



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

3.7.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during 2019-2020

Department of Mathematics

MOU: Sacred Heart College, Tirupattur

Activity: Publication in the Journal of Computational Mathematica

Date: 30-06-2019

Beneficiaries: 2

ISSN: 2456-8686, Volume 3, Issue 1, 2019:1-5
DOI : <http://doi.org/10.26524/cm42>



Journal of Computational Mathematica

Open Access

Hausdorff Property of Transformation Graphs

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Nagercoil, Tamil Nadu, India.

Abstract

A Hausdorff graph G is a simple graph in which any two vertices u and v of G satisfy atleast one of the following conditions: (i) both u and v are isolated vertices (ii) either u or v is an isolated vertex (iii) there exists two non-adjacent edges e_1 and e_2 of G such that e_1 is incident with u and e_2 is incident with v . In this paper, we investigate Hausdorff property on transformation graphs.

Key words: Hausdorff Graph, Transformation Graph.

AMS classification: 05C76, 05C99.

1. Introduction

In [5], eight types of transformation graph were introduced and their basic properties were studied. Several authors have worked on these eight types of transformation graph separately. In [2], B. Wu, L. Zhang, Z. Zhang obtained a necessary and sufficient condition for G^{+++} to be hamiltonian.

Let $G = (V(G), E(G))$ be a simple undirected graph and x, y, z be three variables taking values $+$ or $-$. The transformation graph G^{xyz} is the graph having $V(G) \cup E(G)$ as a vertex set, and two vertices α and β of G^{xyz} are adjacent if and only if one of the following conditions holds: (i) for $\alpha, \beta \in V(G)$, α and β are adjacent in G if $x = +$; α and β are not adjacent in G if $x = -$ (ii) for $\alpha, \beta \in E(G)$, α and β are adjacent in G if $y = +$; α and β are not adjacent in G if $y = -$ (iii) for $\alpha \in V(G)$, $\beta \in E(G)$, α and β are incident in G if $z = +$; α and β are not incident in G if $z = -$. Secna and Raji introduced Hausdorff properties in [3] and they discussed Hausdorff property of some derived graphs. A Hausdorff graph G is a simple graph in which any two vertices u and v of G satisfy atleast one of the following conditions: (i) both u and v are isolated vertices (ii) either u or v is an isolated vertex (iii) there exists two non-adjacent edges e_1 and e_2 of G such that e_1

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Department of Physics

MOU: Tamil Nadu Scientific Research Organisation, Pudukottai, Tamil Nadu

Activity: Endowment Lecture on Astronomy and Astrophysics

Date: 05-09-2019

Beneficiaries: 71

The endowment lecture was conducted for the UG and PG final year students on 05.09.2019. The meeting started with the prayer song. Dr. S. Mary Delphine, Head of the Department of Physics gave the introduction about the endowment lecture and welcome address. Mr. Viji Kumar Sahadevan, Director, TNSRO, Puthukottai, gave a lecture entitled “Astronomy and Astrophysics”. He explained the universe and formation of stars. The meeting was ended with the vote of thanks by Dr. S. Sonia, Assistant Professor, Department of Physics. 60 students and all the Faculty members of Physics Department were benefited through this programme.



Department of Physics

MOU: Annai Best Care Computer Clinic and Education, Nagercoil, Tamil Nadu

Activity: Summer Training Programme

Date: 22-11-2019 to 27-11-2019

Beneficiaries: 25

Department of Physics
Holy Cross College (Autonomous)
Nagercoil

in collaboration with

ANNAI BEST CARE
Computer Clinic & Education
(B.O: Tiruppur Tech Club - Tiruppur)
NAGERCOIL-629002, KANNIYAKUMARI DT, TAMILNADU, INDIA

Certificate


Enroll.No: 2019B0107 Course Code: H17STP Certificate No: A1429

This is to certify that Miss **BELCY. T (II MSc., Physics)**

has successfully completed the course in **COMPUTER HARDWARE**

from **22/11/2019** to **27/11/2019** and secured **A+** grade.

Marks	Grade
80 & Above	A+
60-79	A
50-59	B



S. H. Delphine
Head of the Department
Dr. S. MARY DELPHINE, M.Sc. Ph.D.,
ASSOCIATE PROFESSOR IN
HOLY CROSS COLLEGE
NAGERCOIL - 629 004.

[Signature]
Director of ABC

[Signature]
Controller of Examination
CONTROLLER OF EXAMINATIONS
HOLY CROSS COLLEGE
AUTONOMOUS
NAGERCOIL - 4



Department of Physics
Holy Cross College (Autonomous)
Nagercoil

in collaboration with

ANNAL BEST CARE
Computer Clinic & Education
(B.O: Tiruppur Tech Club - Tiruppur)
NAGERCOIL-629002, KANNIYAKUMARI DT, TAMILNADU, INDIA

Certificate


Enroll.No: 2019B0116 Course Code: H17STP Certificate No: A1438

This is to certify that Miss MARIA CLANCY VICTORIA . A (II MSc., Phy)

has successfully completed the course in.....COMPUTER HARDWARE.....

from 22/11/2019 to 27/11/2019 and secured...A+... grade.

