



# Holy Cross College (Autonomous)

Nagercoil – 629 004

Affiliated to Manonmaniam Sundaranar University, Tirunelveli  
Nationally Accredited with A+ Grade (CGPA 3.35) by NAAC IV Cycle  
An ISO 9001:2015 Certified Institution

SSR  
2019-2020  
to  
2023-2024

## 2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution

2023 -2024

### Department of Chemistry Action Plan 2023 - 2024

Month	Name of the activity	Description of the activity	Name of the course and course code based on activity	Expected outcome
June	Bridge course for I Year students	Basic concepts in Chemistry	-	Gain the basic knowledge in chemistry
	Orientation Program	Code of Conduct and Academic calendar	-	Know the values and rules to be followed within the college
	Talk	Responsibilities of students	-	Understand the responsibilities of students
July	Business meeting	Election of office bearers	-	-
	Ms.Kurian's Endowment lecture	Analytical Chemistry	Inorganic Chemistry I CC2052	Learn to minimize errors in practicals
	Skill Training Programme	Chemicals of everyday use	Value Added Course Chemicals of everyday use	Inculcate entrepreneurial skill
	Model Making competition	Molecular Symmetry and Point Groups	Thermodynamics and group theory PG2032	Analyse the symmetry and point group of molecules
	Alumnae Chapter Meet	-	-	-
August	Seminar	Design Thinking	-	Inculcate innovation and research aptitude among students



## NAAC V Cycle Self Study Report (SSR)

	Debate (Chem Explorer Club )	Importance of Traditional Chemistry over Green chemistry	Green Chemistry CC2042	Know the importance of Green Chemistry
	Poster presentation (Chemistry Association )	Green chemistry and sustainable development	Green Chemistry CC2042	Develop Environmental consciousness in students
September	Research Colloquium	Nano chemistry	Nano and Polymer Chemistry CC2033	Gain research knowledge on Nano chemistry
	International Seminar	Advances in Chemistry	Nano and Polymer Chemistry CC2033	Update knowledge in new topics in chemistry
	Industrial Visit	Aavin Milk Plant	Diary Chemistry VAC204	Know the method of milk processing
	Celebration of World Ozone day	Poster , Essay writing , Mime and Drawing Competitions	Green Chemistry CC2042	Develop the conscious of Conservation of ecology
	National Nutrition week celebration (Sep 1 to 7) Extension Activity	Awareness talk on "Importance of Nutritional Food" and supply of Nutritional food to school students	Food Science VAC201	Create awareness on the need of intake of nutritious food to lead a healthy life
October	World food day (October 16)	Invited talk on "Food and its impact on health "	Food Science VAC201	Promote awareness on food and its nutrition
	Study Tour	Visit important industries	-	Gain experiential knowledge



## NAAC V Cycle Self Study Report (SSR)

	Alumnae Chapter Meet	-	-	-
December	Seminar (Collaboration with IIC)	Design Thinking and Innovation	-	Inculcate innovation and research aptitude among students
	Association meeting (In commemoration of National Pollution Prevention Day celebration (Dec 2 )	Awareness talk on "Alternatives of Chloro Fluoro Carbons (CFC)" and Oath taking	Green Chemistry CC2042 Advanced Topics in Chemistry .PG2033	Impart environmental consciousness
	Skill Enhancement Programme	Chemicals of everyday use	Value Added Course - Chemicals of everyday use	Inculcate entrepreneurial skill
	Alumnae Chapter Meet	-	-	Share the knowledge and skill with the present students
	Christmas Visit	Joy of Sharing	-	Create Societal Consciousness and Holistic development
	Extension Activity	Awareness talk on "Importance of Nutritional Food" and supply of Nutritional food to school students	Food Science VAC201	Create awareness on the need of nutritious food and healthy life style
January	Seminar	Role of Artificial intelligence in chemical industry	-	Gain knowledge on artificial intelligence
	Hands on training	Blood group identification	Clinical Chemistry	Gain knowledge on various blood grouping
	International Seminar	Materials Chemistry	Physical Chemistry CC2053	Activate critical thinking skill and research aptitude



