



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

5.1.3 Capacity development and skills enhancement activities are organised for improving students' capability

Semester V

Major Core IX- Computer Oriented Numerical Methods

Course Code: MC2053

No. of hours per week	Credits	Total No. of hours	Marks
6	4	90	100

Objectives:

1. To provide suitable and effective numerical methods, for computing approximate numerical values of certain raw data.
2. To lay foundation of programming techniques to solve mathematical problems.

Course Outcomes

CO	Upon completion of this course the students will be able to:	PSO addressed	CL
CO - 1	understand the elementary programming language and its structure	PSO - 4	U
CO - 2	develop computer programmes for the solution of various numerical problems	PSO - 5	C
CO - 3	apply numerical methods to obtain approximate solutions to mathematical problems	PSO - 3	Ap
CO - 4	employ different methods of constructing a polynomial using various methods	PSO - 2	A
CO - 5	compare the rate of convergence of different numerical formula	PSO - 4	An
CO - 6	distinguish the advantages and disadvantages of various numerical methods	PSO - 4	An

Unit I

Basis structure of C programs – C Tokens – Keywords and Identifiers - Constants – Variables – Data Types – Operations and Expressions – Arithmetic Operators – Relational Operators – Logical Operators – Assignment Operators – Increment and Decrement Operators – Conditional Operators - Bitwise Operators - Special Operators – Managing Input and Output Operations – Formatted Input [Excluding Inputting Integer Numbers] - Formatted Output [Excluding Output of Integer Numbers] .

Unit II

Decision making and Branching – Decision making with IF statement – Simple IF statement – The IF.... Else statements – Nesting of IF... Else statements- The GOTO statement - Decision making and Looping – The WHILE Statement – The DO Statement – The FOR Statement.

Unit III

Solutions of algebraic and transcendental equations. Iteration method - Newton Raphson method – *programs in C for Newton Raphson method*- Interpolation - Newton's Interpolation formulae –*programs in C for Newton's Forward Interpolation and Backward Interpolation*- Lagrange's Interpolation formula.

Unit IV

Numerical differentiation - derivatives using Newton's forward difference formula - Newton's backward difference formula - Numerical integration - Newton cote's - quadrature formula - Trapezoidal rule - *programs in C for Trapezoidal rule*.

Unit V

Simpson's $(1/3)^{rd}$ rule - *programs in C for Simpson's one - third rule*- Simpson's $(3/8)^{th}$ rule- Numerical solution of differential equation - Taylor's series method - Picard's method.



Text Book:

1. Programming in ANSI C, E. Balagurusamy, McGraw Hill Education (India) private Limited.
(Eighth Edition)

Chapter: 2; page: 28

Chapter: 3; pages: 41-42, 45-47

Chapter: 4; pages: 68-77

Chapter: 5; pages: 105, 113-114

Chapter: 6; pages: 131-133,135-140, 153-154,

Chapter: 7; pages: 173-179

In all the chapters worked –out problems are excluded.

2. Arumugam, S. Thangapandi Issac, A., &Somasundaram, A. (2002). Numerical Methods. Scitech Publications Pvt. Ltd.

Chapter 3: Sections 3.0, 3.2 & 3.5;

Chapter 7: Sections 7.1, 7.3;

Chapter 8: Sections 8.1, 8.2 & 8.5 (except Weddle’s rule, Boole’s rule & Romberg’s method) & Chapter 10: Sections 10.1 &10.2.

Chapter 12: Sections 12.6, 12.13, 12.14, 12.19, 12.20

Practical: Topics in Italics from Unit III to Unit V.

Reference Books:

1. Sastry, S.S. (2003). Introduction methods of numerical analysis. (3rd Edition). Prentice Hall of India.

2. Scar Borough, J.N. (1966). Numerical mathematical analysis. (6th Edition). Oxford and IBH Publishing Co.

3. Gupta, P. P., G.S.Malik., & Sanjay Gupta. (1992). Calculus of finite differences and numerical analysis. (16th Edition). KRISHNA Prakashan Mandir.

4. Devi Prasad. (2010). An Introduction to Numerical Anaysis. Narosa Publishing House.

5. Bhupendra Singh. (2012). Numerical Analysis. (2nd Edition). Pragati Prakashan Educational Publishers.



TRENDS IN TECHNOLOGY WITH PYTHON



HOLY CROSS COLLEGE (AUTONOMOUS)

Affiliated to Manonmaniam Sundaranar University
Accredited with A+ Grade (CGPA 3.35) by NAAC IV cycle
Nagercoil -629004, Tamil Nadu, India



Department of Mathematics (S.F)

Trends in Technology with "Python"

Resource Person

N.R.Raghav

Digital Marketing Manager
Vollmond Academy, Villukury-629180
www.vollmondacademy.com