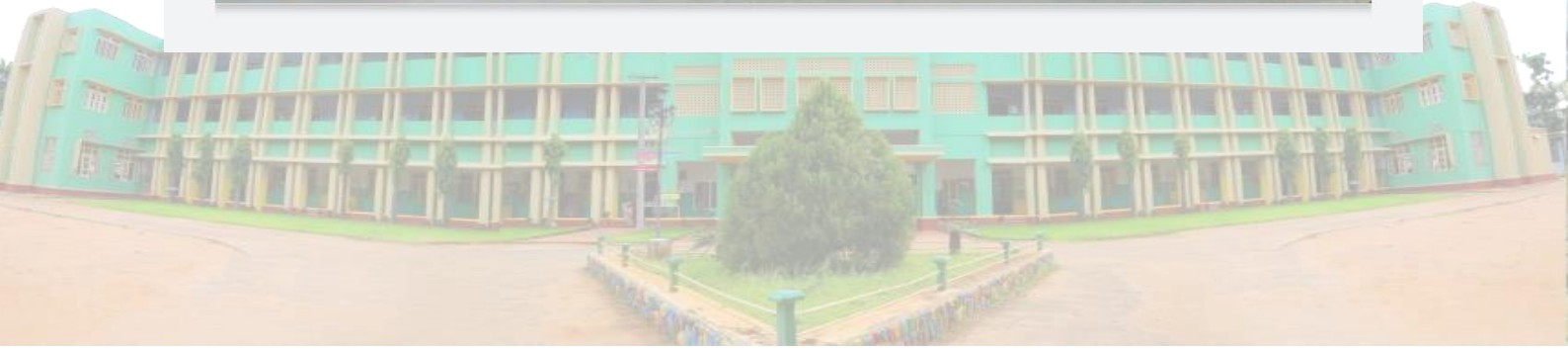
Marks	Grade
80 & Above	A+
60-79	A
50-59	B



S. H. Delphine
Head of the Department
Dr. S. MARY DELPHINE, M.Sc., Ph.D.,
HEAD ASSOCIATE PROFESSOR IN PHYSICS,
HOLY CROSS COLLEGE,
NAGERCOIL-629002

[Signature]
Director of ABC

[Signature]
Controller of Examination
CONTROLLED BY EXAMINATION
HOLY CROSS COLLEGE,
NAGERCOIL-629002



Department of Botany

MOU: Centre for Marine Science and Technology

Activities: Faculty Exchange Programme

Date: 12-03-2020 & 13-03-2020

Beneficiaries: 2



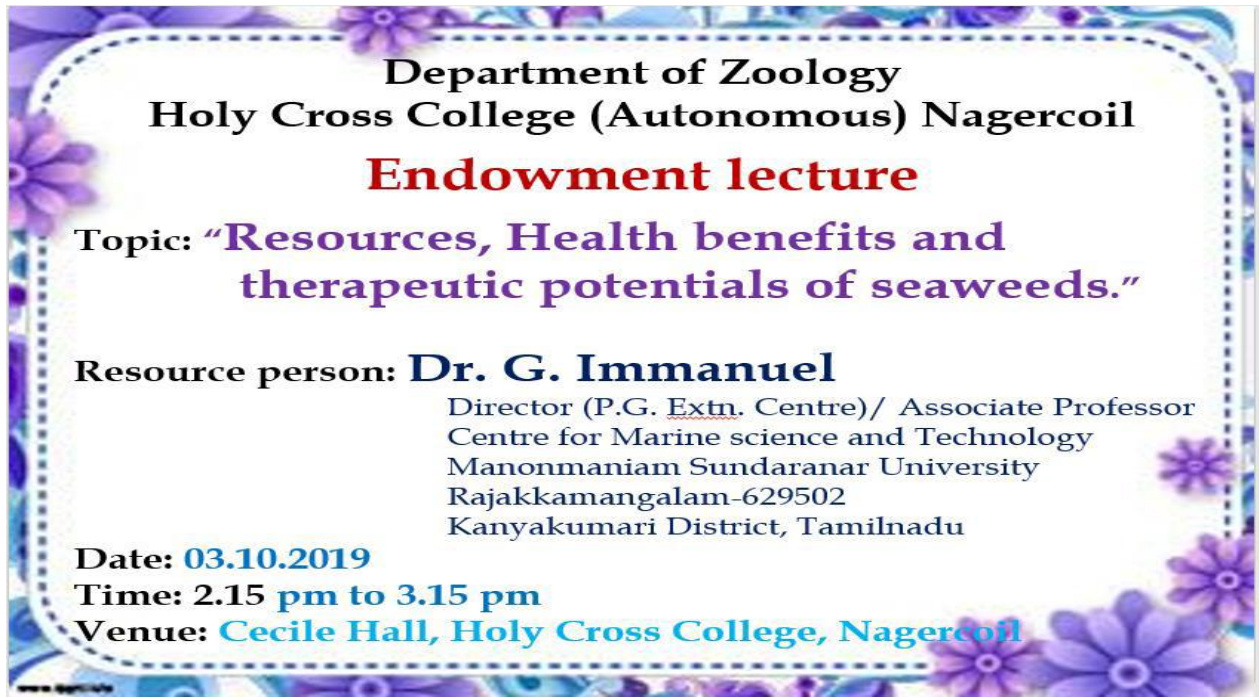
Department of Zoology

MOU: Centre for Marine Science and Technology

Activities: Endowment Lecture on “Resources, Health benefits and therapeutic potentials of seaweeds”

