



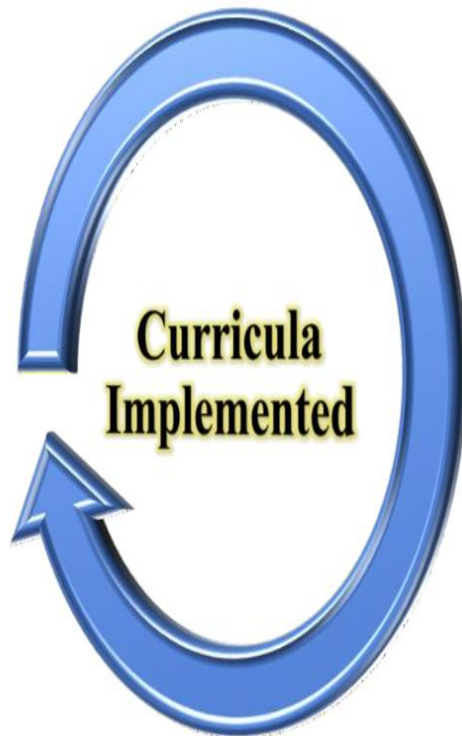
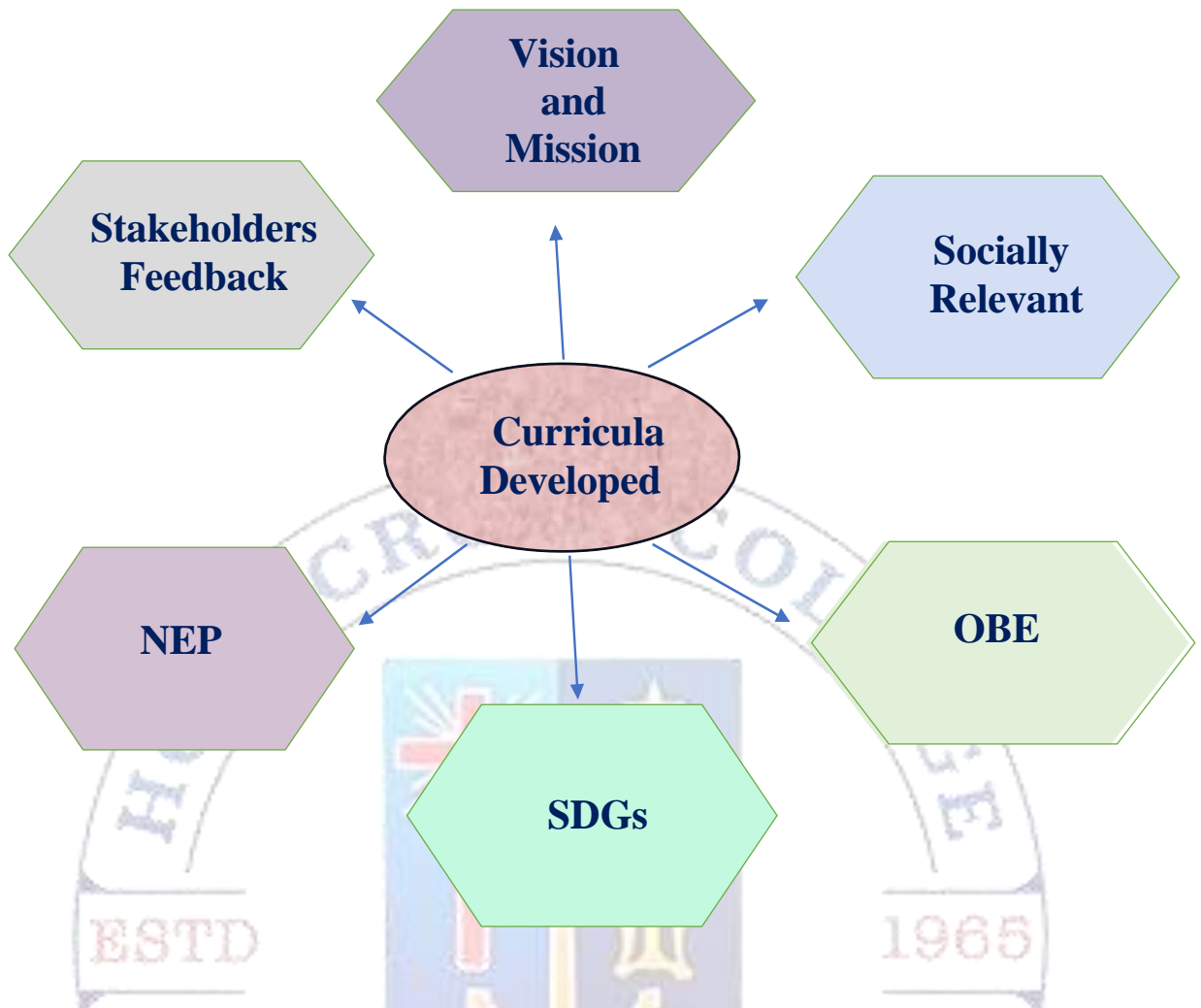
# Holy Cross College (Autonomous) Nagercoil – 629 004

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

## 1.1.1 Curricula Relevant to Local, Regional, National & Global Developmental Needs





- Curriculum Steering Committee
- Pre Board Meetings
- Board of Studies
- Academic Council
- Governing Body



