



# 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

### ACTION PLAN

2023 -2024

#### Department of Mathematics

#### Action Plan for 2023-2024

Month	Activity	Staff In charge	Beneficiaries	Impact/ Expected outcome
July	Mathematics Club Meeting – Celebration of International Justice Day	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To create social awareness
August	Chapter Meet for Alumnae	Dr. L. Jesmalar	Alumnae	To develop social skills and know their present employability status
	Mathematics Club Meeting – Celebration of World Photography Day Competition on Photography	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To kindle the aesthetic sense of the students
September	IIC Seminar on “Impact of Industry 4.0 on Entrepreneurship” on 8-9-2023.	Dr. V. Sujin Flower & Dr. K. Jeya Daisy	All UG and PG students	To highlight the emerging technologies for entrepreneurs, emphasizing the need for adaptive strategies and innovative approaches to thrive in the digital age.
	Mathematics Club Meeting – Talk on Artificial Intelligence	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To provide insights into AI's current capabilities, applications, and future potential.
	Mathematics Club	Dr. M. K. Angel	All UG and PG	To give valuable insights and advice to

## NAAC V Cycle Self Study Report (SSR)

	Meeting – Talk by Alumnae(Amala Persy Anusha) 23-9-2023	Jebitha & Dr. Anat Jaslin Jini	students	current students.
	Mathematics Club – Model making & Poster Presentation on Cyber Security, IoT on 19-9-2023	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	A comprehensive showcase of innovative solutions and best practices to address emerging cybersecurity challenges in the context of IoT technologies.
	Research Colloquium on Graphs from different operators by Dr. Britto Antony Xavier, Associate Professor of Mathematics, Sacred Heart College, Tirupattur	Dr.V.Sujin Flower & Sr. Antin Mary	All the Research Scholars	To develop research culture
October	Endowment Lecture on Applied Statistics in Social Science Research by Dr.Michael J. Leo, Assistant Professor,	Dr.V.Sujin Flower & Dr. K. Jeya Daisy	I and II PG students	To gain knowledge in Social Science Research

	St.Xavier's College of Education, Tirunelveli on 21-10-2023			
	Mathematics Club Meeting on Making Connection between Culture and Mathematics on 6-10-2023	Dr. M. K. Angel Jebitha & Dr. A Anat Jaslin Jini	All UG and PG students	To enhance cross-cultural understanding and promote the relevance and applicability of mathematical concepts in diverse societal contexts.
December	Mathematics Club Meeting – Celebration of National Mathematics Day by Dr. Anukumar Kathirvel on 21-12-2023.	Dr. M. K. Angel Jebitha & Dr. A Anat Jaslin Jini	All UG and PG students	To commemorate the birthday of Ramanujan
	Joy of sharing	All the faculty and students	All UG and PG students	To celebrate Christmas in a meaningful way and develop social harmony
January	Mathematics Club Meeting – Guidance for Competitive Examinations by Mrs. Krishnammal, (Rtd) Associate Professor of	Dr. M. K. Angel Jebitha & Dr. A Anat Jaslin Jini	All UG and PG students	To know about the tricks and techniques to face competitive exams without fear.



	Mathematics, on 19-1-2024			
	Mathematics Club Meeting- Talk on Cyber security on 23-1-2024.	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To raise awareness, educate, and empower individuals and organizations to protect their digital assets and data from cyber threats.
	IIC Seminar on the Importance of Mathematics in Entrepreneurship by Mrs. Krishnammal, (Rtd) Associate Professor of Mathematics.	Dr. L.Jesmalar & Mrs., J.C.Mahizha	All UG and PG students	To gain knowledge about the importance of Mathematics
February	Mathematics Club Meeting – Presentation in view of Celebration of Inventors Day	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To understand the history of Mathematics
	National Science Day Celebration – Exhibition on National Science Day Celebration	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All the UG & PG Students and Research Scholars	To apply Mathematical concepts in Real Life