Date: 03-10-2019

Beneficiaries: 135



Department of Zoology
Holy Cross College (Autonomous) Nagercoil
Endowment lecture
Topic: “Resources, Health benefits and therapeutic potentials of seaweeds.”
Resource person: Dr. G. Immanuel
Director (P.G. Extn. Centre)/ Associate Professor
Centre for Marine science and Technology
Manonmaniam Sundaranar University
Rajakkamangalam-629502
Kanyakumari District, Tamilnadu
Date: 03.10.2019
Time: 2.15 pm to 3.15 pm
Venue: Cecile Hall, Holy Cross College, Nagercoil



Department of Zoology

MOU: Centre for Marine Science and Technology

Activities: International Conference on Recent Advancements of Biomolecule Inventions

Date: 26-07-2019 to 27-07-2019

Beneficiaries: 198

Invited Speakers

Dr. Sreeramanan, School of Biological Sciences, Universiti Sains, Malaysia.
Topic: Plant Biotechnology: The challenges and opportunities.

Dr. ONG Ming Thong, Universiti Sains, Malaysia.
Topic: WIS-3: a molecular Janitor?

Prof. K. Marimuthu, Department of Biotechnology, AIMST University, Malaysia.
Topic: Application of Herbal Immunomodulators in Aquaculture.

Dr. P. Velusamy, Department of Biotechnology, SRM University, Chennai, Tamil Nadu, India.
Topic: Development of Dual-Responsive Biopolymer in the Design of Smart Nano-Drug Delivery towards Infectious Diseases.

Dr. S. Karthikeyan, School of Biosciences and Technology, Vellore Institute of Technology, Vellore, Tamil Nadu, India.
Topic: Biology and Future of Industrial Development.

Dr. C. Ravi, Department of Zoology and Microbiology, Thiagarajar College (Autonomous), Madurai, Tamil Nadu, India.
Topic: Biodegradation of chicken feather.

Dr. S. R. R. Reddy, Principal (Ret.), Department of Zoology, Holy Cross College, Nagercoil.

Topic: Lactin - A versatile tool for biomedical research.

Address for Communication

The Organizing Secretaries

International Conference on "Recent Advancement of Biomolecule Inventions"
Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Tamil Nadu, India.
Phone: +91 94471 21000, +91 94471 21002
Email: vcrs@hccollege.ac.in, vcrs@hccollege.ac.in

Registration Form

International Conference on "Recent Advancement of Biomolecule Inventions"
26th and 27th July 2019

Name : Mr/Ms/Ds _____
Designation: Scientist/ Faculty / Scholar / Student _____
Institution : _____
Address : _____

Contact No. : _____
E-mail ID : _____
Registration fee of Rs. _____
(Payment Reference No. _____)
Paid details : _____ (in enclosed)
Whether Presenting Paper: Yes / No _____
If yes, Title : _____

Signature: _____
Please send the filled in registration form in organizing secretaries
- Photocopy of the registration form can also be send.
- No TA, DA and Accommodation will be provided to the participants.

1st International Conference on "Recent Advancement of Biomolecule Inventions"- (RABI19)



Organized by
Department of Zoology
Holy Cross College (Autonomous)
Affiliated to Manonmaniam Sundaranar University
Re-accredited with 'A' Grade (CGPA 3.34) by NAAC
Nagercoil, Tamil Nadu, India.

In collaboration with


Foundation for Innovative Research in Science and Technology
(FIRST Trus)
Nagercoil, Tamil Nadu, India.

On
26th and 27th July, 2019
Venue
Multipurpose Hall
Holy Cross College (Autonomous)
Nagercoil – 629 004, Tamil Nadu, India.

About the College

Holy Cross College, Nagercoil the first Women's College in Kanyakumari District administered by the Congregation of the Sisters of the Cross of Chavmoor was established in 1965 and raised to an autonomous status in 2007-2008. The College stands for total liberation and development of the students in order to prepare them to take their rightful place and responsibility in the society. It offers 15 UG, 12 PG, 4 M.Phil. and 9 Ph.D. programs. Holy Cross College is known for its unique discipline and academic excellence.