Date : 26-09-2022

Time : 11.00 am to 12.00 noon

Venue : Multi Purpose Hall

Head of the Department

Dr.S.Kavitha

Organizing Secretaries

Mrs.J.Anne Mary Leema
Ms.M.Monisha

President: T.Theres Shiny & Secretary :D.S.Dhamini

Date : 26-09-2022

Theme : Encompasses advancements in artificial intelligence

Organized by : Department of Mathematics (S.F)

Venue : Multipurpose Hall

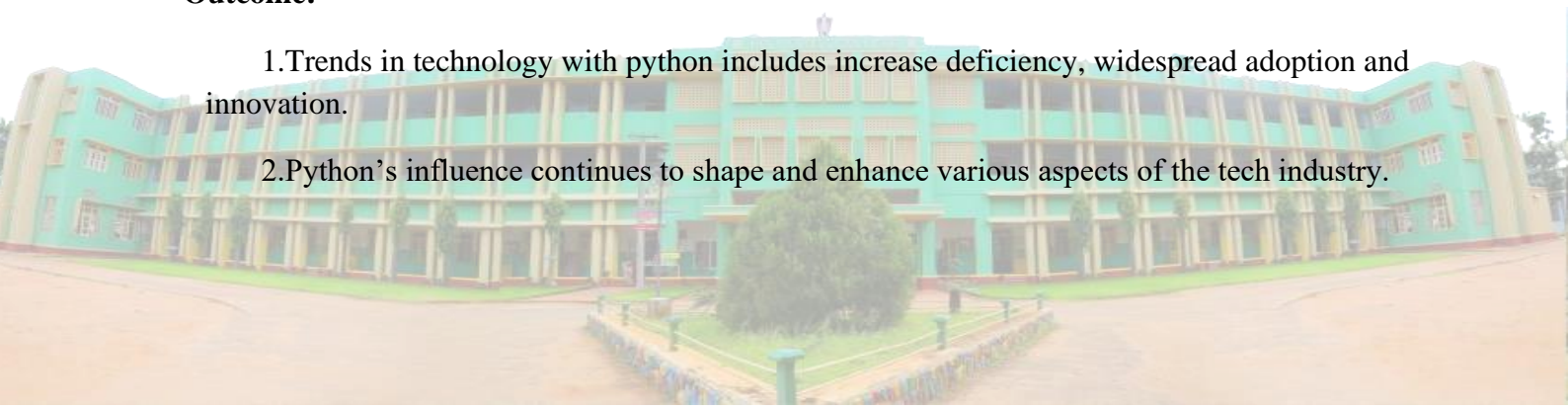
A talk on 'Trends in Technology with Python' was delivered by the resource person N.R. Raghav, Digital Marketing Manager, Vollmond Academy, Villukuri on 26-09-2022. He discussed about the benefits of learning Python and described about the job opportunities of learning Python.

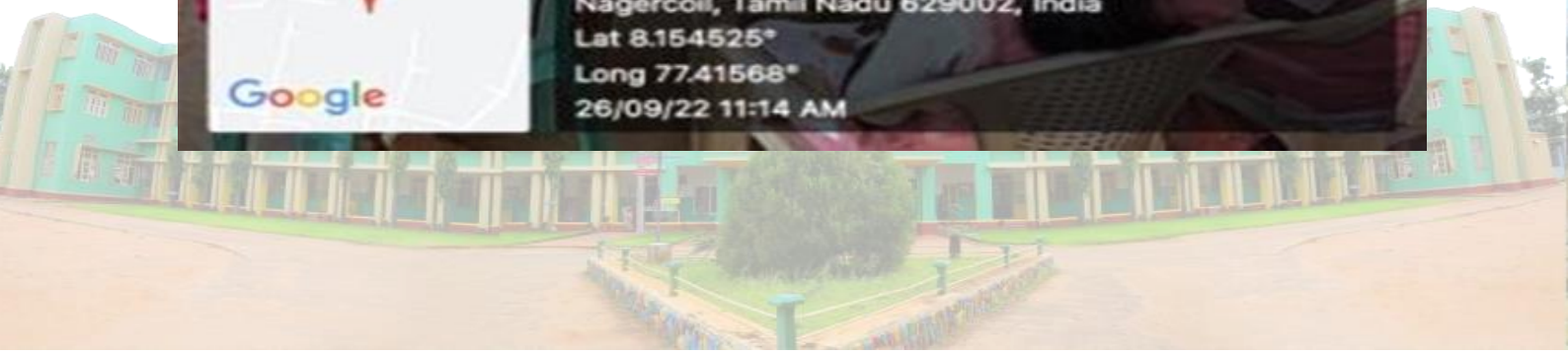
Number of beneficiaries -71

Outcome:

1.Trends in technology with python includes increase deficiency, widespread adoption and innovation.

2.Python's influence continues to shape and enhance various aspects of the tech industry.