Local  
Needs

Regional  
Needs

National  
Needs

Global  
Needs

**Programme Outcome (PO):**

- To implement the contributions of great thinkers and transform the society in accordance with local, national and global needs.
- To reflect upon green initiatives and take responsible steps to build a sustainable environment.
- To articulate critically to address the emerging national and global challenges with an ethical outlook
- To develop a multidisciplinary perspective and contribute to the knowledge capital of the globe
- To sensitize professional ethics and societal needs which lead them for holistic development

**Programme Specific Outcome (PSO):**

- To address complex environmental issues and develop sensitivity for the natural, physical and human resources in their familiar neighbourhood.
- To understand the socio, economic religious and political conditions of India through the ages at the local, regional and national level.
- To work in multidisciplinary teams in small- and large-scale projects by utilizing modern software tools and emerging technologies to develop complex products for the societal needs.
- To apply knowledge of computing to produce effective designs and solutions for specific problems.
- To identify societal and environmental problems and solve them with innovative ideas and technologies, which can be patented.

**Course Outcome (CO):**

- To develop the linguistic competence that enables them, in the future, to present the culture and civilization of their nation.
- To appraise the cultural heritage of Kanyakumari District
- To have an increased awareness of the nuances of the regional languages
- To evaluate the role of local community in eco-tourism spots
- To empower the employment opportunity of rural youth at village level in organic market as organic growers, stakeholders, and entrepreneurs
- To create an awareness about the contributions of the Mughals to Indian Politics
- To analyse and design a real-world problem for implementation and elaborate the dynamic behaviour of a system

S

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M

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## CURRICULUM DEVELOPMENT EFFORTS

### Curriculum Steering Committee



Board of Studies



**Academic Council Meeting**



**Governing Body**



## LOCAL NEEDS

Vermicomposting



Sericulture



Horticulture



Mushroom Cultivation



Apiculture



Ornamental Fish Culture

**Knowledge on Local Culture: Aivagai Nilams**



*Kurinji, Mullai, Marutham, Neithal, Paalai*



Local Heritage







Service Learning with Neighbourhood Community



 **HOLY CROSS COLLEGE (AUTONOMOUS),  
NAGERCOIL-4**   
Affiliated to Manonmaniam Sundaranar University, Tirunelveli  
Accredited with A<sup>+</sup> Grade (CGPA 3.35 - IV Cycle) by NAAC

**Department of Botany**

PROMOTING THE ANGANWADI

Venue : Kovilvilai  
Date : 21.10.2023

**Organizing Secretary**  
Dr.A.R. Florence  
Assistant Professor  
Department of Botany  
Holy Cross College  
(Autonomous)  
Nagercoil - 4



**Head of the Department**  
Dr. A. Anami Augustus Arul  
Assistant Professor and Head  
Department of Botany  
Holy Cross College  
(Autonomous)  
Nagercoil - 4



Holy Cross College  
YRC, RRC EYE CHECK UP CAMP  
07.10.2023 11:47  
8.14618, 77.41668



Latitude: 8.114137  
Longitude: 77.420178  
Altitude: 32.65m  
Accuracy: 4.9m

 **Department of Zoology  
Holy Cross College (Autonomous)  
Nagercoil - 629 004, Tamil Nadu**   
Affiliated to Manonmaniam Sundaranar University  
Accredited with 'A+' Grade By NAAC (CGPA 3.35), IV Cycle

**Collaboration with Reaching the Unreached Neighbourhood  
organises  
Hands-on Training on "Biocomposting"**

Date: 25.01.2020 Time: 9.00 a.m to 3 p.m  
Venue: [Keezhakaattuvillai](#)

**Organising Secretary**  
[Dr. X. Venci Can](#)  
[Dr. S. Prakash S](#)

Sample Projects

**ILLUSTRIOUS CELEBRITIES OF KANYA KUMARI DISTRICT SPECIAL REFERENCE TO AGASTEESWARAM AND KALKULAM TALUK**

*Project submitted to Holy Cross College (Autonomous), Nagercoil in partial fulfillment of the requirements for the award of the degree of*

**MASTER OF ARTS IN HISTORY**

*Submitted by*

N. MICKEL REYHEL - 2021SPH419  
C.NANISREE - 2021SPH254

**Under the Guidance of  
Dr. K.BABY**



**DEPARTMENT OF HISTORY  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL- 629 004  
NOVEMBER - 2022**

**PRELIMINARY PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL STUDIES OF SELECTED PLANTS IN KOVALAM VILLAGE, KANYAKUMARI DISTRICT, SOUTH INDIA**

Thesis Submitted to the Manonmaniam Sundaranar University in partial fulfillment of the degree of Master of Science in Botany

*Submitted By*

J. AMALIYA AFRIN (Reg. No. 2020SPB342)  
B. MORIYA (Reg. No. 2020SPB344)

*Under the Guidance of*

**Dr. J. ALBINO WINS, M.Sc., M.Phil., PGDIPR., Ph.D.**  
(Assistant Professor, Department of Botany)



**DEPARTMENT OF BOTANY  
HOLY CROSS COLLEGE (AUTONOMOUS)  
Accredited with A<sup>+</sup> Grade (CGPA 3.35) by NAAC  
NAGERCOIL - 629004**

**AN ECONOMIC STUDY ON TRIBAL PEOPLE IN KOOVAIKADU**

*Dissertation submitted by Holy Cross College (Autonomous), Nagercoil in partial fulfillment for the award of the Degree of*