## NAAC V Cycle Self Study Report (SSR)

	Hands on training	IR spectroscopy	Organic Chemistry UG2061	Develop cognitive and technical skill
	Intradepartmental Poster Presentation competition (Chemistry Association )	Green chemistry and sustainable development	Green Chemistry CC2042	Develop environmental consciousness
	National Girl Child day celebration – Exhibition	Women achievers in education / science/ sports	-	Able to empower oneself
	Workshop (MoU)	Water soluble Paints	Applied Chemistry CNM201	Gain knowledge on preparation of paints
	Industrial Visit	Aavin Dairy Products Ltd	Dairy Chemistry CU232SE3	Enhances the ability of preparing dairy products
February	National Science day celebration - Science talent Show(Collaboration with IIC)	Intradepartmental Exhibition and competitions	-	Enhances the Research aptitude
	Intradepartmental Competition- Chem Explorer Club	Cultural Competition	-	Acquire creativity and competency skills
	Alumnae Chapter Meet	-	-	Engage the expertise of the institution in their professional lives
	National Periodic table day celebration	Competition on preparing periodic table (Rangoli)	-	Acquire indepth knowledge on periodic table
	Training Programme	Analysis of food adulterants	Food Science VAC201	Create awareness on food adulteration
	Industrial Visit	National Institute for Interdisciplinary Science and	Analytical Chemistry	Gain knowledge on instrumental analysis and research aptitude



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		Technology, Thiruvananthapuram		
March	Women's day celebration – Competitions on women issues	Drawing, skit and Poster Presentation	-	Acquire team spirit and awareness on women empowerment
	Industrial Visit	Travancore Titanium Products , Thiruvananthapuram	-	Gain knowledge on synthesis and applications of Titanium Products
	Invited Lecture	Women's Health	-	Understand the importance of health and healthy habits
	Debate (Chem Explorer Club )	Traditional Chemistry Vs Green chemistry	Green Chemistry CC2042	Kindle the thought process on alternative sustainable chemicals
	Lab to land programme	Skill training on "Chemicals of everyday use"	Value Added Course	Impart societal consciousness and entrepreneurial skill

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## NAAC V Cycle Self Study Report (SSR)

**2022-2023**

### Department of Chemistry

#### Action Plan 2022 - 2023

Month	Name of the activity	Description of the activity	Name of the course and course code based on activity	Faculty in charge	Expected outcome	No. of Beneficiaries
July	Business meeting	Election of office bearers	-	Dr. S. Lizy Roselet and Sr. Francy	-	160
August	Research Colloquium	Knowledge exchange	-	Dr. Sheeba Daniel	Gain knowledge on recent research trends	50 scholars
	Endowment lecture	Spectroscopy	Organic Chemistry CC2051	Dr. S. Lizy Roselet and Sr. Francy	Apply spectroscopy in analyzing organic compounds	80
	Industrial Visit	Pharmaceutical	Pharmaceutical Chemistry (Elective) CC2032			42 (II U.G Students)
September	National Seminar	Advances in Chemistry	General Chemistry-III CC2031	Dr. Anitha Malbi and Dr. Shirly Treasa	Gain knowledge on new techniques in chemistry	180
	Association Meeting	Construction of periodic table	Inorganic Chemistry CC2052	Mrs. Vijila	Remember the position of different elements in periodic table	180
October	Intercollegiate Quiz	Quiz		Dr. Gladis & Dr. Sheeba		250

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	IIC Seminar	Innovation in Chemistry		Dr. S. Lizy Roselet and Sr. Francy		160
December	Association Meeting	Professional Ethics		Sr. Francy and Dr. Lizy		120
	Endowment Lecture	Green Techniques in Chemistry	Green Chemistry CC2042	Dr. Ajith Sinthuja	Gain knowledge on Green Chemistry	180
	Christmas Visit	Joy of Sharing		Dr. Christabel Shaji & Mrs. Vijila	Learn to help others	180
	Lab visit	Lab visit to St. Xavier's Nursing College	Clinical Chemistry	Ms. Deva Vijila & Sr. Francy		IUG
	Republic day Celebration	Contribution of Science and Technology towards National development		Dr. S. Lizy Roselet and Sr. Francy		160
	National Female day celebration	Women achievers in education / science/ sports		Dr. S. Lizy Roselet and Sr. Francy		160
February	Science talent Show	National Science day celebration		Dr. S. Lizy Roselet and Sr. Francy		160
March	Endowment Lecture	Women's day celebration		Dr. S. Lizy Roselet and Sr. Francy		160

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# NAAC V Cycle Self Study Report (SSR)

## 2021- 2022

### Department of Chemistry Departmental Plan 2021 - 2022

Month	Name of the activity	Description of the activity	Name of the course and course code based on activity	Faculty in charge	Expected outcome	No. of Beneficiaries
June	Business meeting	Election of office bearers	-	Dr. S. Lizy Roselet and Sr. Franey	-	160
July	Research Colloquium	Knowledge exchange	-	Dr. Sheeba Daniel	Gain knowledge on recent research trends	50 scholars
	Endowment lecture			Dr. G. Leema Rose and Dr. Sheeba Daniel		
	Industrial Visit	Pharmaceutical	Pharmaceutical Chemistry (Elective) CC2032			42 (II U.G Students)
	E-Quiz	E-Quiz on "Nobel Lauretes in Chemistry"	-	Dr. S. Lizy Roselet and Sr. Franey		180
August	Seminar			Dr. Ajith Sinthuja and Dr. Shirly Treasa		
	Celebration of Birthday of Joseph Priestly	Discovery of Oxygen – Importance of Oxygen during Pandemic COVID - 19		Dr. S. Lizy Roselet and Sr. Franey		160