Department of Zoology

The Department of Zoology is a renowned centre for learning, research and extension activities. The Department of Zoology established in 1966 was raised to a P.G. Department in 1979, Research Department in the year 2000 and became full-fledged with the introduction of M.Phil. in 2009. An UGC sponsored 'UG Vocational Sericulture' and innovative 'M. Sc. Biomedical Sciences' Program was established in 1999 and 2006 respectively. The department has a well-equipped DST - FIST sponsored laboratory. It has taken a lead role in educating young girls from the economically and socially disadvantaged sections and empowering them to become academicians, scientists and entrepreneurs. The thrust areas of research are Immunology, Crustacean Physiology, Endocrinology, Integrated Pest Management, Radiation Biology, Environmental Biology and Molecular Taxonomy. The main objective of the department is to promote academic skills, research aptitude and societal commitment.

About FIRST Trust

The FIRST Trust is a research organization that advances in sciences and humanities for public use. Our organization is a registered NGO in India, working on special projects and social support to the under privileged community to protect them and empower them to be self-sufficient in the future. Our FIRST Trust NGO also provides scientific research, health education, rural employment generation, environmental conservation etc. to the community who reside in rural area. In addition, we support researchers from the under represented areas, weaker and marginalized segment of the society to bring out their innovations. We have been carrying out various programs designed meticulously after careful analysis of various socio- economic problems for sustainable development of the community.

About the conference

This conference aims to bring together Academicians, Scientists, Research scholars and Students to share and disseminate information on knowledge and scientific research works related to above topics and confers the practical challenges encountered and the solutions adopted. The conference will create a path to establish a research relation for the authors and listeners with opportunities for National and International collaboration and networking among the Universities and Institutions from India and abroad for promoting research and developing technologies. It brings about the knowledge on product development and commercialization which involves refinement and fine-tuning of product prototypes to address specific market demands as well as demonstration projects. This conference educates to evaluate the usefulness of a product and learn how it might be used in their applications.

Thrust areas

- Agriculture, Fisheries and Food
- Behavioural sciences
- Entomology
- Parasitology
- Biology, Biochemistry and Biotechnology
- Immunology
- Plant Sciences
- Toxicology
- Virology
- Nanotechnology
- Pharmacology
- Mycology
- Genetics
- Microbiology
- Zoology
- Veterinary Sciences
- Anatomy and Morphology

Submission of Abstracts

Extended abstracts with introduction of the topic, area of the study, methods followed, key results and conclusion along with key words limited to 300 words and typed using MS-Word, Times New Roman with font size 12 to be sent to the Organizing Secretaries through e-mail on or before the last date mentioned below. The theme under which it has to be listed for presentation and discussion needs to be indicated. The oral presentation shall be presented in a power point presentation (PPT) mode for 5 minutes and 1 minute discussion (Total 6 minutes). Poster Presentation shall be prepared as the poster mode of presentation (Size of Poster: 3 Feet (Height) X 2 Feet (Width). Kindly avoid flex posters.

Awards

To encourage bright young researchers in the field of life sciences, a committee of academicians and scientist experts would judge the papers and decide on the awards. In order to identify outstanding work by the participants, the Best Presentation Award will be given for an excellent presentation of the conference RABI19. Two papers will be selected for the best oral / poster award.

IMPORTANT DATES

Due date for the submission of Abstract and full length paper : 10.7.2019
Notification of Acceptance : 20.7.2019

Registration Fees

Scientists and Faculty	: Rs. 750/-
Research scholars	: Rs. 500/-
Students	: Rs. 300/-
International participants	: \$ 100/-

Delegates are requested to send their registration fee through money transfer by IMPS/ NEFT/ RTGS to the below account holder
Name: Foundation for Innovative Research in Science and Technology Trust
Bank Name: Indian Overseas Bank
Account No: 13440200009979
IFSC: IOBA0001344

Those who present papers should pay an additional amount of Rs. 100/- per presentation.

Spot Registration:
You may directly come to the registration counter at the conference venue and register yourself with cash and collect your conference kit and the badge to participate in the conference.

Organizing Committee

Chair:
Dr. Sr. Gevartina Jayan
Secretary, Holy Cross College (Autonomous), Nagercoil.

Chairperson:
Dr. Sr. Anne Parvath Saptha
Principal, Holy Cross College (Autonomous), Nagercoil.

Convener:
Dr. S. Mary Mathias
Head, Department of Zoology, Holy Cross College (Autonomous), Nagercoil.

Co-Convener:
Mrs. S. Shobha
Organizing Secretary, FIRST Trust, Nagercoil, Tamil Nadu, India.

Organizing Committee members:
Dr. S. Retika Ranjita, Associate Professor in Zoology, Holy Cross College, Nagercoil.
Dr. A. Shyla Sangeetha, Assistant Professor in Zoology, Holy Cross College, Nagercoil.
Dr. P. T. Arathy Geary, Assistant Professor in Zoology, Holy Cross College, Nagercoil.
Dr. Jon Chander Partho, Assistant Professor in Zoology, Holy Cross College, Nagercoil.
Dr. C. Josephine Priyadarshini, Assistant Professor in Zoology, Holy Cross College, Nagercoil.