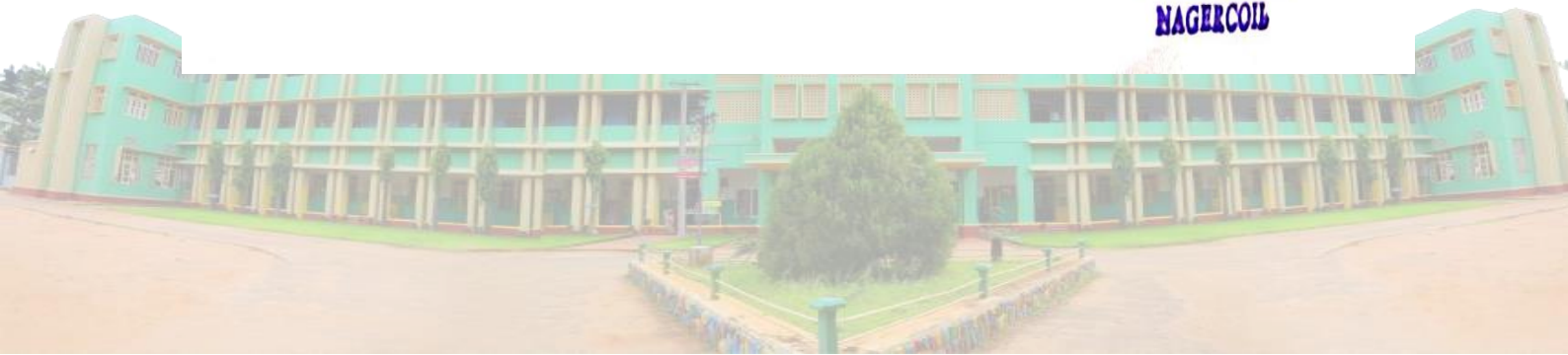


**NAAC V Cycle Self Study Report (SSR)**

March	Mathematics Club Meeting – Guest Lecture on tolerance and harmony towards cultural and regional on 28-3-2023 by Dr. K. Joseph Raj, Associate Professor of Economics (Rtd), S.T. Hindu College, Nagercoil.	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To gain knowledge about the socio Economics.
	International Conference on Publication Strategies for Researchers in the Age of Industry 4.0	Dr. J Befija Minnie & Dr. A Jancy Vini	All UG and PG students	To widen the knowledge of various Research Topics
April	Mathematics Club Meeting – Awareness program on A Holistic Approach to Better Menstrual Health and Hygiene by Dr. Preethi. V (Gynecologist) Chanthriha Hospital, Nagercoil	Dr. M. K. Angel Jebitha & Dr. Anat Jaslin Jini	All UG and PG students	To know about basic Health and Hygiene

*J. Shubh*

**Head**  
**Department of Mathematics**  
**Holy Cross College**  
**NAGERCOIL**



2022 -2023

Department of Mathematics

Action Plan for 2022-2023

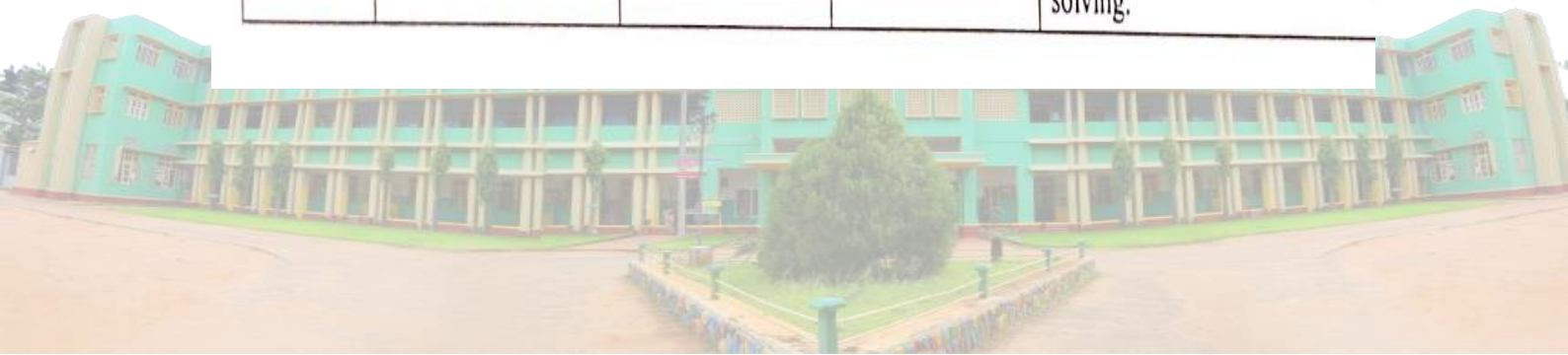
Month	Activity	Staff In charge	Beneficiaries	Impact/ Expected outcome
July	Preparation of Teaching Plan and collection of e-materials for the odd semester.(Criterion I)	All the faculty	All the faculty	To make learning organized, fun, and easier for students and saves time for teachers.
	Department Webinar	Dr.S.Sujitha& Dr. G. Jovit Vinish Melma	Mathematics faculty and students from our college and also from other Colleges	To get the knowledge of Applied Mathematics from various experts
August	Business meeting of the Mathematics Association	Dr.V.SujinFlower &Dr. A. JancyVini	Department students	To develop social skills and know their present employability status
	Admission for I PG & IUG	Dr.T. SheebaHelen &Dr.K. Jeya	I PG & IUG students	To help the students to join college for their chosen courses.



		Daisy		
	Mentoring for students. (Criterion II)	All the faculty	PG & UG students.	To provide guidance and support, helping individuals learn and grow in their personal and professional lives.
September	Chapter Meet for Alumnae	Dr. L. Jesmalar	Department	To bring former students together to reconnect, share experiences, and support each other in various aspects of life.
	Endowment Lecture	Dr. L. Jesmalar &Dr. A. Anat Jaslin Jini	Students &Faculty	To enrich understanding by featuring experts who share valuable insights, making math more interesting and accessible for students.
	Association activities - Invited talk on Gender Equity (CriterionVII) &Book Review –II PG	Dr.V.Sujin Flower &Dr. K. Jeya Daisy	Students & faculty	To raise awareness, promote fairness, and encourage equal opportunities for everyone, regardless of gender.
	Intensifying remedial coaching. (Criterion II)	All the faculty	All the Students	To help the students to improve their understanding of subjects, boosting their confidence and performance in academics.

