical indications, Copyrights etc.





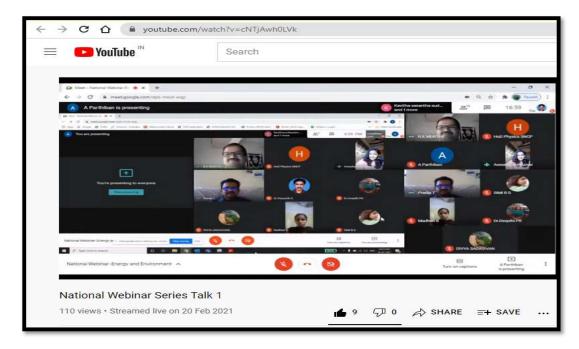
A one day National Seminar on, "Intellectual Property Rights" sponsored by PIC-Kerala and Kerala State Council for Science, Technology and Environment.

Seminar on Energy and Environment by the Department of Physics

A four-day webinar series organised by the Department of Physics on 20th February 2021. Almost 86 participants (PG and UG) from various colleges attended the webinar.



Brochure of Four-day webinar series organized by the Department of Physics



First webinar presentation in the four-day webinar series organized by the Department of PhysicS

Field, Industrial and Institute visitsA Field visit for the final year zoology students to Mysore museum on 15.02.2018. The group comprised of three teachers and 30 students. It was an enlightening experience of the students



Field visit for the final year zoology students to Mysore museum

A six day Institute and Field visit organised by the Department of Zoology for the final year students from 12/11/19 to 17/11/19.





Six day Institute and Field visit organised by the *Department* of Zoology for the final year students

Matsyafed prawn Hatchery and Research Centre, Thirumullavaram





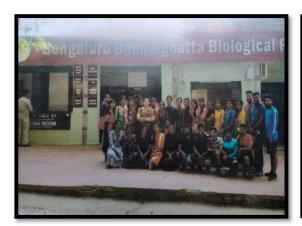
Field visit organised by the Department of Zoology for the final year students At Chamaraja zoological park at Mysore

The team visited Matsyafed Prawn Hatchery and Research Centre, Chickmanglore-Mullayanagiri, Zpoint, Bababudangir, Mysore Zoo, Mysore Palace, Ranganathittu Bird Sanctuary,:LalBagh Botanical Garden, ViswsarayaIndustrial and Technical Museum, and Hogenakkal. The students got opportunity to understand the various activities done at the institute and to study about the various flora, fauna and ecosystems of the visited places.





Six day Institute and Field visit organised by the Department of Zoology for the final year students





Field visit of Department of Zoology for the final year students at Bengaluru Biological Park





Field visit of Department of Zoology for the final year students at Bengaluru and Hogenekkal

An Institute and Field visit organised by the Department of Zoologyfor the final year students on 15/01/21. The destination was **Matsyafed prawn Hatchery and Research Centre**, **Thirumullavaram**, Kollam. The programme gave students the opportunity to understand the various activities done at the institute.



Field visit of Zoology students at Matsyafed and Research Centre, Thirumullavaram

An Industrial visit to Kerala Agro Industries Corporation Ltd, Punalur conducted by the Department of Zoology on 22 October 2018. The Kerala Agro- Industries Corporation Ltd (KAIC), a premier organization in the agricultural sector, was incorporated in the year 1968 jointly by the Government of India and Government of Kerala, with the object of promoting Agro based Industries in the State of Kerala, for the production of farm equipment, Machinery and Implements required for the development of agriculture in the State and to cater to the needs of the farming community. The objective of the visit was to analyse the use of modern technology in agriculture, setting up of agro based industries, waste management solutions etc.



Industrial visit to Kerala Agro Industries Corporation Ltd, Punalur

Industrial visit to KMML Chavara, Kollam

An Industrial visit to the Kerala Minerals and Metals Ltd. (KMML) Chavara, Kollam was organised by the Department of Zoology on 14th October 2017. 56 students with 3 teachers went to KMML with an aim to analyse the production, processing and working of KMML. The objective of the trip was to get to know more about the efficient use of minerals and metals. KMML offers a wide range of products for quality conscious customers.



An Industrial visit to the Kerala Minerals and Metals Ltd. (KMML) Chavara, Kollam



An Industrial visit to the Kerala Minerals and Metals Ltd. (KMML) Chavara, Kollam

Institute and Field visit

An Institute and Field visit to CTCRI (Central Tuber Research Institute), Sreekaryam on 31/08/2019. The students got opportunity to familiarize with the various research activities done at the institute



An Institute and Field visit to CTCRI (Central Tuber Research Institute), Sreekaryam

Field trip and Institute visit organised by the Department of Zoology to the Art Gallery, Chithralayam Museum, Thiruvananthapuram and Kerala University Research Centre and Instrumentation Wing, Karyavattom Campus, Thiruvananthapuram.