CYBER CRIME AWARENESS PROGRAMME



HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL-4
Affiliated to Manonmaniam Sundaranar University, Tirunelveli
Accredited with A+ grade by NAAC- IV Cycle(CGPA 3.35)



DEPARTMENT OF PHYSICS
Organises an Awareness Programme on
“CYBER CRIME”

Resource Person
T.M.Ajimal Jenif
SI of Police
Cyber Crime Police Station
Nagercoil

Date : 10.03.2023
Time : 11am
Venue : Seminar Hall

Secretary : Dr. Sr. Mary Hilda
Principal : Dr. Sr. S. Sahayaselvi
Head of the Department : Dr. C. Nirmala Louis

Organising Secretaries
Dr. A. Lesly Fathima
Dr. R. Krishna Priya

- Date : 10-03-2023
- Organised by : Department of Physics
- Theme/ Objective : To bring awareness regarding cybercrime among students
- Resource Persons : Mr. T. M. Ajmal Jenif, S.I. of Police, Cyber Crime Police station, Nagercoil.
- Outcome of the Activity : Students learned the value of not engaging in conversation with strangers.
- No. of Beneficiaries : 163
- Venue : Seminar Hall



Objective :

To raise awareness about the various types of cybercrimes prevalent today to educate students about the importance of cyber security measures in protecting personal and organizational data to provide practical tips and guidelines for skating safe online.

The Department of Physics organises an awareness programme on the topic “Awareness on Cybercrime” on 10.03.2023 at seminar Hall, Holy Cross College (Autonomous), Nagercoil. Cyber Crime has become an increasingly pervasive threat in our digital age, with individuals, businesses, and governments falling prey to various forms of cyber-attacks. In response to this growing concern, a Cyber Crime Awareness Programme was conducted to educate our students about the risks associated with cyber activities and how to safeguard against them. The programme starts with the prayer song by Ms. Loreena Solomon and her team from III B. Sc Physics. Ms. Abarna Devi, III B. Sc Physics welcomed the gathering. Mr. T. M. Ajmal Jenif, S.I. of Police, Cyber Crime Police Station was the resource person of the day. He talk about the importance of using strong unique passwords and enabling two-factor authentication and vigilance in recognizing suspicious emails links and attachments. He also insists our students to utilize the regular software updates and antivirus protection. Especially the girls should have the safe browsing practices and cautious use of social media platforms. At the end of the programme, Ms. Divin Sona from II M. Sc Physics proposed the vote of thanks.



DESIGN THINKING AND INNOVATIONS

Holy Cross College (Autonomous)
Accredited with A+ Grade (CGPA-3.35) by NAAC (V Cycle)
Affiliated to Manonmaniam Sundaranar University
Nagercoil-4, Tamilnadu, India

Department of Botany

In Collaboration with IIC and Holy Cross Innovation and Incubation Centre
Organizes A Session on Design Thinking and Innovation

Resource Person
Dr. Sheeba Daniel
Assistant Professor of Chemistry
Innovation Ambassador
IIC Convenor
Holy Cross College, Nagercoil.

Date: 12/09/2022
Place : St. Joseph's Hall
Time: 9.00- 10. 30pm

Programme Coordinators
Convenor: **Dr. A. Anami Augustus Arul,**
HOD of Botany
Organizing Secretary **Sr. Leema Rose** Vice
Principal,
Asst. Professor of Botany

Patron: Dr. Sr. Mary Hilda, Secretary
President: Dr. Sr. Sahaya Selvi, Principal

Date :12-09-2022

Organised by : Sr. Leema Rose (Department of Botany and Research Centre)