Department of Zoology

MOU: Centre for Marine Science and Technology

Activities: International Conference on Recent Advancements of Biomolecule Inventions

Date: 26-06-2019

Beneficiaries: 45

Research Colloquium

The Department of Zoology, Holy Cross College, is glad to organise a 'Research Colloquium' on Wednesday, the 26th June 2019 at 2 pm in the Main Lab of the Department of Zoology, Holy Cross College, Nagercoil.

The Colloquium is part of the Collaboration between Department of Zoology, Holy Cross College, Nagercoil & Dr. M. Jayalakshmi, School of Biological Sciences, Madurai Kamaraj University, Madurai and we expect this event to serve as a platform for research scholars to exchange ideas and experiences. It would also provide an opportunity for the scholars to get new ideas during their research tenure.

Topics

- ❖ Scientific Writing
- ❖ How to publish the Research findings

The colloquium is open to the scholars and faculty.

We cordially invite you all to join us.



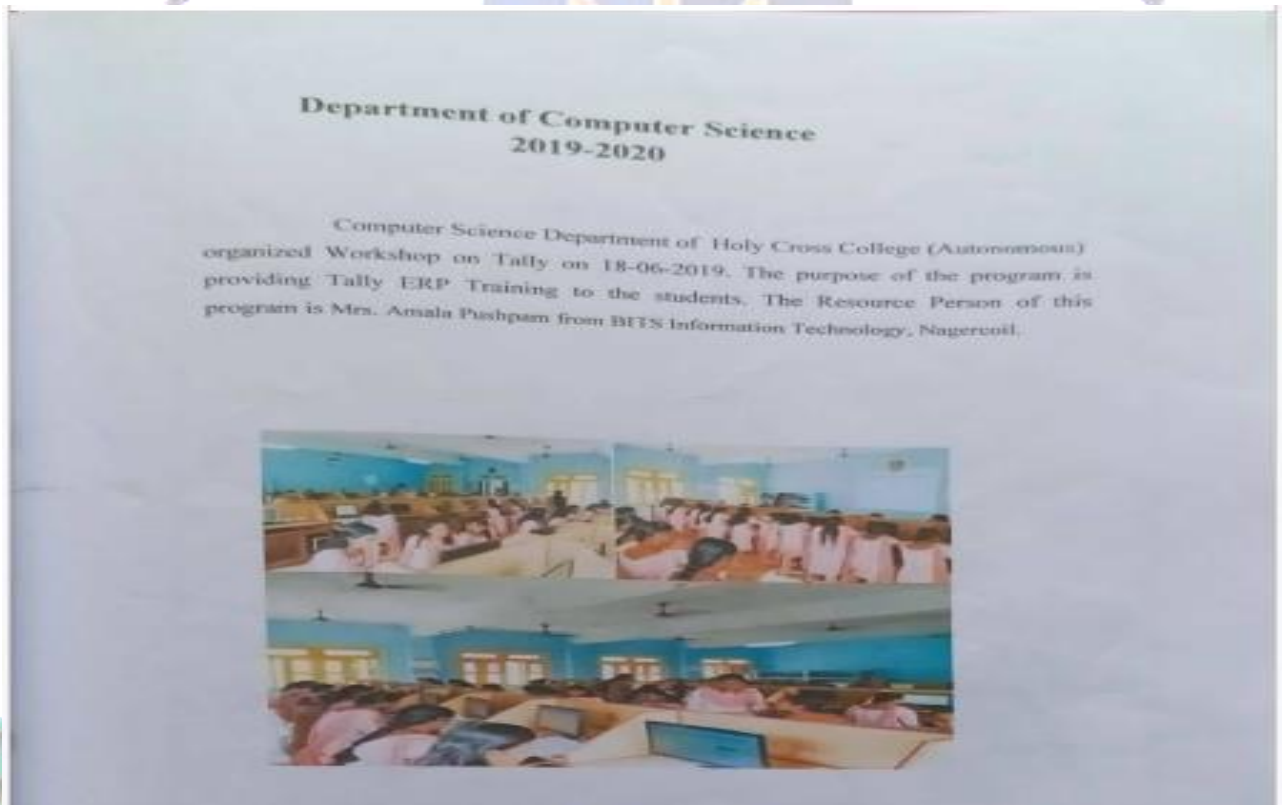
Department of Computer Science

MOU: BITS Informaton Technology

Activity: Tally ERP Training

Date: 18-06-2019

Beneficiaries: 48



Department of Computer Science

MOU: Livewire CADD Training Centre

Activity: Workshop on Cloud Computing

Date: 28-06-2019

Beneficiaries: 48



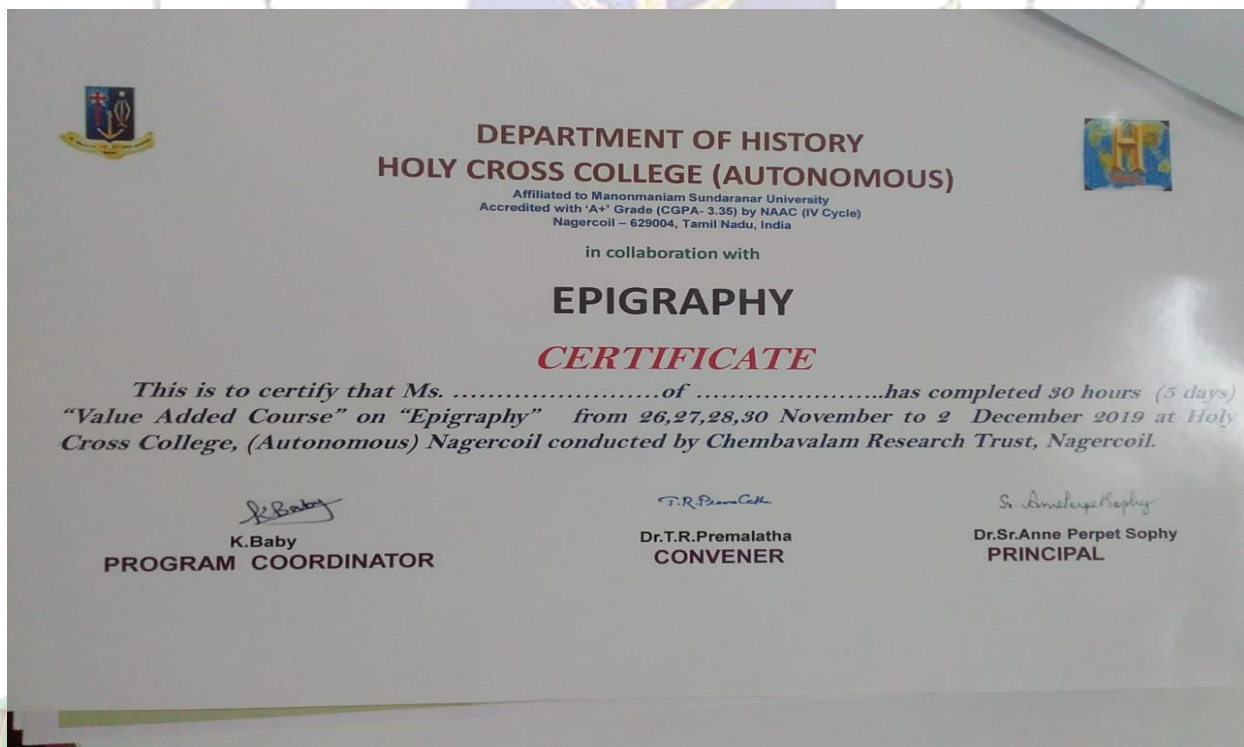
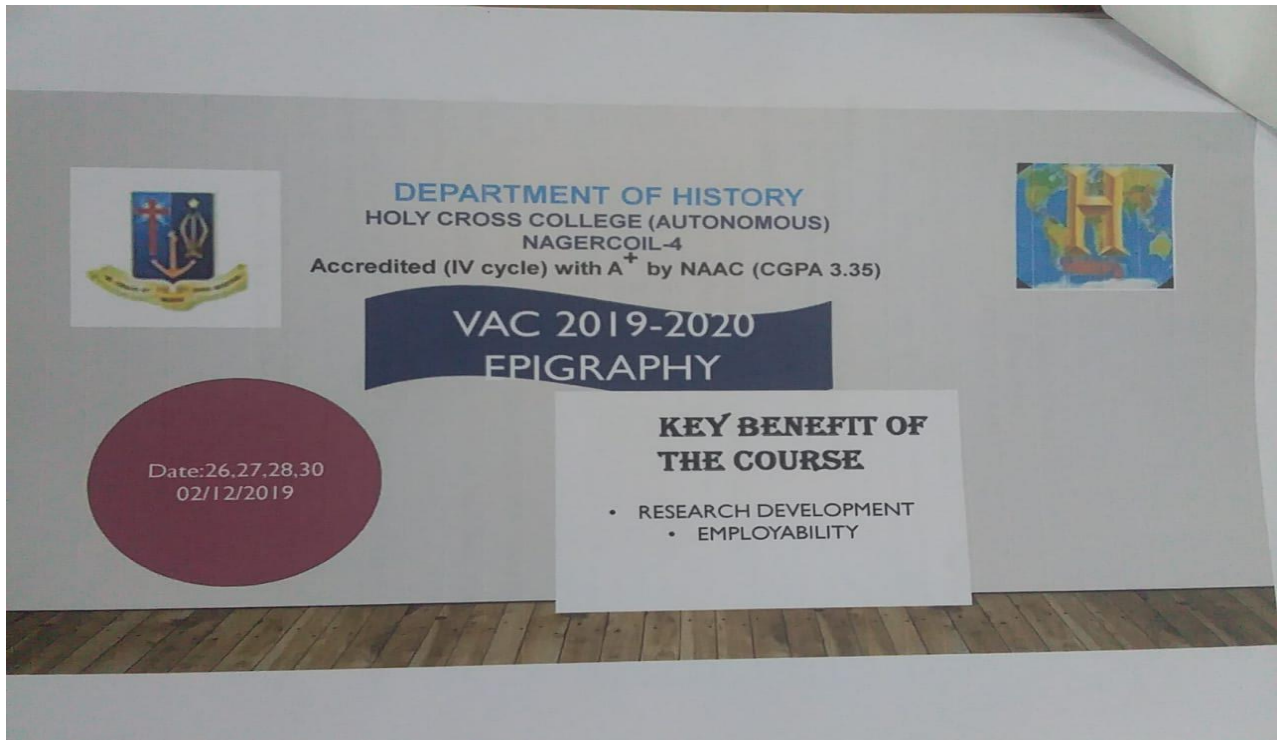
Department of History