**MASTER OF ECONOMICS**

*Under the guidance of*

**Dr. A. Babila Kingsly, M.A., M.Phil., Ph.D.**

*Submitted by*

MS. S. KALA Reg. No. 218179  
MS. M. RASITHA ROSHAN Reg. No. 218182  
MS. T. SANTHIYA Reg. No. 218183



**DEPARTMENT OF ECONOMICS  
HOLY CROSS COLLEGE (Autonomous)  
NAGERCOIL-629004  
2019-2020**

**GROWTH OF WOMEN EDUCATION IN KANYAKUMARI DISTRICT - A STUDY**

*Project Submitted to Holy Cross College (Autonomous), Nagercoil in partial fulfillment of the requirements for the award of the degree of*

**MASTER OF ARTS IN HISTORY**

*Submitted by*

R. SANGEETHA 2021SPH362  
S. VINSHA 2021SPH257

*Under the Guidance of  
Dr.S. MARY JUDITH*

## REGIONAL NEEDS

Exhibition on Medicinal Plants



Palm Leaf Manuscripts (Olai Chuvadi)



PG & Research Department of English  
Holy Cross College (Autonomous), Nagercoil  
Affiliated with Manonmaniam Sundaranar University, Tirunelveli  
Re-Accredited with A+ by NAAC (IV CYCLE-CGPA 3.35)

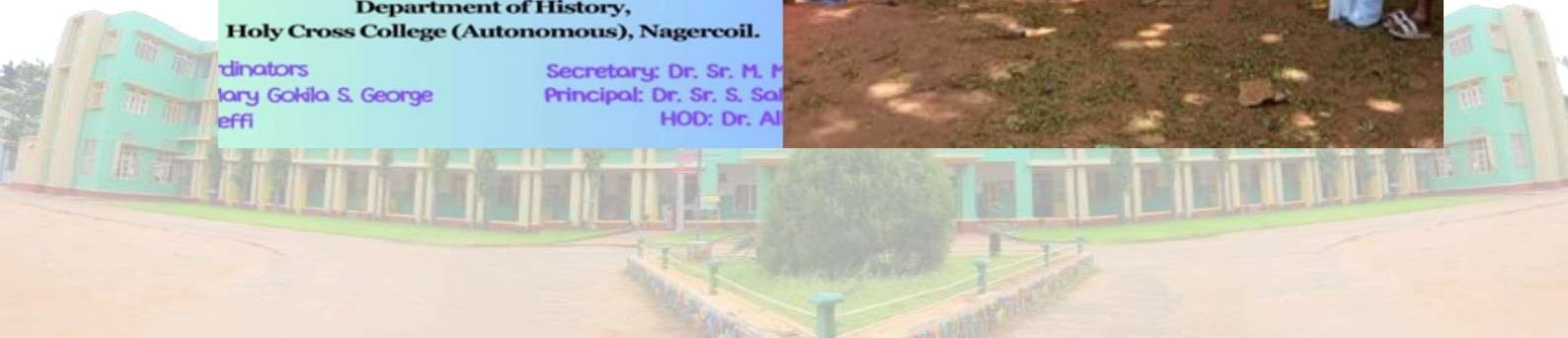
**The English Club**  
Organizes  
*Tableau Competition*  
&  
*A Talk on*  
*Regional Freedom Fighters*

Venue: Seminar Hall  
Date: 24/01/24  
Time: 2:15 - 3:15 p.m.

**Resource Person:**  
**Dr. S. Regi**  
Assistant Controller of Examinations,  
Department of History,  
Holy Cross College (Autonomous), Nagercoil.

Coordinators  
Mary Gokila S. George  
Sneha  
Sneha

Secretary: Dr. Sr. M. M.  
Principal: Dr. Sr. S. S.  
HOD: Dr. A.



**திருச்சிவனவே கல்லூரி (தன்னாட்சி) நாகர்கோவில் தமிழ்த்துறை நிகழ்த்தும் முத்தமிழ் விழா**

இடம் : பன்னோக்கு அரங்கம்  
 நாள் : 28-02-2022, திங்கட்கிழமை  
 நேரம் : காலை 9.30 மணி முதல் மாலை 3.30 மணி வரை

நிகழ்வின் தமிழ்த்தாய் வாழ்த்து ஒளியேற்றதல் வரவேற்புரை : மாணவிகள்  
 வாழ்த்துரை : முனைவர் ம.ஜஸ்டின் பியூலா தமிழ்த்துறைத்தலைவர்  
 வாழ்த்துரை : முனைவர் அருட்சகோதரி ஆனி பெட்டெட் சோபி கல்லூரி முதல்வர்  
 சிறப்புரை : பேரா. பா.த. அன்பு நான்னா பேரா இணைப் பேராசிரியர், பிளேக்கத்துறைத்தலைவர்  
 பாடல் : முனைவர் அருட்சகோதரி ஜோராஜன் ஜெயம் கல்லூரி செயலர்  
 பரிசு வழங்குதல் போட்டிகளில் பரிசு பெற்ற மாணவிகள் : மாணவிகள்  
 நன்றியுரை : செல்வி. பி. ஜியாபீன் ஏர்சினி (இளங்கலை முதலாமாண்டு இயற்பியல்) செல்வி. த.சி. தாமினி (இளங்கலை முதலாமாண்டு கணிதம் சுயநிதிப்பீடு) செல்வி. ல. தனசெல்வன் (முதுகலை முதலாமாண்டு ஆங்கில இலக்கியம் சுயநிதிப்பீடு)  
 சிறப்புப் பட்டிமன்றம் தலைப்பு : “கொளோ பொதுமூடக்கத்தால் மாணவர்கள் அதிகம் இழந்தனா? பெற்றனா?”  
 நடுவர் : பேராசிரியர் ஹாமிட் முஸ்தபா மற்றும் மாணவிகள்  
 நாட்டுப்பண் : மாணவிகள்  
 நிகழ்ச்சித்தொகுப்பு : முனைவர் செ.கனீதா முனைவர் மா.தே.அருண்மொழி நங்கை  
 நிகழ்ச்சி ஒத்திணைப்பு : முனைவர் வ.ஆனந்தி பிரகாஷ் பட்டின