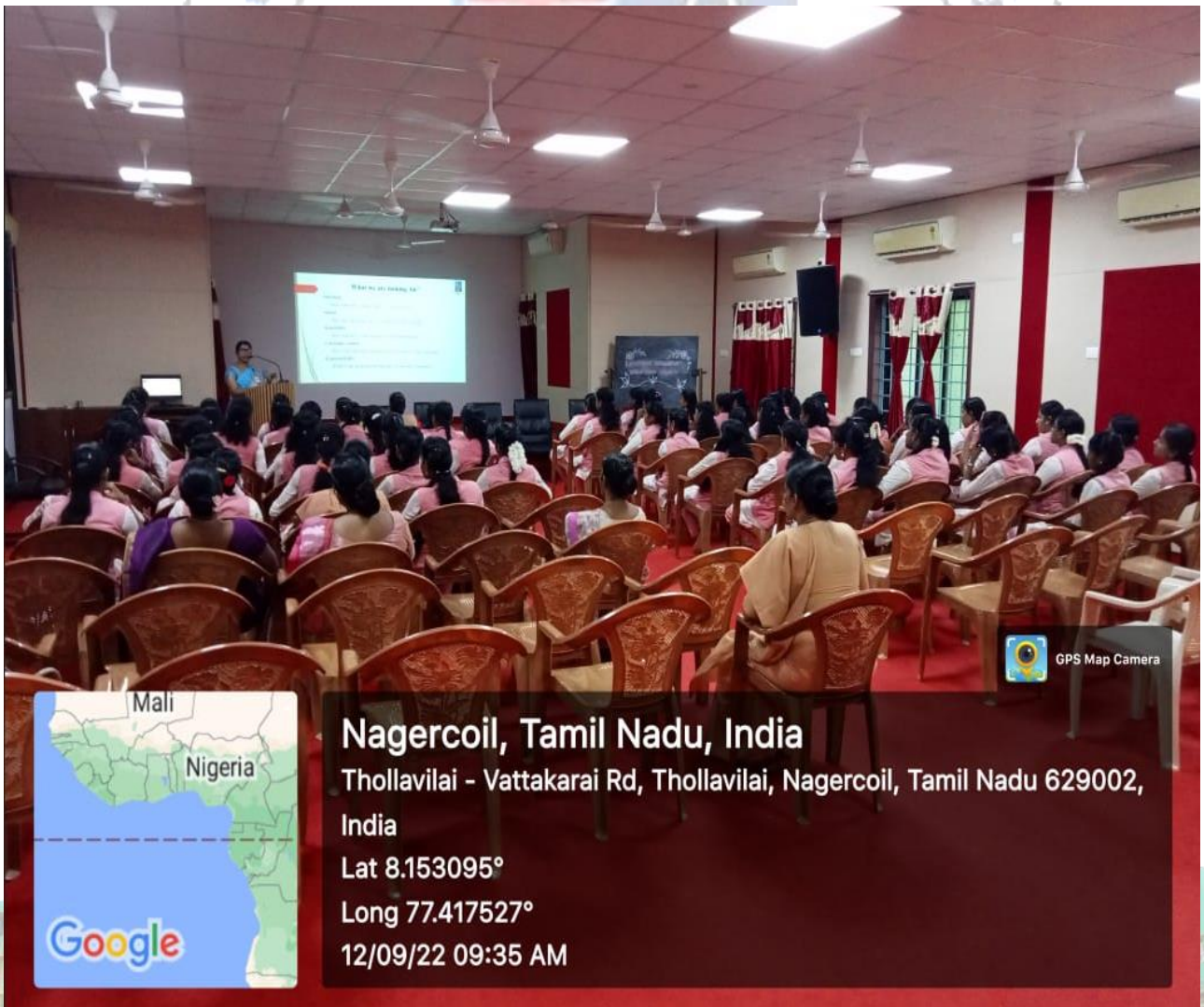
Theme /Objective : To give depth knowledge on Floral Design

No. of Beneficiaries : 85

Department of Botany conducted seminar in collaboration with IIC, Holy Cross College (Autonomous), Nagercoil on Design Thinking and Innovation. Dr. Sheeba Daniel, Assistant Professor of Chemistry at Holy Cross College (Autonomous), Nagercoil was the resource person for this session. She is

the IIC convenor of the college and also, she has completed advanced level Innovation Ambassador Training offered by Ministry of Education.

This meeting was conducted at St. Joseph's Hall. The program started at 9am, with the welcome address by Sr. Leema Rose was the Organizing secretary and vice principal of the college. The resource person clearly explained about the Design Thinking and Innovation. She also elaborated about how a simple problem can lead to thinking for a solution and that leads to innovative solution. The innovation solution can be patent or, can become a product. The students' doubts were clarified by the chief guest. She also encouraged and motivated the students to take interest in innovation and entrepreneurship. The number of beneficiaries for this programme was 85. The program came to an end by the vote of thanks Ms. I.S. Angelin Dani of III B.Sc., Botany.



TRAINING PROGRAM ON CANVA DESIGN



DEPARTMENT OF ZOOLOGY

HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL-4
Affiliated to Manonmaniam Sundaranar University, Tirunelveli
Accredited with A+ by NAAC-IV cycle (CGPA 3.35)

Organises a training programme on

Canva Designing

Resource Person

DR.X.VENCI CANDIDA
Assistant Professor, Department of Zoology,
Holy Cross College

TIME: 12.P.M **VENUE: PG LAB**

DATE:23.03.2023



ENTREPRENEURSHIP IN MOBILE APPLICATION DEVELOPMENT



HOLY CROSS COLLEGE(AUTONOMOUS)

Affiliated to Manonmaniam Sundaranar University
Accredited with 'A+' Grade (CGPA-3.35) by NACC (IV Cycle)
Nagercoil - 629004, Tamil Nadu

Department of Computer Science
In Collaboration with Institution Innovation Council
Invites you to the Workshop on