MOU: Chembavelam Research Base Trust, Nagercoil

Activities: Value Added Course

Date: 26-11-2019 to 02-12-2019

Beneficiaries: 39



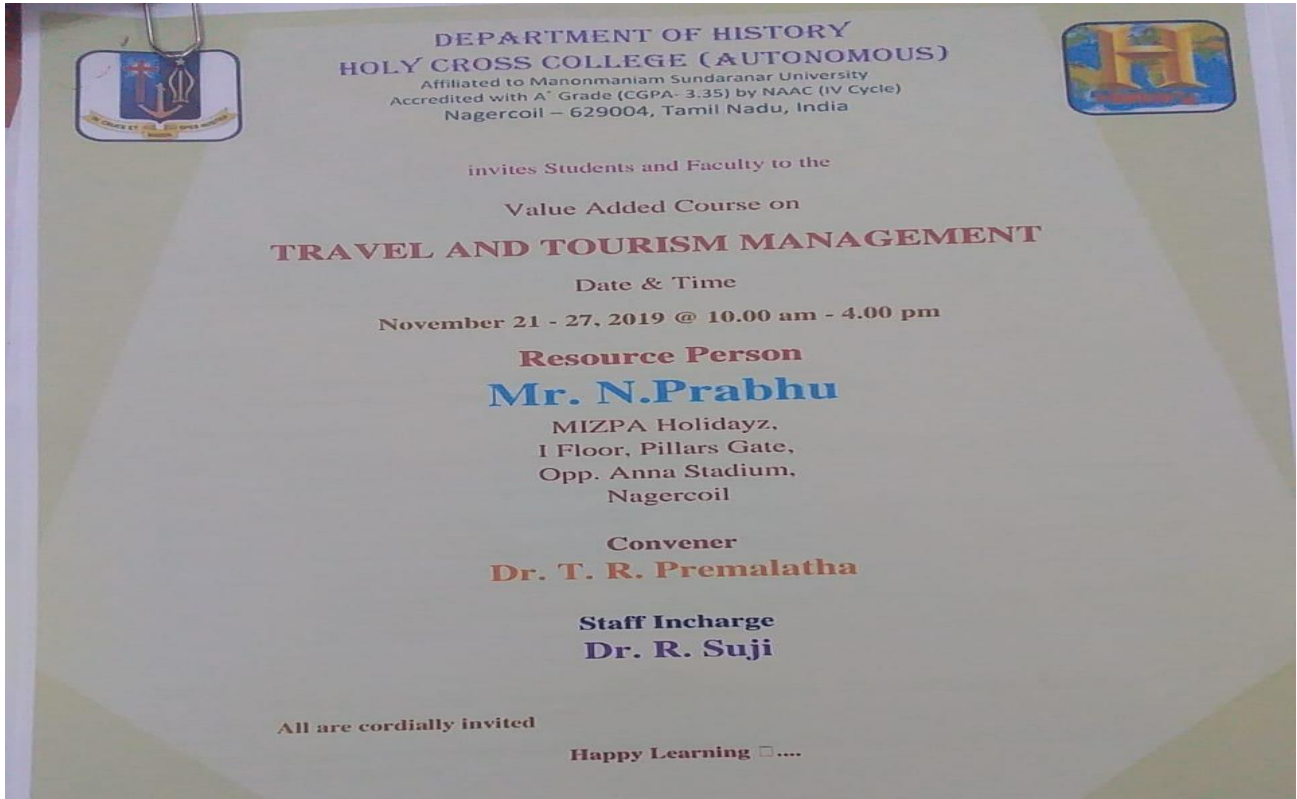
Department of History

MOU: Mizpa Holidayz

Activities: Value Added Course

Date: 21-11-2019 to 27-11-2019

Beneficiaries: 50



Department of Economics

MOU: Scientific Research Association for Economics and Finance (SRAEF)

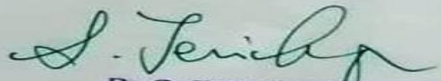
Activity: Know Your Economy Test

Date: 10-02-2020

Beneficiaries: 72

2019-20

The Department of Economics in collaboration with Scientific Research Association for Economics and Finance (SRAEF), Chennai conducted a test on 10th February, 2020. The title of the test was, 'Know Your Economy' totally 72 students participated. After the test, the answer scripts were evaluated. Sr. Clara of II M.A Economics scored the first mark, Sr. Barkmans Prema of I M.A Economics scored the second mark and Elizabeth Lipna of III B.A Economics scored the third mark. The winners who secured the highest marks were honoured with prizes.