Field trip and Institute visit organised by the Department of Zoology to the Art Gallery,
Chithralayam Museum, Thiruvananthapuram

A one-day visit to Thekkady Wildlife Sanctuary and Parunthumpara Alpine Ecosystem organized by Department of Zoology on 01/02/2020.



One-day visit to Thekkady Wildlife Sanctuary and Parunthumpara Alpine Ecosystem organized by Department of Zoology



One-day visit to Thekkady Wildlife Sanctuary and Parunthumpara Alpine Ecosystem organized by Department of Zoology



M.Sc Chemistry students visited Titanium Product Limited, Thiruvananthapuram



MSc Chemistry students visited Department of Applied Chemistry, Cochin University of Science and Technology

Home Visit

Teachers from the Department of Physics visited the students of the final year at their home and discussed their participation in online classes with their parents. This activity helped the teachers to know more about the difficulties and challenges faced by the students during the pandemic and online classes and also to implement new methods and ways by which they could help the students to improve their studies and to give their mental support



Home visit program: Teachers from the Department of Physics visited the students of the final year

Project based learning:

As part of curriculum, students are assigned to do project works in their final semester. This encourages the students to get a wide exposure in their subjects. The P.G. students are given opportunity to work with eminent scientists at centers like VSSC...



 $\label{lem:constraint} \textbf{Project work of MSc Chemistry student with the collaboration of Titanium \, LTD.}$

STUDIES ON HIGH TEMPERATURE RESISTANT SILICON ADHESIVES

Dissertation submitted to the University of Kerala in the partial fulfilment of the Degree of Master of Science in Chemistry (635) BY

DILSHA P.V (Reg.No: 63517133005)

DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE PUNALUR

SEPTEMBER 2019

Under the Guidance of

Dr. Indulekha K

SHI) ISTO

VIKRAM SARABHAI SPACE RESEARCH CENTRE

THIRUVANANTHAPURAM

Project work of MSc Chemistry student with the collaboration with VSSC

SOLUTE CHEMISTRYY OF CAUVERY RIVER BASIN: DISSOLVED LOAD SOURCES AND CONTROLLING FACTORS

Dissertation Submitted to the University of Kerala In the partial fulfillment of the Degree of Master of Science in Chemistry

RESMI R

Reg.No: 63517133010



DEPARTMENT OF CHEMISTRY

SREE NARAYANA COLLEGE PUNALUR

SEPTEMBER 2019

Under the Supervision of

Mr. BADIMELA UPENDRA

SCIENTIST

HYDROLOGICAL PROCESSES GROUP



NATIONAL CENTRE FOR EARTH SCIENCE STUDIES AKKULAM, THIRUVANATHAPURAM

Field visit of Department of Zoology for the final year students at Bengaluru Biological Park



Project work of MSc chemistry student

EXPERIENTIAL LEARNING, PARTICIPATIVE LEARNING AND PROBLEM-SOLVING METHODOLOGIES ADOPTED IN COMMERCE AND ARTS SUBJECTS

Webinars and Workshops

Seminar organized by the Department of English on Women's Day

As part of the Women's Day celebrations, the Department of English and the IQAC of Sree Narayana College Punalur, jointly organized a webinar on the topic **Protecting the Dignity of Women: Constitutional perspectives and Role of Judiciary** on March 16, 2021. Reputed lawyer and academician Sri. Advocate Bhuvanendran Nair V was the chief guest of the webinar.



Brochure of the webinar on the topic "protecting the Dignity of Women: Constitutional perspectives and Role of Judiciary" organized by department of English



Webinar presenting by the resource person related to "Protecting the Dignity of Women:Constitutional perspectives and Role of Judiciary"

One Day Workshop Development of Women Entrepreneurs

The District Industries Centre and ED cluband Department of Commerce jointly organized a one day wokshop for promoting **Women Entrepreunership instincts** on 7th May 2019. The programme was inaugurated by Dr.T.Pradeep. A work shop on ornament making was conducted and it was led by SmtAmbily V, Trainer of ManavaVibhavaSheshi. The vote of thanks proposed by Ms. Ganga M R, ED club coordinator.



A one day workshop for "promoting Women Entrepreneurship instincts" organized by

The District Industries Centre and Entrepreneurship Development club and Department of Commerce

Webinar on Fundamental of research in commerce- Department of Commerce

An online webinar on the topic "Fundamentals of Research in Ccommerce" organized by the Department of Ccommerce in association with IQAC on 17 December 2020. The webinar was held through the online platform, Google Meet.