**"ENTREPRENEURSHIP IN MOBILE
APPLICATION DEVELOPMENT"**



RESOURCE PERSON

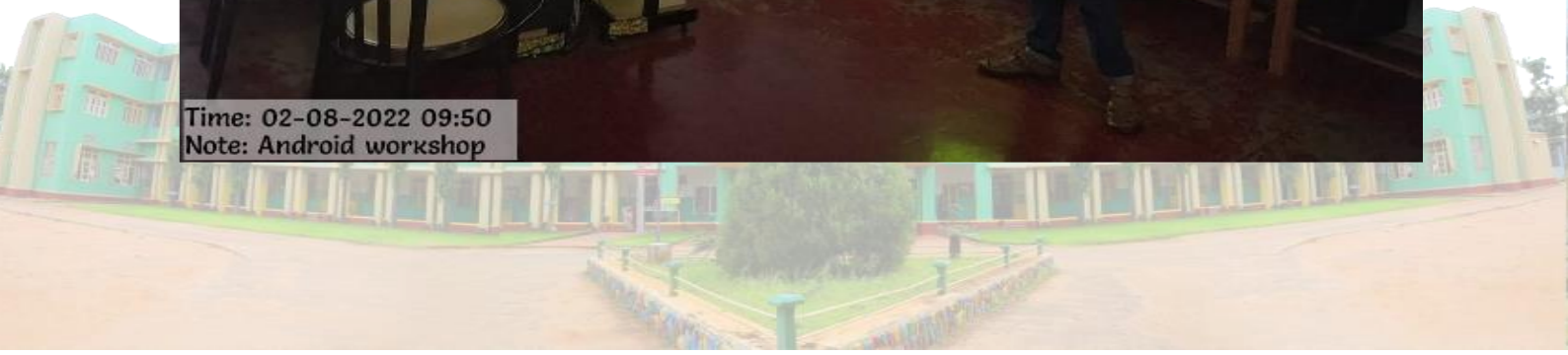
Mr. Ganesh M.C.A.,
Project Manager,
Hitech Solutions

Date: 02-08-2022, Time: 9.15 am to 3.15 pm

Patron: Dr.Sr. Mary Hilda, Secretary
Chairperson: Dr.Sr. Sahaya Selvi, Principal
Convener: Mrs. J. Anto Hepzie Bai, HOD

.....
Organizing Secretary
M. Nithila, V.R.Bithiah Blessie
Assistant Professor of Computer Science

Venue: Computer Lab



MOBILE APPLICATION DEVELOPMENT

Workshop on Mobile Application Development

A Workshop on Mobile Application Development was organized on 2 August 2022. The Resource Person was Mr. Ganesh, Project Manager Hi-Tech Solutions Nagercoil. The program started at 10:00 AM. The Resource Person gave a talk about the Android application development. The workshop was very useful to the students. The main motive of the program is to develop simple Android Application. The program ended by 3:15 PM.