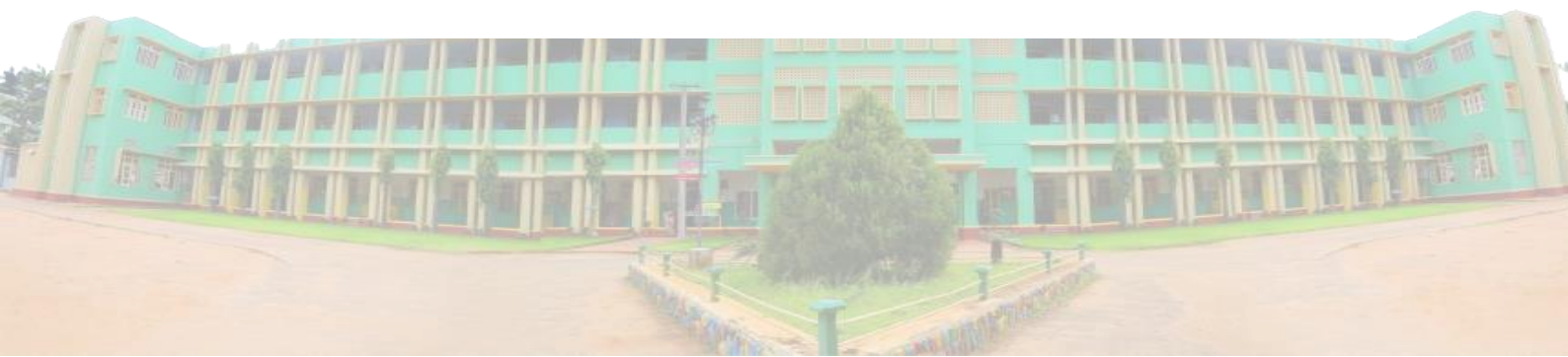


October	Research Colloquium (Criterion III)	Ms. J C Mahizha&Dr. L. Jesmalar	Research scholars & faculty	To gain knowledge in Social Science Research
	Association Activities - Invited Talk on universal values. (Criterion VII)	Dr.V.Sujin Flower & Dr. K. Jeya Daisy	All the Students &Faculty	To inspire students to embrace shared principles like kindness, respect, and fairness, fostering a better and more harmonious society.
	Paper presentation by faculty and students (Criterion III)	All the Students & faculty	All the Students & faculty	To enhance cross-cultural understanding and promote the relevance and applicability of mathematical concepts in diverse societal contexts.
November	IIC Programme Invited talk on Start Up/ Entrepreneurship	Dr.V. Sujin Flower & Sr. Antin Mary	All the Students & faculty	To provide insights and knowledge on how mathematical skills can be applied in the business world, encouraging a mindset of innovation and problem- solving.



## NAAC V Cycle Self Study Report (SSR)

Association Activities – Book Review –I PG	Dr. V.Sujin Flower & Dr. K. Jeya Daisy	All the Students & faculty	To offer a brief and insightful evaluation of a book, helping readers decide if it's worth exploring and providing feedback to the author.
Intensifying remedial coaching (Criterion II)	All the faculty	All the Students	To help the students to improve their understanding of subjects, boosting their confidence and performance in academics.
Collection and storage of the soft copies of UG and PG students' projects. (Criterion IV)	All the faculty	All the Students	To help students apply their mathematical knowledge to real-world problems, enhancing their understanding and problem-solving skills.
Mathematics classes for school students by II UG students as a part of extension activity - RUN Programme (Criterion III)	Ms.J.C.Mahizha & Dr. A. Anat Jaslin Jini	All the II UG students	To provide additional learning support, helping them excel in mathematics and fostering a positive learning environment.





## NAAC V Cycle Self Study Report (SSR)

	Department Open Forum	All the faculty	Students and faculty	To create a space for discussion and collaboration, fostering communication among students and faculty to share ideas, address concerns, and enhance the overall learning experience.
December	Exam Duty – Invigilation and valuation	All the faculty	All the students	To ensure a fair exam environment, valuation involves the careful assessment of student work, contributing to a transparent and accurate evaluation process.
	Publication of Research Papers in UGC care list Journals. (Criterion III)	Students and faculty	Students and faculty	To share new knowledge and discoveries with the academic community, contributing to the advancement of mathematical understanding.
	Department review meeting for even semester(Criterion I)	All the faculty	All the faculty	To ensure an assessment and discussion of the progress and challenges, facilitating improvements for a smoother and more effective academic term.
	Department Meeting for Paper	All the faculty	Students and faculty	selection and assignment of topics for academic papers, streamlining the process for

	Fixing(Criterion I)			faculty, and ensuring organized preparation for coursework.
	Documentation of the odd semester programs (Criterion I)	Dr.V.Sujin Flower & Dr. K. Jeya Daisy	Students and faculty	To record essential information, facilitating a well-structured and accessible resource for both students and faculty throughout the semester.
	Association Activities – Book Review –III UG and Celebration of National mathematics Day (Criterion VII)	Dr.V.Sujin Flower & Dr. K. Jeya Daisy	All the students	To appreciate the beauty of mathematics, fostering enthusiasm, understanding, and a sense of community around the subject.
January	Department Webinar	Dr.S.Sujitha & Dr.M. K. Angel Jebitha	Mathematics faculty and students from our college and also from other Colleges.	To get knowledge of Applied Mathematics from various experts