Brochure of online webinar on the topic "Fundamentals of Research in Ccommerce" organized by the Department of Ccommerce



Principal in charge inaugurating an online webinar on the topic "Fundamentals of Research in Ccommerce" As part of the second edition of Cognizance , all the departments organised webinars related with the pandemic situation. It imparted awareness and consciousness on Covid 19 among the listeners.



Brochure of webinar organaized by Commerce department n the topic of creative enterpreneurship during covid-19



Brochure of webinar organaized by malayalam department related the reading habbit enhancement

Talent Hunt Programme

A talent hunt programme, for selecting best manager was organized by the Department of Commerce in association with GIMS (Global Institute of Management, Kochi). The final year B.Com.students Muhammad Rafi Rawther and MeghaJohn were the winners. They were given cash prize.



Muhammad Rafi Rawther and Megha John were the winners of talent hunt program

Webinars on Cultural Disability Studies

The Department of English in association with the IQAC, Sree Narayana College, Punalur jointly organized a national webinar on Cultural Disability Studies on 26/12/20 at 10 am. It was organized on behalf of the multidisciplinary seminar series **COGNIZANCE-2020** and was the third webinar in this series. The resource person of the occasion was Dr. Boopathi P, who is one of very few scholars in the area of Disability Studies in India. Dr. Boopathi P, is an Assistant Professor in the Department of English Studies, School of Social Sciences and Humanities, Central University of Tamil Nadu.





National webinar on Cultural Disability Studies organized by department of English

Workshop on Goods and Services (GST) "A Birds eye view" -Department of Commerce organized a national webinar on Cultural Disability Studies on 1st September 2019 at 10 AM in seminar hall. CMA.Shibu Gopi was the chief guest and resource person. The Principal Dr.T Pradeep presided the workshop. After his presentation, an interactive session with the participants was conducted.



Workshop on Goods and Services (GST) "A Birds eye view" -Department of Commerce organized a national webinar on Cultural Disability Studies



Inauguration of the Workshop on Goods and Services (GST) "A Birds eye view"

Seminar on Entrepreneurship Development

Development of English organized a one-day seminar on **Entrepreneurship Development** on 9 November, 2018. The resource person was P Prasennan, Retd. Associate Professor, S, N College, Punalur. The new changing face of our economy and it's challenges were mentioned in the seminar. The resource person familiarised the new entrepreneurship developments to the students.



Technical session of the one-day seminar on Entrepreneurship Development

Three Day Workshop on Craft Works

As part of vocation during the vacation; Department of English proudly conducted a Three- Day Workshop on Craft Works for the U.G. students. Twenty-two students from various departments enthusiastically participated in the programme.



Brochure of Three- Day Workshop on Craft Works for the U.G. students



Brochure of Three- Day Workshop on Craft Works for the U.G. students

Seminar organised by Department of Commerce (ZEST)

One day seminar hosted by the Department of commerce on behalf of the multidisciplinary seminar series **ZEST-2016**organised by the IQAC and PTA in connection with the golden jubilee celebrations of SreeNarayana College Punalur on 6th December 2016..



Inauguration of One day seminar hosted by the Department of commerce on behalf of the multidisciplinary seminar series ZEST-2016.

Field, Institute visits;

Field Trip by Department of Commerce

A field trip was organized by the Department of Commerce for first semester students to Thenmala Eco tourism for making them aware of environmental protection. All the 69 students and 3 teachers participated.



Fieldtrip conducted by Department of commerce at Thenmala



Field trip conducted by Department of English at Thenmala

Value added, Bridge and Certificate courses.

Certificate Course in Communicative English

A 45 days Certificate Course in Communicative English is offered by the Department of English for the first year students in every academic. During the pandemic period, Online classes of one and a half hours duration were conducted twice a week.

III. Science and Non science Departments

Career Guidance Programme for Civil Service aspirants

A career guidance programme was organised by the Department of Physics in association with Vedhik IAS academy on 17/02/2021 at College Seminar Hall. First year students admitted during the academic year 2020-21participated in the program. Resource persons from the academy motivated the students. After the program, Vedhik academy offered a scholarship for one of the students from the participants.



Orientation class on career guidance programme was organized by the Department of Physics in association with Vedhik IAS academy





Orientation class on career guidance programme was organised by the Department of Physics in association with Vedhik IAS academy

Women Self Defence Training Programme

A self defence programme for girl students was organised by the Counselling cell of our college in association with Kerala Police, Punalur Police station on 2nd March 2019. The Principal Dr. T. Sasidharan presided the meeting. The girl students were actively participated in the training.