## NAAC V Cycle Self Study Report (SSR)

September	Seminar			Dr. Anitha Malbi and Ms. Delma		
	Endowment Lecture	World Ozone Day Preservation of the Ozone layer – Our responsibilities and duties		Dr. S. Lizy Roselet and Sr. Francy		160
October	Seminar			Dr. Gladis Latha and Ms. Deva Vijila		
	Video contest and drawing competitions	Renewable energies and climate change		Dr. S. Lizy Roselet and Sr. Francy		160
December	Seminar			Sr. Francy and Dr. Sheeba Daniel		
	Research Colloquium	Knowledge exchange	-	Dr. Sheeba Daniel	Gain knowledge on recent research trends	50 scholars
January	Seminar			Dr. Lizy Roselet and Dr. Christabel Shaji		
	Lab visit	Lab visit to St.Xavier's Nursing College 27.03.2021	Clinical Chemistry	Ms. Deva Vijila		UG
	Republic day Celebration	Contribution of Science and Technology towards National development		Dr. S. Lizy Roselet and Sr. Francy		160



## NAAC V Cycle Self Study Report (SSR)

	National Girl Child day celebration	Women achievers in education / science/ sports		Dr. S. Lizy Roselet and Sr. Francy		160
February	Science talent Show	National Science day celebration		Dr. S. Lizy Roselet and Sr. Francy		160
March	Endowment Lecture	Women's day celebration		Dr. S. Lizy Roselet and Sr. Francy		160

*Leema Rose*  
28/5/22

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2020 -2021

Department of Chemistry Departmental Plan 2020-2021

Month	Name of the activity	Description of the activity	Name of the course and course code based on activity	Faculty in charge	Expected outcome	No. of Beneficiaries
June	World Environment Day	E-Quiz on "World Environment Day" 05-06-2020	Advanced topics in Chemistry PG 1733 Green Chemistry CC 1754	Dr. Sheeba Daniel	Awareness on environment	All U.G & P.G students, staff members and research scholars
	E-Quiz	E-Quiz on "Chemistry in Medicine" 11-06-2020	Advanced topics in Chemistry PG 1733	Dr. Sheeba Daniel	Gain knowledge about Medicinal Chemistry	All U.G & P.G students
	International Webinar	International Webinar on "Optical Spectroscopy" 19-06-2020	Research Methodology PG 2024	Dr. S. Ajith Sinthuja and Dr. Sheeba Daniel	Develop research aptitude and scientific skills	All U.G & P.G students, Research scholars (including other universities)
	E-Quiz	E-Quiz on "Dairy Chemistry" 24-06-2020	Dairy Chemistry CC1732	Dr. R. Gladis Latha and Mrs. L. Deva Vijila	Gain knowledge about Dairy processing techniques	Students, Research Scholars and Faculty,



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July	E-Quiz	E-Quiz on "Chemistry in Everyday Life" 21-07-2020	Value added Courses	Dr. S. Ajith Sinthuja		All U.G & P.G students
August	Hiroshima & Nagasaki Disaster Day E-Competition	1. Poster presentation 2. Pencil drawing 3. Slogan writing 06-08-2020 to 09-08-2020		Sr. K. Francy and Dr. Sheeba Daniel	Awareness on impact of nuclear wastes and weapons on environment	All U.G & P.G students
	Celebration of Antoine L. Lavoisier's Birthday	Essay writing on scientific contributions of Antoine L. Lavoisier 26-08-2020		Dr. M. Anitha Malbi and Dr. S. Lizy Roselet	Promote scientific attitude and scientific temper in students	All U.G & P.G students
September	World Ozone Day	E-competitions Drawing and poster presentation 16.09.2020		Dr. R. Gladis Latha & L. Deva Vijila	Awareness on ozone depletion and global warming	All U.G & P.G students



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October	E-Quiz	E-Quiz on Nanotechnology 9.10.2020		Dr. S. Ajith Sinthuja	Gains knowledge on Nanotechnology	All U.G & P.G students including other colleges
	Birthday of Dr. A.P.J. Abdul Kalam 17.10.2020	Online oral presentation competition Achievements of Dr. A.P.J. Abdul Kalam in Science and Technology" Health 17.10.2020		Dr. Y. Christabel Shaji & Dr. Shirly Treasa		All U.G & P.G students (12)
	Mole Day	E-Quiz on Mole Concept 29.10.2020		Dr. G. Leema Rose and Sr. K. Francy	-	All U.G & P.G students
November	Plan for new PG lab	-	-	-	Under Construction	
	International webinar on IPR	International webinar on Role of IPR 28-11-2020		Sr. K. Francy and Dr. Sheeba Daniel	Gain innovation and entrepreneurial skills	All U.G & P.G students Faculty