## NAAC V Cycle Self Study Report (SSR)

	Preparation of Teaching Plan and collection of materials for the entire semester. (Criterion I)	All the faculty	All the faculty & students	To ensure a well-organized and structured approach to teaching, helping instructors effectively cover topics and create a positive learning experience for students.
February	Board of Studies (Criterion I)	All the faculty	Students	To ensure the development and improvement of the mathematics curriculum, promoting quality education and enhancing the learning experience for students.
	Association Activities Book Review "Vedic Geometry".	Dr. V. Sujin Flower & Dr. K. Jeya Daisy	All the faculty & students	Enlightening the students on the topic "Vedic Geometry".
	Chapter Meet for Alumnae	Dr. L. Jesmalar	Alumnae & Department	To reconnect, share experiences, and support each other in their personal and professional journeys.
March	IIC programme Invited talk on Innovation / IPR	Dr. A. Jancy Vini Dr. J. Befija Minnie	All the Research Scholars	To gain knowledge about IPR
	Publication of Books (Criterion III)	Students and Faculty	All the faculty & students	To showcase the collaborative effort, creativity, and knowledge of the students,



				providing a valuable resource for learning and sharing insights.
	Association Activities- Coaching the students to participate in Intercollegiate Quiz Competitions. (Mathletes) (Criterion I)	Dr.V.Sujin Flower & Dr. K. Jeya Daisy	All the faculty & students	To help them develop knowledge, critical thinking skills, and confidence, preparing them to represent their college effectively in quiz competitions.
	Intensifying remedial coaching (Criterion II)	All the faculty	All the students	To improve their understanding of subjects, boosting their confidence, and enhancing academic performance by providing targeted support and additional guidance.
April	Association Activities – Book Review –I UG	Dr. V.Sujin Flower & Dr. K. Jeya Daisy	Students and Faculty	To provide a brief and insightful evaluation of a book, helping readers decide whether the book is worth exploring and offering feedback on its content and value.
	Publication of Research Papers in UGC care list Journals. (Criterion	Students and Faculty	Students and Faculty	To share new knowledge and discoveries with the academic community, contributing to the advancement of understanding in a particular field.



## NAAC V Cycle Self Study Report (SSR)

	III).			
	Details of student progression and placements. (Criterion III)	Dr.L.Jesmalar & Dr.V.Sujin Flower	Students and Faculty	To gather information on students' academic advancements and their success in securing job placements, providing valuable insights into the effectiveness of educational programs.
May	News Letter (Criterion VII)	Dr.V.Sujin Flower & Dr. K. Jeya Daisy	Department & students	To share updates, achievements, and interesting information related to mathematics, fostering communication and engagement within the mathematics community.
	Department review meeting for odd semester(Criterion I)	All the faculty	Department & students	To ensure an assessment and discussion of the progress and challenges, facilitating improvements for a smoother and more effective academic term.
	Department Meeting for Paper Fixing(Criterion I)	All the faculty	Department & students	selection and assignment of topics for academic papers, streamlining the process for faculty, and ensuring organized preparation for coursework.
	Documentation of the even semester	Dr.V.Sujin Flower & Dr. K. Jeya		To record essential information, facilitating a well-

	programs (Criterion I)	Daisy		structured and accessible resource for both students and faculty throughout the semester.
	Exam Duty – Invigilation and valuation	All the faculty		To ensure a fair exam environment, while valuation involves the careful assessment of student work, contributing to a transparent and accurate evaluation process.

*T. Subash*

**Head**

**Department of Mathematics,  
Holy Cross College  
NAGERCOIL**



2021 -2022

Department of Mathematics (Aided)  
Action Plan 2021 – 2022

Month	Activity	Faculty in charge	Beneficiaries	Impact/ Expected outcome
June	Department Webinar	Sr.S Antin Mary &Mrs. J C Mahizha	Mathematics faculty and students from our college and also from other Colleges	To provide an online platform for sharing knowledge, insights, and discussions related to mathematics, facilitating learning and collaboration among participants.
	Preparing Teaching Plan for all the odd semester courses	All the faculty	All the faculty	To ensure a well-organized approach to teaching, helping educators structure lessons, cover essential topics, and create an effective learning experience for students.
July	Inauguration of Research Colloquium	Dr.V M Arul Flower Mary &Dr.K Jeya Daisy	All the Mathematics research scholars & faculty	To mark the beginning of a forum where researchers gather to present and discuss their work, fostering collaboration and knowledge sharing within the academic community.



