COLLABORATIVE INITIATIVES

Department of Mathematics

MOU : Sacred Heart College, Tirupattur

Activity : Publication in the Journal of Computational Mathematica

Date : 30-06-2019

Beneficiaries : 2

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Journal of Computational Mathematica

Open Access

Hausdorff Property of Transformation Graphs

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Abstract

A Hausdorff graph G is a simple graph in which any two vertices u and v of G satisfy at least 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 α , $\beta\in V(G)$, α and β are adjacent in G if x=+; α and β are not adjacent in G if x=- (ii) for x=- (iii) for x=- (

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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.



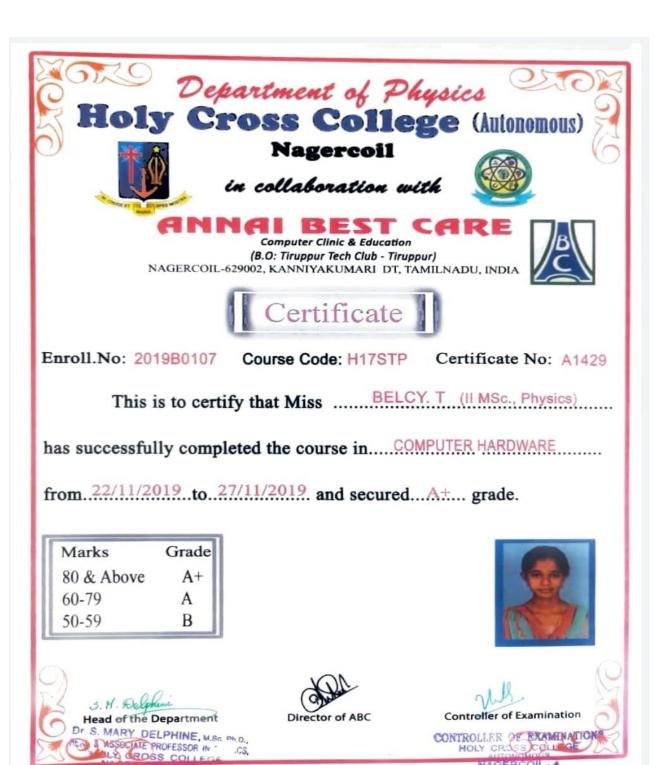
Department of Physics

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

Activity : Summer Training Programme

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

Beneficiaries : 25



MAGERCOIL - 4

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: 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	В



Head of the Department

Dr. S. MARY DELPHINE, M.B.C.Ph.D.

HEAD ASSOCIATE PROFESSOR IN PHYSICA

HEAD ASSOCIATE PROFESSOR I

Director of ABC

Controller of Examination

ONTRO! FOR EXAMPLATE

Department of Botany

MOU : Centre for Marine Science and Technology

Activities : Faculty Exchange Programme

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





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, Nageroof



Department of Zoology

MOU : Centre for Marine Science and Technology

: International Conference on Recent Advancements of Biomolecule Inventions Activities

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

Beneficiaries : 198



About the College

Holy Cross College, Nagereoil the first Women's College in Kanyskumari District administered by the Congregation of the Sisters of the Cross of Chavanod was exabilished in 1965 and raised to an automomous 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 offen 15 UG, 12 PG, 4 M/Pill. and 9 PB. D. programs. Holy Cross College is known for its unique discipline and scademic excellence.

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 1979, Research Department in 1979, A to U.G. sponsord "U.G. Wocational Sericulture" and innovative "M. Sc. Biomedical Sciences" Program was catabilisted in 1999 and 2006 respectively. The department has a well—deupled DST—PIST sponsored laboratory. It has taken a lead role in educating young girls from the economically and socially distindurating sectors and empowering them to become academicians, scientists and entrepreneurs. The threat areas of research are Immunology, Crustacoum Physiology, Environmental Biology and Molecular Taxonomy. The main objective of the department is to promote scademic skills, research aptitude and societal commitment.

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 repietes and social support to the under privilegac community to protect then and empower them to be self-sufficient in the future. Our FIRST Trust NGO also provides scientific research, belath, education, rural employment agreement on evironmental connervation etc. to the community who reside in rural area. In environmental ennervation etc. to the community who reside in rural area. In edition, we apport researchers from the under represented area, weaker and marginalized segment of the society to bring out their innovates. We have been carrying out various programs designed meticalously after careful analysis of various socia-economic problems for sustainable development of the community.

This conference aims to bring together Academicians, Scientistis, Reevarch 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 exabilish a research relation for the authors and biseness 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 reflement 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.

Agriculture, Fisheries and Food Behavioural sciences Eatomology

Parasitology

Plant Sciences

Toxicology

Virology Nanotechnology Pharmacology

Mycology Genetics Microbiology

Zoology

Extended abstracts with introduction of the topic, area of the study, methods foll 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 MS-Word, Times New Roman with font size 12 to be sent to the Organizing Secretaries through ci-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 1 presentation shall be prepared as the poster mode of presentation (Size of Poster: 3 Fect (Height) X 2 Feet (Width). Kindly avoid flex posters

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 RABI'19. Two papers will be selected for the best onal / poster award.