Inauguration of Self-defense programme for girl students was organised by the Counselling cell of our college in association with Kerala Police

Club activities:

One Day Seminar - Entrepreneurship club

One day seminar organized by the Department of Commerce and Entrepreneurship club of the college in association with District Industries Centre, on the topic "Budding young Entrepreneurs", on 19th March 2018. The seminar was inaugurated by Dr G Raju, Head of the Department of Commerce, University of Kerala.



Inauguration One day seminar organized by the Department of Commerce and Entrepreneurship club

Radio club diffuses entertainment, information and education across the campus. The club functions with PSC questions, thought for the day, Health tips etc. As part of club activities, quiz programs are organized every year.



Members of radio club announcing thought for the day

Laboratories

The lab facilities always caters the students' exposure in their concerned subjects. IT and Languagelabs are equipped with computers.







Science Lab equipment



Computer Lab



Language Lab



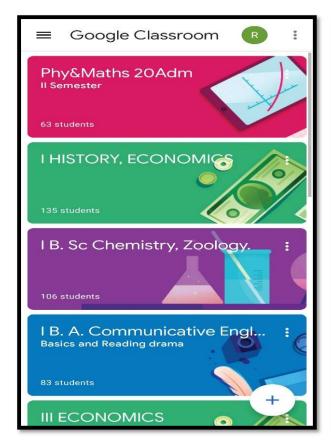
Language Lab

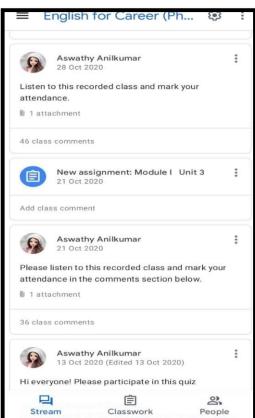
Online platforms

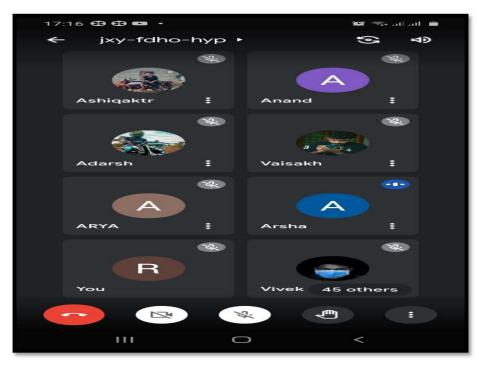
Teaching faculties of all departments conduct online classes to meet the students academic needs. **Google meet, Google Classroom**etc are effectively utilised for delivering classes and distributing reference materials.



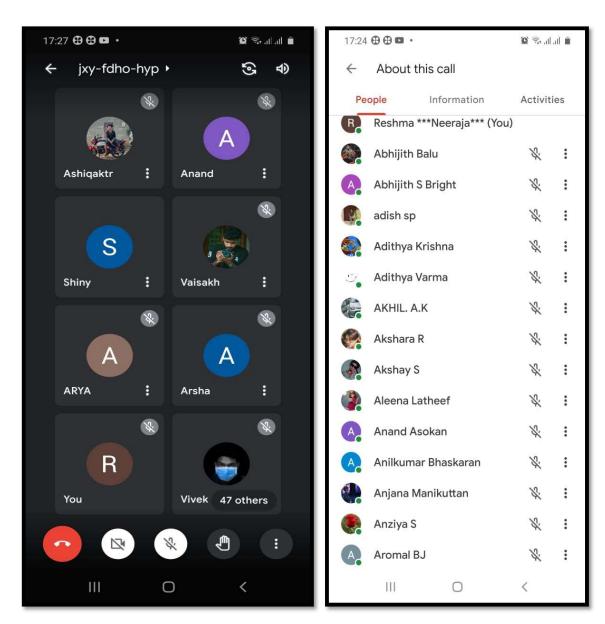
Various departments conducting online classes





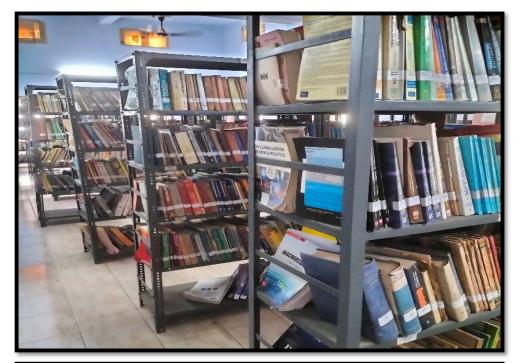


Various departments conducting online classes



Various departments conducting online classes

Library as Resource facilitator:





Stack room, General library



Periodicals in General library