Rafique
President

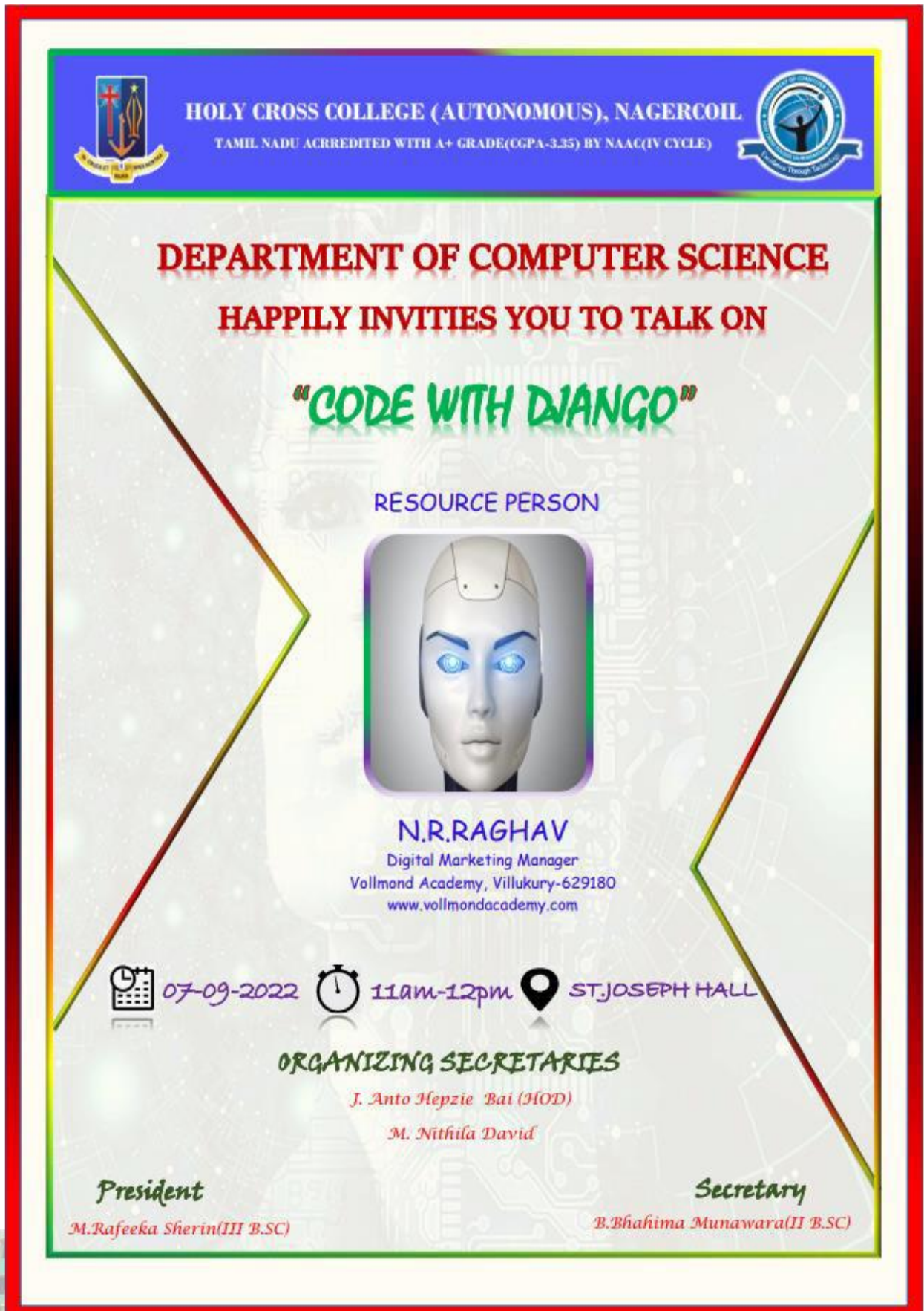
Bahima Muner
Secretary



[Signature]

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL




CODE WITH DJANGO






 **HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL**
TAMIL NADU ACRREDITED WITH A+ GRADE(CGPA-3.35) BY NAAC(IV CYCLE) 

DEPARTMENT OF COMPUTER SCIENCE
HAPPILY INVITIES YOU TO TALK ON
"CODE WITH DJANGO"