IMPORTANT DATES

Due date for the submission of Abstract and full length paper

Delegates are requested to send their registration fee through mot transfer by IMPS' NIZI'R RTGS to the below accusent Account to Name: Foundation for Innovative Mesoret in Science and Techn Bank Name Indian Overvasa Bank Accusat Ne: 134402000000979 IFSC: NDIA00001344

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

yourself with cash and collect your conference kit, and the badge to participate in the





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

: BITS Informaton Technology **MOU**

: Tally ERP Training Activity

Date : 18-06-2019

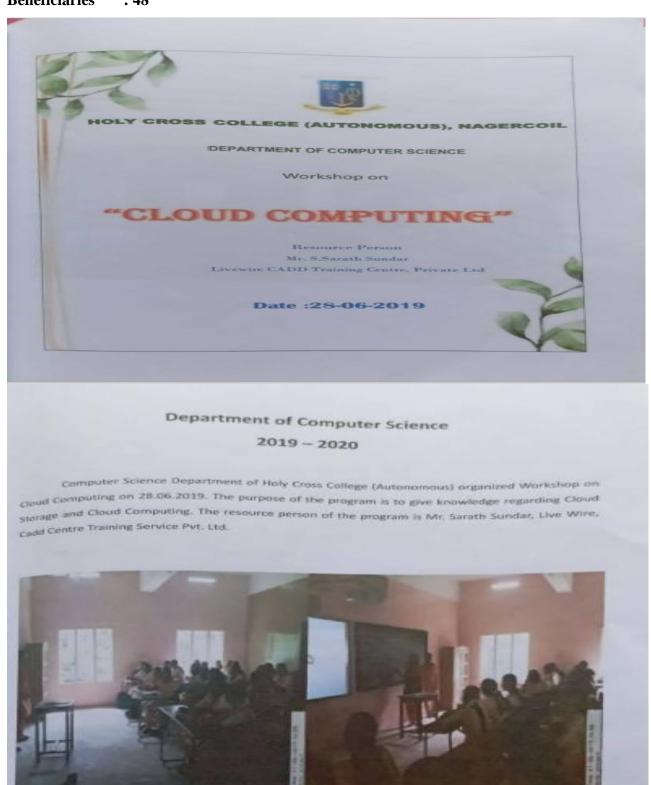


Department of Computer Science

MOU : Livewire CADD Training Centre

Activity : Workshop on Cloud Computing

Date : 28-06-2019



Department of History

MOU : Chembavelam Research Base Trust, Nagercoil

Activities : Value Added Course

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



Department of History

MOU : Mizpa Holidayz

Activities : Value Added Course

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





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 Rosearch Association bor Economics and Finance (SRAEF), Channel conducted a test on 10th February, 2020. The title of the test was, 'know Your Economy' totally 12 students participated. After the test, the answer scripts were evaluated. Sr. Clara of I MA Economics Scored the first mark, Sr. Barkmans Pren 06 5 MA Economics Swored the Second and Elizabeth lipna of II B. A Economical Scored the third mark the winners who secured the highest marks were honoured with prizes.

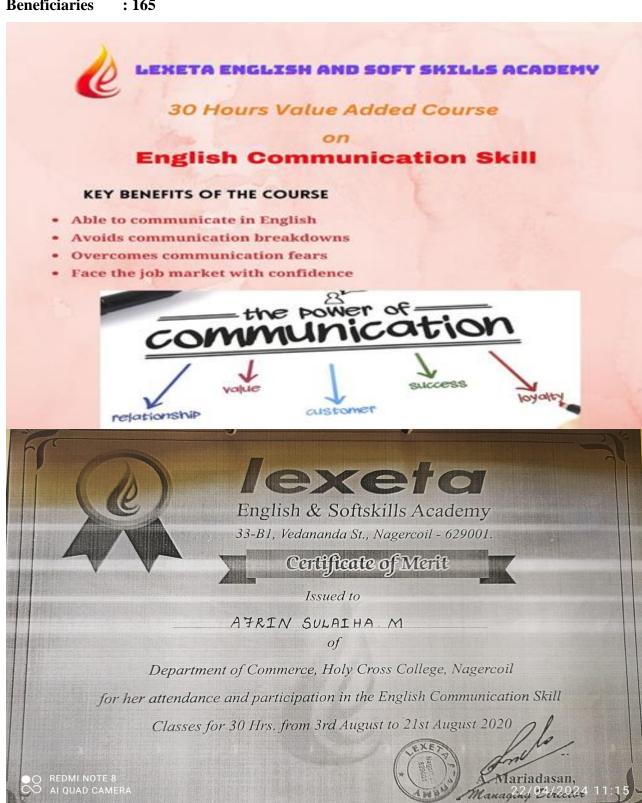


Department of Commerce (Aided)

MOU : LEXETA English and Soft Skill Academy

: Value Added Course on Business Communication Training **Activity**

Date $: 01 \hbox{-} 02 \hbox{-} 2020, \, 08 \hbox{-} 02 \hbox{-} 2020, \, 14 \hbox{-} 02 \hbox{-} 2020, \, 15 \hbox{-} 02 \hbox{-} 2020, \, 29 \hbox{-} 02 \hbox{-} 2020, \, 14 \hbox{-} 03 \hbox{-} 2020$



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



BITS Course Certificate . This codificate of TALLY ERP 9 holding Siegister number 2001P176 BABY ABIRAMI N JANUARY 2020 TO MARCH 2020 A+ (98%) 21th September 2020 Nagercoil Date Centre Assessed by OF SUCCESSA **BITS INFORMATION TECHNOLOGY** Recognised by the Government Xavier Building, P.W.D. Road, Nagercoil, India - 629001. A+ 90-100 A 80-89 B+ 70-79 B 60-69 C 50-59

BITS

Course Certificate

This certificate of
TALLY ERP 9

holding Register number
1901P101
awarded to
SWETHA M
during
APRIL 2019 TO JUNE 2019
obtained Grade

A (80)%

 066843
 18th July 2019
 Nagercoil

 No
 Date
 Centre

Issuing Authority

Assessed by

BITS INFORMATION TECHNOLOGY

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A+ 90-100 A 80-89 B+ 70-79 B 60-69 C 50-59



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.