**ஹோலிகிராஸ் கல்லூரி (தன்னாட்சி), நாகர்கோ தமிழ்ப் பாரம்பரிய உணவுத் திருவிழா**

நாள் : 03.03.2023 மற்றும் 04.03.2023  
 இடம் : கல்லூரி வளாகம்

ரவலர்கள்:

- முனைவர் அருட்சகோதரி மேரி ஹில்லா, கல்லூரிச் செயலர்
- முனைவர் அருட்சகோதரி சகாய செல்வி, கல்லூரி முதல்வர்

முருங்கிணைப்பாளர்கள் :

- முனைவர் ம.ஜஸ்டின் பியூலா, தமிழ்த்துறை உதவிப் பேராசிரியர்
- முனைவர் மா.தே.அருண் மொழி நங்கை, தமிழ்த்துறை உதவிப் பேராசிரியர்
- முனைவர் மா.ஜாஸ்மின் வினோஜா, தமிழ்த்துறை உதவிப் பேராசிரியர்

Tamil Nadu 629004



**Tamil Young Writers Forum**

To Address Regional Educational Needs and Relevance in the Curriculum, the Department of History Organized a Young Writers' Meet, Facilitating a Collaborative Platform for Emerging Writers to Explore and Contribute

**DEPARTMENT OF HISTORY  
IN COLLABORATION WITH DEANERY OF ENTREPRENEURSHIP  
DEVELOPMENT  
HOLY CROSS COLLEGE (Autonomous)**

Affiliated to Manonmaniam Sundaranar University  
Accredited with A<sup>+</sup> Grade (CGPA- 3.35) by NAAC (IV Cycle)  
Nagercoil – 629004, Tamil Nadu, India

Organizes a Mega Fest on

**YOUNG WRITERS FORUM  
Holy Cross College (Autonomous), Nagercoil  
Theme: **BUDDING WRITERS****



**Chief Guest: Dr. P.P. Chellathurai  
Former V.C. Madurai Kamaraj University**

**Patron: Dr. Sr Mary Hilda, Secretary & President of HCIIC  
Chairperson: Dr. Sr. Sahaya Selvi, Principal & President of IIC  
Dean of Entrepreneurship : Dr. Jeni Chandar Padua,  
Convenor: Dr. I. Jalaja Kumari (HOD)**

**Date: 25-08-2023**

**Time: 10.am - 12.30 P. m**

**Venue: St. Joseph's Hall**

**Founder: Dr. K. S. Soumya, Asst. Professor of History, 8056820311**

**Co- Founders: Dr. I. Jalaja Kumari, Head of the Department, 9751920273**

**Mentor: Dr. K. Baby, Co-ordinator, Startup Cell, 9486011336**



Sample Projects

**Sample Projects**

**CONTRIBUTION OF PANDYAS TO ANCIENT TAMILAGAM**

*Project submitted to Holy Cross College (Autonomous), Nagercoil in partial fulfillment of the requirements for the award of the degree of*

**MASTER OF ARTS IN HISTORY**

Submitted by

**G. RACHEL LIBI JANISHA**      2021SPH255  
**J. JEEVA**                              2021SPH418

Under the Guidance of  
**Dr. R. SUJI**



**DEPARTMENT OF HISTORY**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
NAGERCOIL - 629 004  
NOVEMBER 2022

*B.Sc. 132*


**BIODIVERSITY OF ARTHROPODS IN KANYAKUMARI DISTRICT: A REGIONAL PERSPECTIVE**

Project report submitted to Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli in partial fulfillment of the requirements for the award of the Degree of

**BACHELOR OF SCIENCE**  
IN  
**ZOOLOGY**

Submitted by

**Sr. Anto Monisha S**      Reg. No: 2021AUZ138  
**Mathija. M**              Reg. No: 2021AUZ146  
**Ubasana J**                Reg. No: 2021AUZ154  
**Pradisha S**                Reg. No: 2021AUZ450



**DEPARTMENT OF ZOOLOGY**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
NAGERCOIL - 629 004

OCTOBER 2023


**A COMPARATIVE STUDY ON THE BIOCHEMICAL COMPOSITION OF FEW FRESHWATER AND MARINE FISHES**

*Dissertation submitted to Holy Cross College (Autonomous), Nagercoil affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfillment of the requirements for the award of the Degree of*

**MASTER OF SCIENCE**  
IN  
**ZOOLOGY**

Submitted by

**T. A. ANGEL MARY** (Reg. No. 218101)  
**R. RAJESHWARI** (Reg. No. 218110)



**DEPARTMENT OF ZOOLOGY**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
NAGERCOIL - 629004  
OCTOBER - 2019


**TUDY ON FARMERS PROBLEM REGARDING CLIMATE CHANGE IE IMPACT OF AGRICULTURE DECLINE IN KARAMADAI AREA COIMBATURE DISTRICT**