## NAAC V Cycle Self Study Report (SSR)

	Business meeting of the Mathematics Association	Dr.L Jesmalar &Dr.S Sujitha	Department students	To involve discussions and decisions related to the association's activities, promoting coordination among members and contributing to the effective functioning of the association.
	Admission for I PG & IUG	Sr.S Antin Mary & Dr. V Sujin Flower	I PG & I UG students	To involve the enrollment of students into their respective courses, marking the beginning of their academic journey at the institution.
August	Chapter Meet for Alumnae	Dr.L Jesmalar	Department	To reconnect, share experiences, and support each other, fostering a sense of community and camaraderie among the alumnae.
	Endowment Lecture on "Algebraic Graph Theory"	Sr.SAntin Mary & Mrs.J C Mahizha	Students & faculty	To deliver valuable insights and knowledge, contributing to a deeper understanding of the subject and enhancing the overall learning experience for students.



## NAAC V Cycle Self Study Report (SSR)

	Association activities Inter-class quiz competition	Dr.L Jesmalar &Dr.S Sujitha	Students & faculty	To create a platform for students to participate in a friendly competition, showcasing their knowledge and promoting a positive learning atmosphere within the school or institution.
September	Research Colloquium on "Recent Research Areas and Methodologies in Mathematics"	Dr.A Jancy Vini &Dr .J Befija Minnie	Research scholars & faculty	To provide a platform for researchers to present and discuss their work, promoting knowledge exchange, and collaboration, and fostering a vibrant research community.
	Association Activities Teachers Day Celebration	Dr.L Jesmalar &Dr.S Sujitha	All the Students &Faculty	To honor and appreciate teachers for their dedication and contributions to education, fostering a positive and supportive environment.
October	IIC Innovation Talk Become an entrepreneur on fine arts	Dr.V M Arul Flower Mary & Dr. K Jeya Daisy	All the Students &Faculty	To manage a business centered around artistic creations, allowing individuals to pursue their passion while creating opportunities for artistic expression and commerce.



	Association meeting on "Career Guidance"	Dr. L Jesmalar &Dr.S Sujitha	All the Students &Faculty	To provide valuable insights and information to members, helping them make informed decisions about their career paths and professional development.
November	Exam Duty	All the faculty	All the students	To ensure a fair exam environment, valuation involves the careful assessment of student work, contributing to a transparent and accurate evaluation process.
	To publish Research Papers	All the faculty	All the faculty	To share new discoveries and insights with the academic community, contributing to the advancement of knowledge in a specific field.
	Department Meeting for Paper fixing and work allotment	All the faculty	All the faculty	selection and assignment of topics for academic papers, streamlining the process for faculty and ensuring organized preparation for coursework





## NAAC V Cycle Self Study Report (SSR)

	Seminar on "Testing statistical hypothesis and Algebraic Graph Theory"	Dr.T Sheeba Helen & Dr.A Jancy Vini	All the faculty & Students.	To provide insights and knowledge about these mathematical topics, fostering a deeper understanding among participants and promoting discussion within the academic community.
February	Preparing Teaching Plan for all the even semester courses	All the faculty	All the faculty & Students	To ensure a systematic and organized approach to delivering lessons, covering key topics, and providing structured learning experiences for students across various courses.
March	Research Colloquium	Dr.T Sheeba Helen & Dr. V Sujin Flower	All the Research Scholars	To present and discuss their work, fostering collaboration, knowledge sharing, and contributing to the academic community's overall growth.
	Association Activities- "Gender Sensitization"	Dr.L Jesmalar & Dr.S Sujitha	All the students	To increase awareness and understanding about gender-related issues, fostering an environment of respect, equality, and inclusivity for all individuals.