RESOURCE PERSON



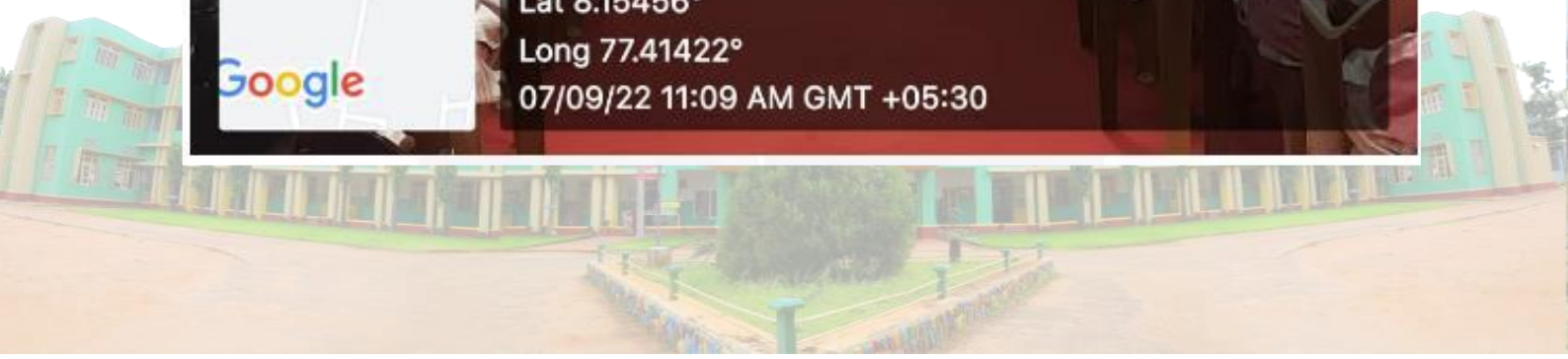
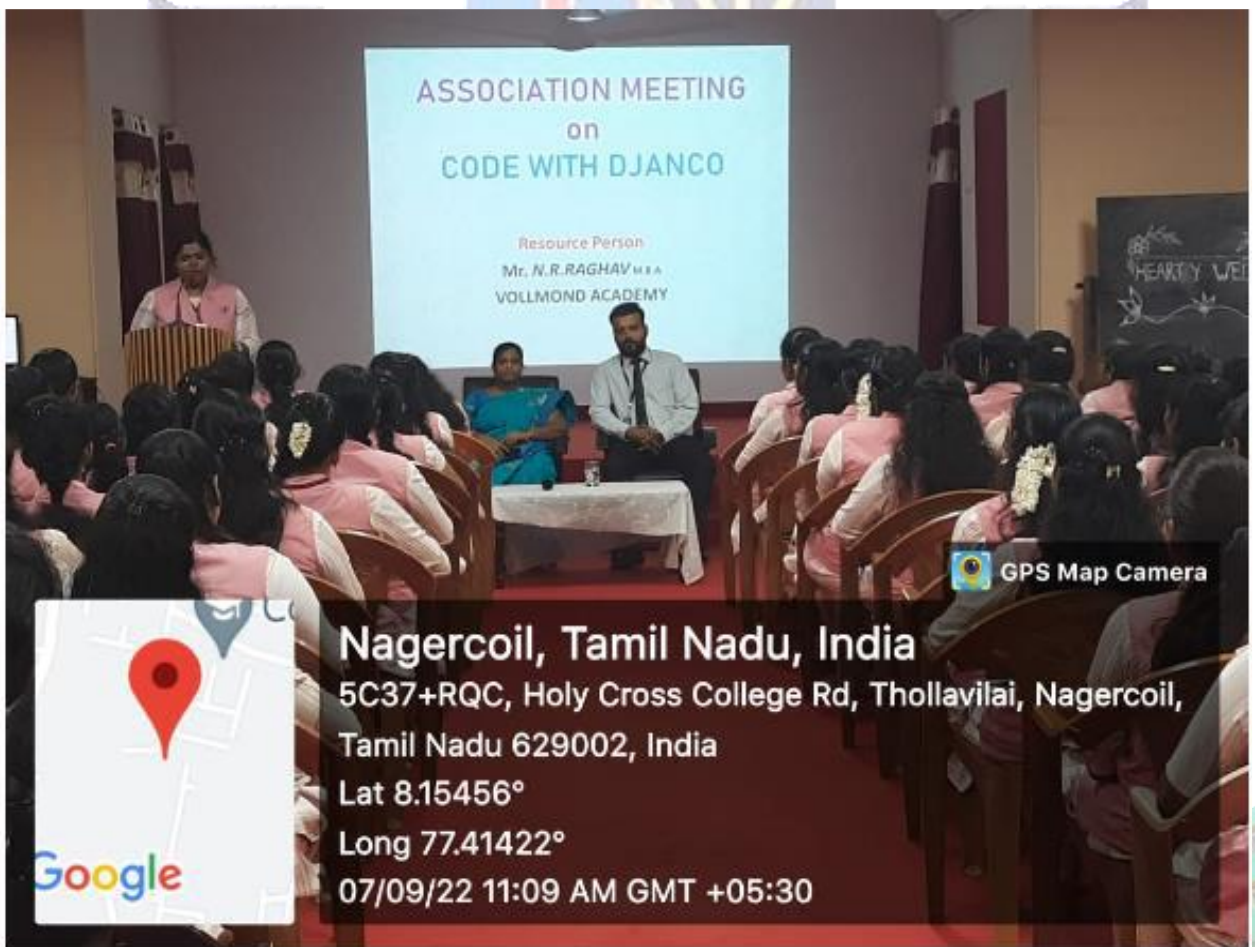
N.R.RAGHAV
Digital Marketing Manager
Vollmond Academy, Villukury-629180
www.vollmondacademy.com

 07-09-2022  11AM-12PM  ST.JOSEPH HALL

ORGANIZING SECRETARIES
J. Anto Hepzie Bai (HOD)
M. Nithila David

President
M.Rafeeka Sherin(III B.SC)

Secretary
B.Bhahima Munawara(II B.SC)



Code With Django

The department organized an Association meeting on 7 September 2022 at 11:00 Am in St. Joseph Hall. The Resource Person was Mr. N.R. Raghav Narayanan M.B.A, Digital Marketing Manager from Vollmond Academy. The meeting started with Prayer song. Ms. Cresic Fernina. D of III B.sc. welcomed the gathering. The session was about Code with Django. The main purpose of the program is to know the demand for Django Developers and Python developers. The session was very useful to the students. The session ended by 12:45 Pm.





Rabeeka.
President.

Rehna Muner
Secretary

[Signature]

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL

WAYS TO ADVANCE YOUR TECHNOLOGY CAREER

HOLY CROSS COLLEGE(AUTONOMOUS)
NAGERCOIL- 629 004
Affiliated to M.S University, Tirunelveli
Nationally Re-accredited with A Grade (CGPA 3.35) by NAAC

DEPARTMENT OF COMPUTER SCIENCE
In Collaboration with Institution Innovation Council
Invites you to the Workshop on

HAPPILY INVITES YOU TO THE TALK ON
“WAYS TO ADVANCE YOUR TECHNOLOGY CAREER”
RESOURCE PERSONS

Ms. Shylla
(HR, Foisys)

Ms. Jenisha
(Software Training Incharge, Foisys)