*ertation submitted to Holy Cross College (Autonomous), Nagercoil, Affiliat niam sundaranar University, Tirunelveli, In Partial Fulfilment of the Req for the Award of the Degree of*

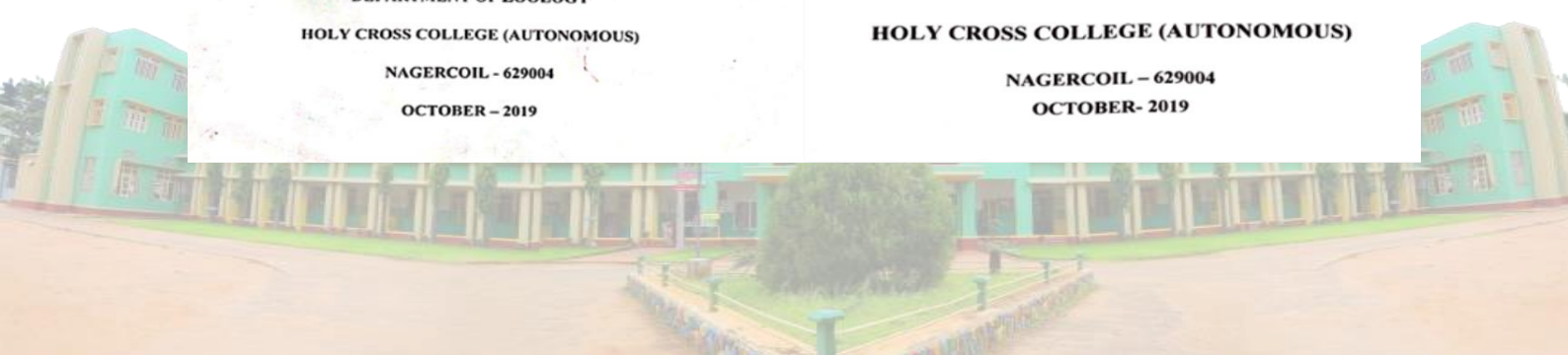
**Master of Social Work**

Submitted by  
**A.ABISHA**  
**REG.NO:218213**

Under the guidance of  
**Ms. J. MARY DEEBA**  
**Head P.G Department of social work**  
**Holy cross college (Autonomous), Nagercoil.**



**P.G. DEPARTMENT OF SOCIAL WORK**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
NAGERCOIL - 629004  
OCTOBER- 2019



## NATIONAL NEEDS

Computer Hardware Training



Chemistry of Cosmetics



Millets



Physics in Everyday life



Plant Diversity



### Industrial Experience

Students Immerse in a Hands-on Learning Experience at Industries, Linking Academic Theories with Practical Solutions Addressing National Development Challenges





Sample Projects


**Investigating the Antimicrobial Efficacy and Chemical Profiling of Leaves of *Citrus medica L.* Essential Oil Extracts against Multi-Drug Resistant Pathogens**

Project report submitted to  
Manonmaniam Sundaranar University, Tirunelveli

In partial fulfilment of the requirements for the award of the Degree of  
**BACHELOR OF SCIENCE IN BOTANY**

Submitted by

<b>A. Anisha</b>	<b>-2021AUB123</b>
<b>D.Sahaya Felcia</b>	<b>- 2021AUB131</b>



Under the guidance of

**Dr. A. ANAMI AUGUSTUS ARUL M.Sc., MPhil., Ph.D.**  
DEPARTMENT OF BOTANY  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629 004

**Trauma and Human Existence: A Psychoanalytical Reading of Preeti Shenoy's Novel *Life Is What You Make It***


Project Report Submitted to  
**Holy Cross College (Autonomous), Nagercoil**  
Affiliated to Manonmaniam Sundaranar University  
in Partial Fulfilment of the Requirement  
for the Award of the Degree of  
**BACHELOR OF ARTS**

Submitted by

<b>Name</b>	<b>Reg.No</b>
T. Angelin Suruthi	2021AUE189
J. Arockia Shana	2021AUE191
Arshithya M. Justin	2021AUE193
J. Binola	2021AUE199
E. Anto Caroline	2021AUE447

Under the guidance of

**Ms. A. Judes Jalaja M.A., M. Phil., PGDCA**




**PG & RESEARCH DEPARTMENT OF ENGLISH**  
**HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**  
OCTOBER 2023

**CONSOLIDATED REPORT ON BLOCK PLACEMENT TRAINING**

At  
**GRAMEENA ABHYUDAYA SEVA SAMSTHE**  
Doddaballapura, Karnataka dist.  
18 April 2022 – 10 May 2022

**II semester**  
Submitted by  
**VISMAYA K.K**  
**I MSW**

Under the Guidance of  
**Ms. JINISHA**  
Assistant Professor of Social Work Department  
Holy Cross College



**P.G. DEPARTMENT OF SOCIAL WORK**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
**NAGERCOIL-4**


**A STUDY ON APPLIED STATISTICS IN AGRICULTURE**

Project report submitted to Holy Cross College (Autonomous), Nagercoil  
affiliated to Manonmaniam Sundaranar University in partial fulfillment of the  
requirement for the award of the degree of

**Bachelor of Science in Mathematics**  
submitted by

<b>BINUSHA.R</b>	<b>Reg.No : 2021AUM015</b>
<b>DIVYA G ROSEWIN</b>	<b>Reg.No : 2021AUM021</b>
<b>IGNATIUS CATHRINE SHERLY. A</b>	<b>Reg.No : 2021AUM024</b>
<b>JENISHA KAMALESH. I</b>	<b>Reg.No : 2021AUM028</b>