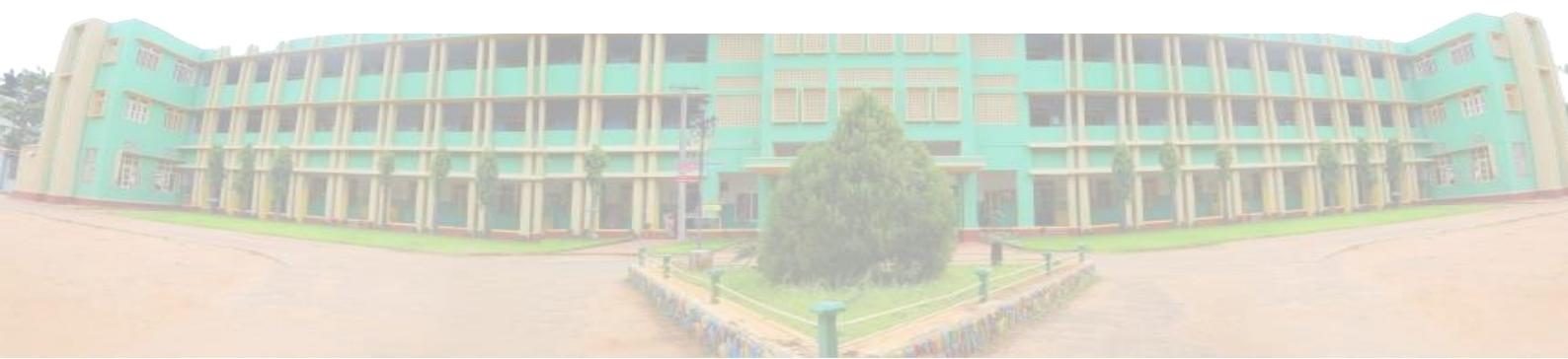


## NAAC V Cycle Self Study Report (SSR)

December	Celebration of Mathematics Day	Dr.L Jesmalar & Dr.S Sujitha	All the students	To commemorate the birthday of Ramanujan
	Teaching Plan for even semester	All the faculty	All the faculty & students	To ensure a well-organized approach to delivering lessons, covering key topics, and providing a structured learning experience for students
January	Board of Studies	All the faculty	Students	To improve and develop the mathematics curriculum, aiming to enhance the quality of education and ensure a well-rounded learning experience for students.
	Association Activities Christmas Visit	Dr.L Jesmalar & Dr.S Sujitha	All the faculty & Students	To spread joy and goodwill during the festive season, connecting with friends.
	Chapter Meet for Alumnae	Dr.L Jesmalar	Alumnae & Department	To reconnect, share experiences, and support each other.



	Seminar on "Testing statistical hypothesis and Algebraic Graph Theory"	Dr.T Sheeba Helen & Dr.A Jancy Vini	All the faculty & Students.	To provide insights and knowledge about these mathematical topics, fostering a deeper understanding among participants and promoting discussion within the academic community.
February	Preparing Teaching Plan for all the even semester courses	All the faculty	All the faculty & Students	To ensure a systematic and organized approach to delivering lessons, covering key topics, and providing structured learning experiences for students across various courses.
March	Research Colloquium	Dr.T Sheeba Helen & Dr. V Sujin Flower	All the Research Scholars	To present and discuss their work, fostering collaboration, knowledge sharing, and contributing to the academic community's overall growth.
	Association Activities- "Gender Sensitization"	Dr.L Jesmalar &Dr.S Sujitha	All the students	To increase awareness and understanding about gender-related issues, fostering an environment of respect, equality, and inclusivity for all individuals.



## NAAC V Cycle Self Study Report (SSR)

April	Webinar on "The mathematics of entrepreneurship"	Dr.T Sheeba Helen & Dr. A Jancy Vini	All the faculty&students	To provide insights into the application of mathematical concepts in the business world, offering valuable knowledge and promoting a better understanding of the intersection between mathematics and entrepreneurship.
	Association Activities - A talk on "International Day of Mathematics"	Dr.L Jesmalar & Dr.S Sujitha	All the students	To highlight the importance of mathematics globally, promoting awareness and appreciation for the subject on an international scale.
	Chapter Meet for Alumnae	Dr.L Jesmalar	Alumnae &Department	To provide an opportunity for former students to come together, reconnect, share experiences, and build a supportive community among alumnae.
May	News Letter	Dr.L Jesmalar &Dr.S Sujitha	Department &Students	To share updates, achievements, and relevant information,

				fostering communication and community within the department.
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*J. Sheela*

**For/ Head  
Department of Mathematics  
Holy Cross College  
NAGERCOIL**



2022-2023

Department of Mathematics

Action Plan for 2020-2021

Month	Activity	Staff In charge	Beneficiaries	Impact/ Expected outcome
June	Department Meeting	Dr.V.M. Arul Flower Mary	11	Discussed webinar on “Fuzzy Systems and Graph Theory”
	Webinar on “Fuzzy Systems and Graph Theory”	Dr. J Befija Minnie & Dr. V Sujin Flower	240	Participants were very attentive because of real-life applications and new avenues in Fuzzy theory.
July	Department Meeting (By Google Meet)	Dr.V.M. Arul Flower Mary	11	The outcome of the department meeting was a decision to implement online classes for the students.
	Department Meeting (By Google Meet)	Dr.V.M. Arul Flower Mary	11	The outcome of the department meeting was a decision to implement online classes for the students.
August	Department prayer Meet & Orientation for online classes	Dr.V.M. Arul Flower Mary	128	Following the department prayer meet and online class orientation, everyone felt motivated and prepared for the semester. Attendees also understood the course layout and tech needs better
	National Workshop on “learning LaTeX”	Sr. S Antin Mary & Ms. J C Mahizha	69(All IIPG and III UG students)	Students were motivated to install LaTeX and came to know the LaTeX format.
	Welcome I UG students & Orientation for online classes	Dr.V.M.Arul Flower Mary	59	After the welcome for undergraduate students and the online class orientation, everyone felt prepared and confident to begin their studies



## NAAC V Cycle Self Study Report (SSR)

	Welcome I PG students & Orientation for online classes	Dr.V.M.Arul Flower Mary	34	After the welcome for postgraduate students and the online class orientation, everyone felt prepared and confident to begin their studies
September	Orientation for online Semester Examinations	Dr.S Sujitha	All UG and PG students	It enables them to make essential connections with studies and develop networks among other peers.
October	Sr.Scholastica's & Mrs.Krishnammal's Endowment Lecture  Exploring Research in the field of Graph Theory	Dr.J Befija Minnie & Ms. A Jancy Vini	I and II PG students	To gain knowledge in Social Science Research
	Values for Improving a Good Personality	Dr. K. Jeya Daisy	All UG and PG students	To gain values