*Leema Rose*  
28/11/22

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2019-2020

Department of Chemistry  
Departmental Plan 2019-2020

Month	Name of the activity	Description of the activity	Name of the course and course code based on activity	Faculty in-charge	Expected outcome	No. of Beneficiaries
July	Association meeting	Oral & Poster presentation Competition	Research Methodology PG1724	Mrs. L.Deva Vijila & Dr. S.Lizy Roselet	Gain research aptitude and competency	All U.G and P.G students
	Industrial Visit	Nanjil Dairy Plant-Mulagumoodu	Dairy Chemistry	Dr.M.Anitha Malbi & Mrs.L.Deva Vijila	Gain skill in Experiential learning	42 (II U.G. students)
	Lab to Land	Making day today articles at Kandavilai Village	Value Added Course	Dr.M.Anitha Malbi and Sr.K.Francy	Gain skill in Experiential and experimental Learning	45(III U.G. Students)
August	Association meeting	Guest Lecture	Industrial Chemistry CC1742	Mrs. L.Deva Vijila & Dr. S.Lizy Roselet	Gain knowledge about industrial applications of Chemistry	All U.G & P.G students
	Guest Lecture	Talk on Dental Care	Certificate Course	Dr.R.Gladis	Awareness on Dental wellness	All U.G & P.G students
	Endowment Lecture	Talk on Memory skill	Organic Chemistry-III	Dr.G.Leema Rose and Dr.R.Gladis Latha	Enhance the memory power of students	45(I U.G. Students)



## NAAC V Cycle Self Study Report (SSR)

	Endowment Lecture	Talk on Group theory	Physical Chemistry-III (PG1732)	Dr. Y. Christabel Shaji and Dr. S. Lizy Roselet	Gain knowledge about Group theory and its applications	All P.G. students
	Guest Lecture	Talk on Pregnancy and Prenatal care	Certificate Course	Sr.K.Francy and Dr.R.Gladis Latha	Awareness on Women health	45(I U.G. students)
September	Association meeting	Competition – Preparation of eco-friendly day-to-day articles	Green Chemistry	Mrs. L.Deva Vijila & Dr. S.Lizy Roselet	Create environmental awareness	All U.G. & P.G students
	International/National Seminar	Advances in Material Science	Green Chemistry-CC1754 Industrial Chemistry-CC1742	Dr.R.Gladis Latha & Dr. S.Lizy Roselet	Create awareness on research	All U.G. & P.G students
	Educational tour and Industrial Visit	Coachin(Fertilizer industry) and Veegaland		Sr.K.Francy & Dr. S.Lizy Roselet	Recreation and gain knowledge about synthesis of fertilizer	III U. G & II P.G.students
October	Association meeting	Talk by Research Scholar -Recent advances in Chemistry	Environmental sciences	Mrs. L.Deva Vijila & Dr. S.Lizy Roselet	Awareness about pollution and prevention	All U.G. & P.G students
	Guest Lecture	Talk on General Health	Certificate Course	Dr.R.Gladis Latha	Gain knowledge about General Health	All U.G. & P.G students
December	Association meeting	Talk – Indian Scientist -Charusita Chakravarty	Research Methodology PG1724	Mrs. L.Deva Vijila & Dr. S.Lizy Roselet	Scientific attitude and	All U.G. & P.G students



## NAAC V Cycle Self Study Report (SSR)

					women empowerment	
	Lab to Land	Making day today articles at Vetturimadam	Value added Course	Dr. Sheeba Daniel & Dr. Ajith Sinthuja	Gain skill in Experiential and experimental learning	All U.G. & P.G students
January	Association meeting	Talk on Nanochemistry by Research Scholar	Advanced Topics in Chemistry	Mrs. L. Deva Vijila & Dr. S. Lizy Roselet	Scientific attitude and women empowerment	All U.G. & P.G students
	Lab to Land	Making day today articles at Colachel	Value added Course	Sr. K. Francy & Dr. Ajith Sinthuja	Gain skill in Experiential and experimental learning	45(III U.G. students)
February	Association meeting	Celebration of National Science Day-Competition on Designing structure of Organic molecules	Organic Chemistry CC1731 & CC1741	Mrs. L. Deva Vijila & Dr. S. Lizy Roselet	Gain Competency in Organic Chemistry	All U.G. & P.G students
	Guest Lecture	Talk on air pollution	EVS-AEC172	Dr. R. Gladis Latha	Creating environmental consciousness	All U.G. & P.G students

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