Under the Guidance of  
**Dr. A. JANCY VINI, M.Sc., M.Phil., SET., Ph.D.**



**DEPARTMENT OF MATHEMATICS**  
**HOLY CROSS COLLEGE (AUTONOMOUS),**  
ACCREDITED WITH A+ GRADE (CGPA 3.35-IV  
CYCLE) BY NAAC  
AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY,  
TIRUNELVELI  
NAGERCOIL - 629 004  
OCTOBER - 2023

## GLOBAL NEEDS

Yoga



Virtual Power Seminar on  
**EFFECTIVE COMMUNICATION SKILLS**  
17 FEB 2021 - 2:00 PM - 3:00 PM

EDITION NO : 1,270

Speaker  
  
**Prasanth**  
Senior DevOps

Hosted by  
DEPARTMENT OF COMPUTER SCIENCE  
HOLY CROSS COLLEGE, NAGERCOIL

(AUTONOMOUS), NAGERCOIL

We cordially invite you to the International French Webinar on  
**"COMPREHEND THE CULTURAL DIFFERENCES: INDIA AND FRANCE"**  
Resource Persons:

**Ms. Prathiba Kothandaraman**  
Professor at Alliance Française of Madras  
English Language Assistant at Lycée Camille Sée, Colmar, France

**Mr. Tom Umbdenstock**  
Journalist - France Culture, sciences humaines, Têtu

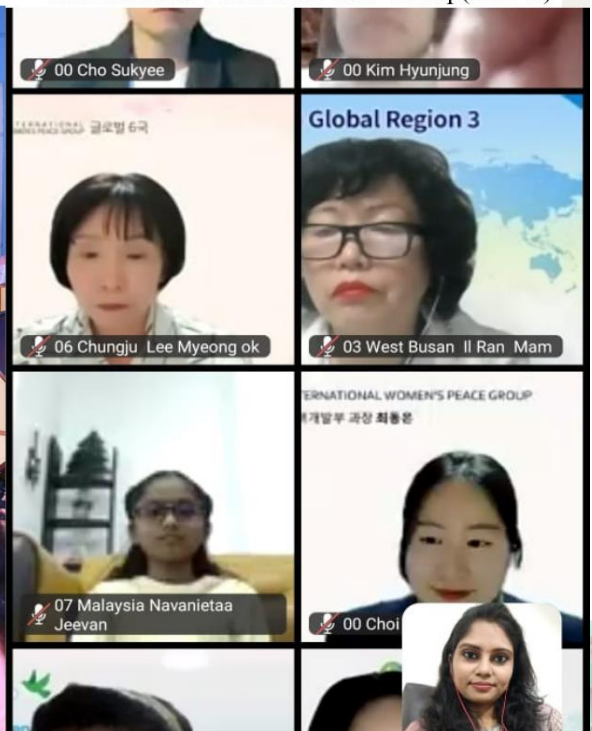
Date: 17.12.2022  
Time: 6.30 pm  
<https://us02web.zoom.us/j/86022265244>

Patrons:  
Dr. Rev. Sr. C. Shilpa, Secretary, St. Mary's College (Autonomous), Thoothukudi  
Dr. Rev. Sr. A.S.J. Lucia Rose, Principal, St. Mary's College (Autonomous), Thoothukudi  
Dr. Rev. Sr. Mary Hilida, Secretary, Holy Cross College (Autonomous), Nagercoil  
Dr. Rev. Sr. Sahayaseeli, Principal, Holy Cross College (Autonomous), Nagercoil

Computer Literacy



International MoU Activity  
International Women's Peace Group(IWPG)



Seminars and Conferences

**REGISTRATION**  
Participants willing to participate and pay the registration fee: 06.02.2024.  
Research Scholars : Rs. 350/-  
Faculty : Rs. 500/-  
Participants include conference kit, documents  
Registration fee should be paid in cash / RTGS/NEFT/NET and upload the transaction registration form.  
**Fee payment**  
Christabel Shaji, Y  
3187724257  
Central Bank of India  
CBIN0283659  
SB account  
Roch Nagar, Nagercoil -4  
9080024245  
**Registration**  
Participants are requested to present through Oral / Poster. All the accepted papers to be submitted in ITFNSD - 2024 ISBN.

**Patron**  
Dr. Sr. M. Mary Gilda  
Secretary, Holy Cross College, Nagercoil

**Chair Person**  
Dr. Sr. S. Sahayaselvi  
Principal, Holy Cross College, Nagercoil

**Convener**  
Dr. M. Anitha Malbi  
Head of the Department of Chemistry

**Organizing Secretaries**  
Dr. S. Ajith Sathya  
Assistant Professor of Chemistry  
&  
Dr. Y. Christabel Shaji  
Assistant Professor of Chemistry

**Organizing Committee**  
Dr. R. Gladis Latha  
Dr. Sr. K. Francy  
Dr. L. Deva Vijila  
Dr. Sheeba Daniel  
Dr. S. Lizy Roselet  
Dr. M. Shirly Treasa  
Dr. B.T. Delma  
Dr. M. Antilin Pincela

Participation and attendance certificates will be provided only to the registered participants who attend all the sessions. For further updates, please visit the college website.  
<https://www.holycrosscollege.edu.in>  
Contact details  
Mobile No: 9080024245; 9943128208