	Organic Farming, Medicinal Plants, Health Care and Home Remedies	Dr.V.M.Arul Flower Mary & Ms.T Sheeba Helen	All UG and PG students	Growing organic produce and cultivating medicinal plants contribute to a holistic approach to health care, often incorporating simple home remedies.
	Careers for Mathematics Graduates in the Corporate Sector	Dr.V.M.Arul Flower Mary & Ms.T Sheeba Helen	All UG and PG students	Mathematics graduates can excel in various corporate roles, including data analysis, risk management, financial modelling, and operations research, leveraging their analytical and problem-solving skills.
December	Mathematics Association: Ramanujan's Day Celebration	Dr.V.M.Arul Flower Mary & Ms.T Sheeba Helen	All UG and PG students	To commemorate the birthday of Ramanujan
	Joy of sharing	All the faculty and students	All UG and PG students	To celebrate Christmas in a meaningful way and develop social harmony
February	Mathematics Club Meeting – (i) Innovation Speech on "Interesting facts about human brain" (ii) General quiz competition	Dr.V.M.Arul Flower Mary & Ms.T Sheeba Helen	All UG and PG students	The human brain is a powerhouse influencing our thoughts, actions, and even capable of generating electricity



**NAAC V Cycle Self Study Report (SSR)**

	Interesting facts about the Human Brain  General Quiz	Dr.V.M.Arul Flower Mary & Ms.T Sheeba  Helen	All the UG & PG Students	To apply Mathematical concepts in Real Life
March	"Entrepreneurship Training for Mathematics Students" in Collaboration with IIC	Dr. L Jesmalar & Mrs. J C Mahizha	All UG and PG students	Entrepreneurship training for mathematics enthusiasts empowers them to apply analytical and problem-solving skills in innovative ways, fostering a unique approach to business ventures
	Book Review Session on "Ontey Nantey Intey" authored by Fr. Titus Mohan  Number game and Connection game	Dr.V.M.Arul Flower Mary & Ms.T Sheeba  Helen	All UG and PG students	To widen the knowledge of various Books
	Talk on "Shakuntala Devi- The Life Inspiration "	Dr.V.M.Arul Flower Mary & Ms.T Sheeba  Helen	All UG and PG students	Shakuntala Devi, known as the "Human Computer," serves as a life inspiration, showcasing the extraordinary potential of mathematical brilliance and determination.

*T. Sheela*  
For / Head  
Department of Mathematics  
Holy Cross College  
NAGERCOIL





Department of Mathematics  
Action Plan for 2019-2020

Month	Activity	Staff In charge	Beneficiaries	
June	To prepare a teaching plan	All faculty	Faculty and Students	The outcome of preparing a teaching plan is to ensure a clear and organized approach to delivering lessons
	Clean Drive (Cleaning of the classrooms, cupboards, and department room)	All five class teachers Dr.K Jeya Daisy Dr.J Befija Minnie Dr.L Jesmalar Mrs. J C Mahizha Ms.T Sheeba Helen	Faculty and Students	Cleaning of classrooms, cupboards, and the department room ensures a tidy and organized environment for effective learning and work.
	Meeting the I UG students and their parents	Dr. V M Arul Flower Mary& I year class teacher Dr.K Jeya Daisy	I UG Students and their Parents (90)	Meeting with parents strengthens the partnership between educators and families, fostering a collaborative and supportive educational journey for the students.
	Welcoming I UG students	Dr. K Jeya Daisy	I UG Students and III UG Students (90)	Welcoming undergraduate students with open arms sets the tone for a positive and inclusive academic



## NAAC V Cycle Self Study Report (SSR)

	Increase the number of Ph.D Research scholars and guides (or)	- Dr.V M Arul Flower Mary Dr. M K Angel Jebitha Dr. S Sujitha	Research Scholars	experience. Boosting the number of Ph.D. research scholars and guides enhances the research ecosystem, fostering intellectual growth and advancing knowledge in various fields.
	Association Meeting Gender Sensitization program of Stages of Human Maturity	Sr.S Antony Mary	II UG Students and III UG Students (90)	Implementing a gender sensitization program across different stages of human maturity promotes understanding, empathy, and respect, fostering a more inclusive and equitable society.
<b>July</b>	Welcoming I PG students	Ms. J C Mahizha	I PG Students and II PG Students (50)	Welcoming postgraduate students with open arms sets the tone for a positive and inclusive academic experience.
	Endowment Lecture (NET/SET coaching)	Dr. V Sujin Flower Ms. T Sheeba Helen	I PG Students and II PG Students (50)	NET/SET coaching provides targeted guidance, equipping individuals with the necessary skills and knowledge to excel in competitive exams and pursue a successful academic career.