Dr. S. JENI SANJANA
Head of the Department
Department of Economics
Holy Cross College (Autonomous)
Nagercoil



Latitude: 8.154526
Longitude: 77.414497
Accuracy: 23.9m
Time: 02-10-2020 11:12
Note: know your economy test



Department of Commerce (Aided)

MOU: LEXETA English and Soft Skill Academy

Activity: Value Added Course on Business Communication Training

Date: 01-02-2020, 08-02-2020, 14-02-2020, 15-02-2020, 29-02-2020, 14-03-2020

Beneficiaries: 165

LEXETA ENGLISH AND SOFT SKILLS ACADEMY

30 Hours Value Added Course
on
English Communication Skill

KEY BENEFITS OF THE COURSE

- Able to communicate in English
- Avoids communication breakdowns
- Overcomes communication fears
- Face the job market with confidence

the power of
communication

relationship value customer success loyalty

lexeta
English & Softskills Academy
33-B1, Vedananda St., Nagercoil - 629001.

Certificate of Merit

Issued to
AFRIN SULAIHA M
of
Department of Commerce, Holy Cross College, Nagercoil
for her attendance and participation in the English Communication Skill
Classes for 30 Hrs. from 3rd August to 21st August 2020

Mariadasan,
Managing Director

22/04/2024 11:15

REDMI NOTE 8
AI QUAD CAMERA

Department of Commerce (Aided)

MOU: BITS Information Technology, Nagercoil

Activity: Value Added Course on Tally ERP 9

Date: 5-12-2019 to 07-12-2019, 23-12-2019, 26-12-2019 to 31-12-2019, 16-01-2020 to 19-01-2020

Beneficiaries: 165

30 HOURS VALUE ADDED COURSE

ON

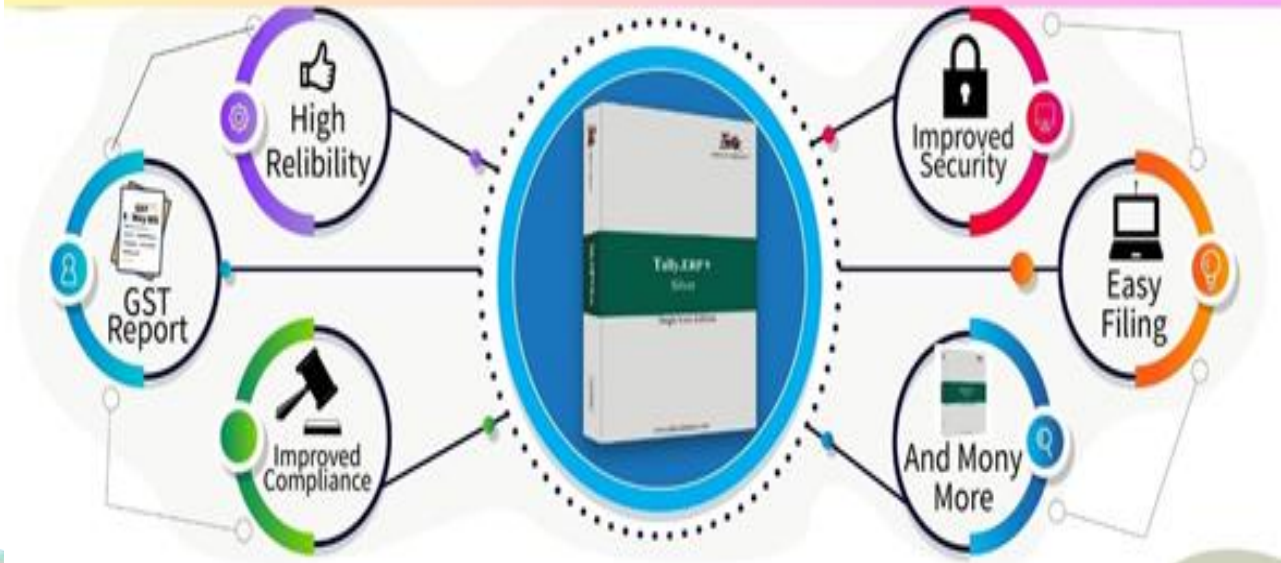
work smart with TALLY.ERP 9

Tally
POWER OF SIMPLICITY



Key Benefits of the Course:

- Ø POST-DATED CHEQUE MANAGEMENT
- Ø AUTO OR MANUAL BANK RECONCILIATION
- Ø CHEQUE BOOK MANAGEMENT & CHEQUE PRINTING
- Ø CAPTURING BANK DETAILS AND TRANSACTION TYPES
- Ø CALCULATION OF INTEREST BASED ON RECONCILIATION DATE





Childline

MOU: Childline India Foundation Mumbai

Activity: Awareness Programme on Girl Child Protection

Date: 03-03-2020

Beneficiaries: 72

The nodal officer of childline, Kanyakumari District gave an awareness talk on Girl Child Protection to the students on 03-03-2020.