**HOLY CROSS COLLEGE (Autonomous)**  
Accredited with A-Grade (CGPA 3.35 - IV cycle) by NAAC (Affiliated to Manonmaniam Sundaranar University)  
Nagercoil - 629 004, Tamil Nadu  
An ISO 9001:2015 Certified Institution

**INTERNATIONAL CONFERENCE**  
ON  
"INNOVATIVE TRENDS IN FUNCTIONAL NANOMATERIALS FOR SUSTAINABLE DEVELOPMENT"  
(ITFNSD - 2024)



Organized by  
PG & Research Department of Chemistry

Date: 16.02.2024  
Time: 9:30 a.m  
Venue: Multipurpose Hall

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**Department of Botany in Collaboration with IIC**

**"THE ROLE OF TECHNOLOGY IN STUDENT ENTREPRENEURSHIP"**

Resource Person: **Dr. P.Aji Udhaya**,  
Assistant Professor,  
Department of Physics,  
Holy Cross College (Autonomous),  
Nagercoil, Kanyakumari District.

Date : 23.01.2024  
Time : 11.45 a.m To 12.45 p.m  
Venue : Mother Marie Cecile Hall

**National Conference**



**Innovative Reimagining of Language and Literature for Industry 4.0**

Speakers  
29 February 2024 9.15 a.m. - 3.15 p.m. @ MPH

**REIMAGINING LANGUAGE AND LITERATURE TO FIT INDUSTRY 4.0 REQUIREMENTS**  
REV. Dr. Francis M. Peter, S.J  
Province Advisor, Educational Resource & Research Centre,  
Former Professor, XLRI School of Business, Jamshedpur.

**PEOPLE AND TECHNOLOGY IN INDUSTRY 4.0 : CHANGING WORLD ORDER**  
Mr. U. Peter Sahaya Raj  
MD & CEO, INDYGENOUS FASHIONS, Chennai.

**WRITING FOR THE NEW MEDIA**



**Technical session - I - 10.30 a.m. - 12:00 noon**  
Topic : Adaptation of Industry 4.0 in Smart Agriculture

**Resource Person**  
Dr. J. Collins Johny, Assistant Professor, Department of Civil Engineering, University College of Engineering, Nagercoil

**Technical Session - II - 1.00 p.m. - 2.30 p.m.**  
Topic - Satellite Image Based Estimation of Phytoplankton (Chl-a) and Its Seasonal Variability

**Resource Person**  
Dr. S. Kallraj, Scientist - D, Biogeochemistry Group National Centre for Earth Science Studies (NCESS) Ministry of Earth Sciences, Government of India Thiruvananthapuram, Kerala

**Organizing Committee**

**PATRON**  
Dr. Sr. Mary Hilda, Secretary.

**CHAIR PERSON**  
Dr. Sr. Sahayaselvi, Principal.

**CONVENER**  
Dr. A. Anami Augustus Arul, Head, Department of Botany, Holy Cross College (Autonomous) Nagercoil.

**ORGANIZING SECRETARIES**  
Dr. A. Anami Augustus Arul & Dr. Sr. Letitia Rose Vice Principal, Assistant Professor, Department of Botany, Holy Cross College (Autonomous) Nagercoil.

**ORGANIZING MEMBERS**  
Dr. Bojaja A. Rosy  
Dr. A. R. Florence  
Dr. J. Albino Wine  
Dr. J. Celin Pappa Rani  
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Dr. W. Vinicy

**Holy Cross College (Autonomous), Nagercoil -4**  
Accredited with A-Grade (CGPA - 3.35) by NAAC (Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

**National Seminar on "Synergizing Satellite-Based Phytoplankton Monitoring with Industry 4.0 for Sustainable Smart Agriculture"**  
1 March, 2024

Organized by  
PG and Research Department of Botany  
Holy Cross College (Autonomous) Nagercoil - 629 004.



**HOLOGRAPHIC EXHIBITION**  
9.30 am to 10.30 am

**Keynote Address : Dr. Sandra Pinelas**  
Academia Militar, Departamento de Ciencias Exatas e Naturais, Av. Gonca Castro Guimarães, 2720-113, Amadora, Portugal.  
*Topic: Bifurcation Equations with Impulse*

**Technical Session I : 11:00 am -12:00 am**  
**Dr. Sandra Pinelas**  
Academia Militar, Departamento de Ciencias Exatas e Naturais, Av. Gonca Castro Guimarães, 2720-113, Amadora, Portugal.  
*Topic: Bifurcation Equations with Impulse*

**Technical Session II : 12:00 pm - 1:00 pm**  
**Dr. C. Brito Antony Xavier**  
Associate Professor of Mathematics, Sacred Heart College (Autonomous), Tirupattur-635 601.  
*Topic: Bivariate Graphs of Exponential Functions with Applications*

**Lunch Break**  
*Paper Presentation: 2:00 pm - 3:30 pm*

**Day II**

**Technical Session III : 9:30 am -10:30 am**  
**Dr. A. Rizwana**  
Assistant Professor of Mathematics, V.K.R. Sankaranarayanan Murug College (Autonomous), Vellore-628 001.  
*Topic: Topological Indices and Energy in Graphs*

**Technical Session IV : 11:00 am -12:00 am**  
**Dr. J. Paulraj Joseph**  
Professor & Head (Rtd), Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli - 627 012.  
*Topic: Recent Developments in Graph Theory*

**ORGANIZING BOARD**

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**Chairperson**  
Dr. Sr. Sahayaselvi  
Principal, Holy Cross College (Autonomous), Nagercoil.