## NAAC V Cycle Self Study Report (SSR)

	Green Drive  (Increase the number of indoor plants in each classroom and in the department)	Dr. V M Arul Flower Mary	All the Department Students and Faculty (191)	A green drive signifies a collective effort towards environmental conservation and sustainability, encouraging eco-friendly practices and initiatives for a healthier planet.
	Sign a new MOU	Dr.V M Arul Flower Mary Dr. M K Angel Jebitha	All the Department Students and Faculty (191)	Signing a Memorandum of Understanding (MOU) formalizes collaboration, outlining the terms and commitments between parties, fostering mutual understanding and cooperation
	Association Meeting How to Prepare for Competitive Exams:Step by Step Explanation for Beginners	Mrs.J.C.Mahizha	All III UG , II PG Students	Preparing for competitive exams involves creating a structured study plan, practicing regularly with mock tests, seeking clarity on concepts, and maintaining a healthy balance between study and breaks for effective retention
<b>August</b>	Association Meeting  Subject wise (Course wise) Quiz Competition by	Mrs.J.C.Mahizha, Sr. S Antin Mary Sr. S Antony Mary Mrs. J C Mahizha	All the Department Students  All the Mathematics	Engaging in a quiz competition sharpens your knowledge, boosts quick thinking, and adds a fun



	II MSc and III BSc Students (1st Quiz)		Students and Faculty (191)	element to learning, making it an enjoyable way to test and expand your understanding of various topics
	Make at least 30 percent of high achievers sign for free MOOC courses	Sr. S Antony Mary Dr. M K Angel Jebitha	All Students	Flexible learning opportunities, allowing individuals to acquire new skills or deepen their knowledge through online platforms, often at their own pace
September	Department Tour	.Dr. L Jesmalar Ms. T Sheeba Helen	III UG and II PG Students (70)	A department tour provides an insightful exploration of the facilities, resources, and workspaces, offering a firsthand experience and fostering a sense of belonging and familiarity among the participant
	Increase the number of student paper presenters	Dr. M K Angel Jebitha	II PG Students, Research scholars	Encouraging more student paper presenters involves promoting active participation and creating a supportive environment for students to confidently share their research
	Association Meeting Subject wise (Course wise) Quiz Competition by	Sr. S Antony Mary Mrs. J C Mahizha	III UG and II PG Students	Engaging in a quiz competition sharpens your knowledge



	II MSc and III BSc Students (2 nd Quiz)			
October	Industrial Visit (Planetarium, Trivandrum)	Dr.S.Sujitha Sr.S Antony Mary	III UG and II PG Students (75)	An industrial visit provides students with practical exposure to real-world work environments, fostering a deeper understanding of theoretical concepts and enhancing their practical knowledge
	Sending the Students for the University Mathematical Quiz Competition	Ms. J C Mahizha, Sr.S Antony Mary	Two II PG Students and one I PG Student (3)	Engaging in a quiz competition sharpens your knowledge
	Association Meeting Subjectwise(Course wise) Quiz Competition by II MSc and III BSc Students (3 rd. Quiz)	Sr. S Antony Mary Mrs. J C Mahizha	All the Mathematics Students and Faculty (191)	Engaging in a quiz competition sharpens your knowledge
	Apply for DST/FIST projects	Dr. V M Arul Flower Mary	Faculty	Faculty-led projects contribute to a dynamic learning environment, providing students with hands-on experiences, practical skills, and



				valuable insights into real-world applications of academic concepts
November	Exam Duty	All the faculty	Faculty	Making sure they run smoothly and fairly, ensuring a secure environment for accurate assessments
December	Xmas Visit	Dr.V M Arul Flower Mary	Destitute home inmates (About 100)	To celebrate Christmas in a meaningful way and develop social harmony
	Celebration of the birthday of the Mathematician Ramanujan as "Mathematics Day"	Sr S Antin Mary, Ms. J C Mahizha	All the Maths Students and Faculty (191)	To commemorate the birthday of Mathematician Ramanujan
January	Department Seminar	Ms.A.Jancy Vini Dr.J Befija Minnie	All the Mathematics Students and Faculty (About 200 including outside participants)	A department seminar is like a mini-class where experts share interesting stuff related to our studies, making learning more exciting and giving us a chance to ask questions



February	Association Meeting NET/SET Coaching	Sr.S Antony Mary Mrs.J C Mahizha	All the Mathematics Students and Faculty (191)	NET/SET coaching is like having a friendly guide to help you get ready for the exam, giving you tips and practice to do your best
March	Celebration of Inventor's Day (Talk On Great Mathematicians)	Sr.S Antony Mary Mrs.J C Mahizha	All Mathematics Students and Faculty(191)	Inventor's Day is a time to celebrate the clever folks who came up with cool stuff, thanking them for making our world better with their awesome inventions
	Association Meeting Subjectwise(Course wise) Quiz Competition by II MSc and III BSc Students (4 th Quiz)	Sr.S Antony Mary Mrs. J C Mahizha	III UG, II PG Students	Engaging in a quiz competition sharpens student's knowledge
	Preparing and sending the Students for the Intercollegiate Mathematical Competition	Dr. M K Angel Jebitha	Two III UG Students and one II UG Student (3)	Engaging in a competition sharpens student's knowledge



	in St.Xavier's College, Palayamkottai			
April	Department Annual Newsletter	Dr. V M Arul Flower Mary	All the Mathematics Students and Faculty (191)	The department's annual newsletter is like a summary of the cool stuff we've done and achieved throughout the year
	Association Meeting Subject-wise (Course wise) Quiz Competition by II MSc and III BSc Students (5 th Quiz)	Sr. S Antony Mary, Mrs. J C Mahizha	All the Mathematics Students	Engaging in a quiz competition sharpens student's knowledge

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