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Dr. T. Sheeba Helen  
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Holy Cross College (Autonomous), Nagercoil.

**Advisory Committee**  
Dr. J. George Maria Selvaraj  
Head and Associate Professor of Mathematics  
Sacred Heart College (Autonomous), Tirupattur.  
Dr. G. Brito Antony Xavier  
Editor in Chief, Journal of Computational Mathematics  
Associate Professor of Mathematics  
Sacred Heart College (Autonomous), Tirupattur.  
Dr. J. Paulraj Joseph  
Professor & Head (Rtd), Department of Mathematics,  
Manonmaniam Sundaranar University,  
Tirunelveli - 627 012.

**Organizing Secretaries**  
Dr. J. Bejina Minnie  
Assistant Professor of Mathematics,  
Holy Cross College (Autonomous), Nagercoil.  
Dr. A. Jancy Viji  
Assistant Professor of Mathematics  
Holy Cross College (Autonomous), Nagercoil.

**Contact for Further details**  
Dr. J. Bejina Minnie - 9442218411  
Email: bejiminnee@holycrosscollege.edu.in

**PG AND RESEARCH DEPARTMENT OF MATHEMATICS**

**HOLY CROSS COLLEGE (AUTONOMOUS)**  
Affiliated to Manonmaniam Sundaranar University Accredited with A-Grade (CGPA 3.35) by NAAC-IV Cycle Nagercoil-629 004, Kanyakumari District, Tamil Nadu, India

In collaboration with the  
**DEPARTMENT OF MATHEMATICS Sacred Heart College (Autonomous)**  
Tirupattur District - 635 601  
Tamil Nadu, India

**International Conference on Harmonizing Graph Theory and Differential Equations in the Age of Industry 4.0**  
ICHGD-2024  
On 12<sup>th</sup> and 13<sup>th</sup> February 2024

**Venue: Multipurpose Hall**

Sample Projects

**FT-IR SPECTRAL INVESTIGATION OF ADULTERANTS IN PEPPER**

*Submitted to Holy Cross College (Autonomous), Nagercoil, affiliated to Manonmaniam Sundaranar University in partial fulfillment of the requirement for the award of the Degree of*


**Bachelor of Science in Physics**

by

Miss. VAIKUNDA KOWSIKA.M.M	Reg No: 2020AUP074
Miss. MARY ASHA. J	Reg No: 2020AUP061
Miss. ABISHA RANLV	Reg No: 2020AUP041
Miss. NAVISHA MONL W	Reg No:2020AUP063

*Under the guidance of*

**Dr. Jenepha Mary, MCA, M.Sc., Ph.D**



DEPARTMENT OF PHYSICS  
HOLY CROSS COLLEGE (AUTONOMOUS)  
NAGERCOIL-629 004  
2022-2023

**Technology Enabled Language Teaching using Computer Assisted Language Learning (CALL) and Mobile Assisted Language Learning (MALL)**

DISSERTATION SUBMITTED TO  
HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL  
[MANONMANIAM SUNDARANAR UNIVERSITY]  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF THE DEGREE OF  
MASTER OF ARTS

submitted by

**Monica Prems - Reg. No. 219156**  
and  
**Sahaya Drishiya Raj. M - Reg. No. 219161**

under the guidance of  
**Dr. P. Sathya, M.A., B.Ed., M.Phil., Ph.D.**



**P.G & Research Department of English**  
**Holy Cross College (Autonomous)**  
**Nagercoil-4**

**FRACTAL GEOMETRY – MATH BEHIND THE BEAUTY**

Project report submitted to Holy Cross College (Autonomous), Nagercoil Affiliated to Manonmaniam Sundaranar University in partial fulfilment of the requirements for the award of the degree of

**Bachelor of Science  
in  
Mathematics**

By

- |                                |                |
|--------------------------------|----------------|
| <b>1. Kavitha Sharmi J.</b>    | <b>2019020</b> |
| <b>2. Kirthikaa K.</b>         | <b>2019021</b> |
| <b>3. Serene R.</b>            | <b>2019037</b> |
| <b>4. Uma Priyaadarsini M.</b> | <b>2019048</b> |

Under the Guidance of  
**Dr. S. Sujitha, M.Sc., M.Phil., B.Ed., Ph.D.**



**DEPARTMENT OF MATHEMATICS**  
**HOLY CROSS COLLEGE (AUTONOMOUS),**  
**NAGERCOIL – 629 004.**  
**DECEMBER– 2021**

**A HUB FOR TRACKING HEALTH**

A Project Report submitted in partial fulfillment of the Requirement for the degree of

**BACHELOR OF COMPUTER SCIENCE**  
Manonmaniam Sundaranar University, Tirunelveli

Submitted by

- |                            |                     |
|----------------------------|---------------------|
| <b>SAHAYA SUBIKSHA S A</b> | <b>(2021SUS048)</b> |
| <b>SEETHALAXMI V</b>       | <b>(2021SUS049)</b> |
| <b>BHAHIMA MUNAWARA B</b>  | <b>(2021SUS031)</b> |

Under the Guidance of  
**Dr. S. IMMACULATE SHYLA M.C.A., M.Phil., Ph.D**



**DEPARTMENT OF COMPUTER SCIENCE**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
**NAGERCOIL – 629 004**