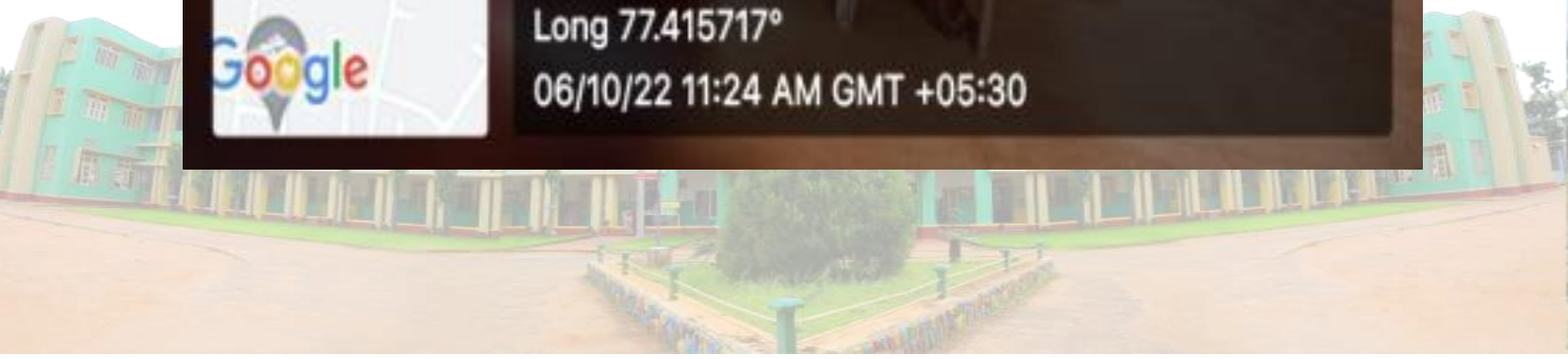
Mr. Jeyakumar
(Project Manager, Foisys)

Date:06.10.2022 **Time:9.30 am To 12.30 pm** **Venue : St. Joseph Hall**

ORGANIZING SECRETARIES
J. Anto Hepzie Bai (HOD)

PRESIDENT **F. Fanax Femy** **SECRETARY**
M. Rafeeka Sherin(III B.Sc) **B. Bha'hima Munawara(II B.Sc)**

Everyday Is A Chance To Learn



Talk on Ways to Advance Your Technology Career

The association meeting was organized by the department of Computer Science on 6.10.2022. The resource person was Mr. Jayakumar, Project Manager Foisys. The program started at 10:00 AM with the prayer song. Seethalaxmi of II. B.Sc. Computer Science delivered the welcome address. Mr. Jayakumar gave a talk about how to improve higher individual and team performance. The meeting ended with the Vote of Thanks by Bencyca of III. Bsc. Computer Science.

Rafeka,
President.

Palma Muneer
Secretary.



HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL



ROBOTICS WORKSHOP

HOLY CROSS COLLEGE(AUTONOMOUS), NAGERCOIL-629004



Affiliated to Manonmaniam Sundaranar University
Accredited with A+ Grade (CGPA 3.35) by NACC (IV Cycle)



DEPARTMENT OF COMPUTER SCIENCE

ORGANIZES A

WORKSHOP ON ROBOTICS

RESOURCE PERSONS

MR. CHRIST JOSE

Founder & Managing Director
R-Shell Info Services
Nagercoil

MR. SIVA BALA VIGNESH

Mobile Application Developer

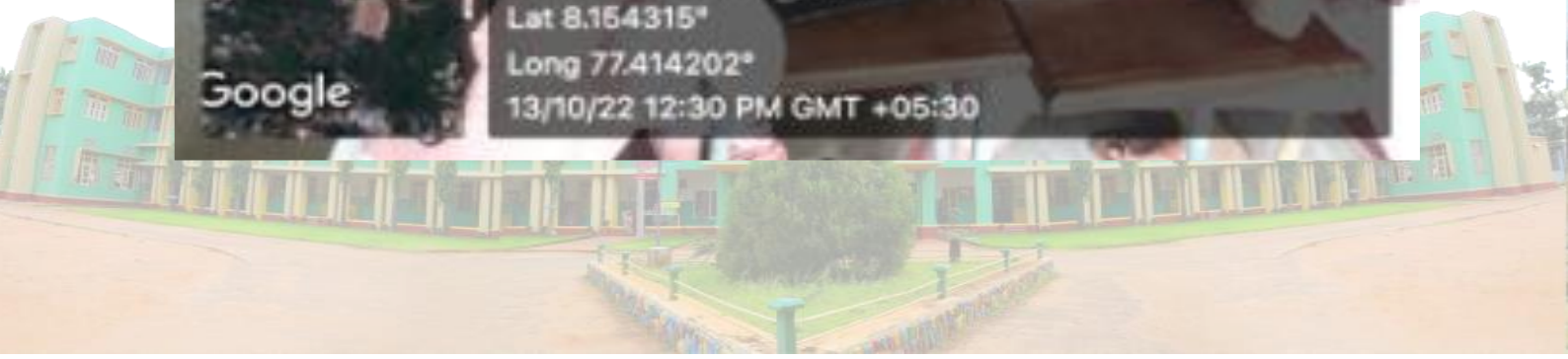
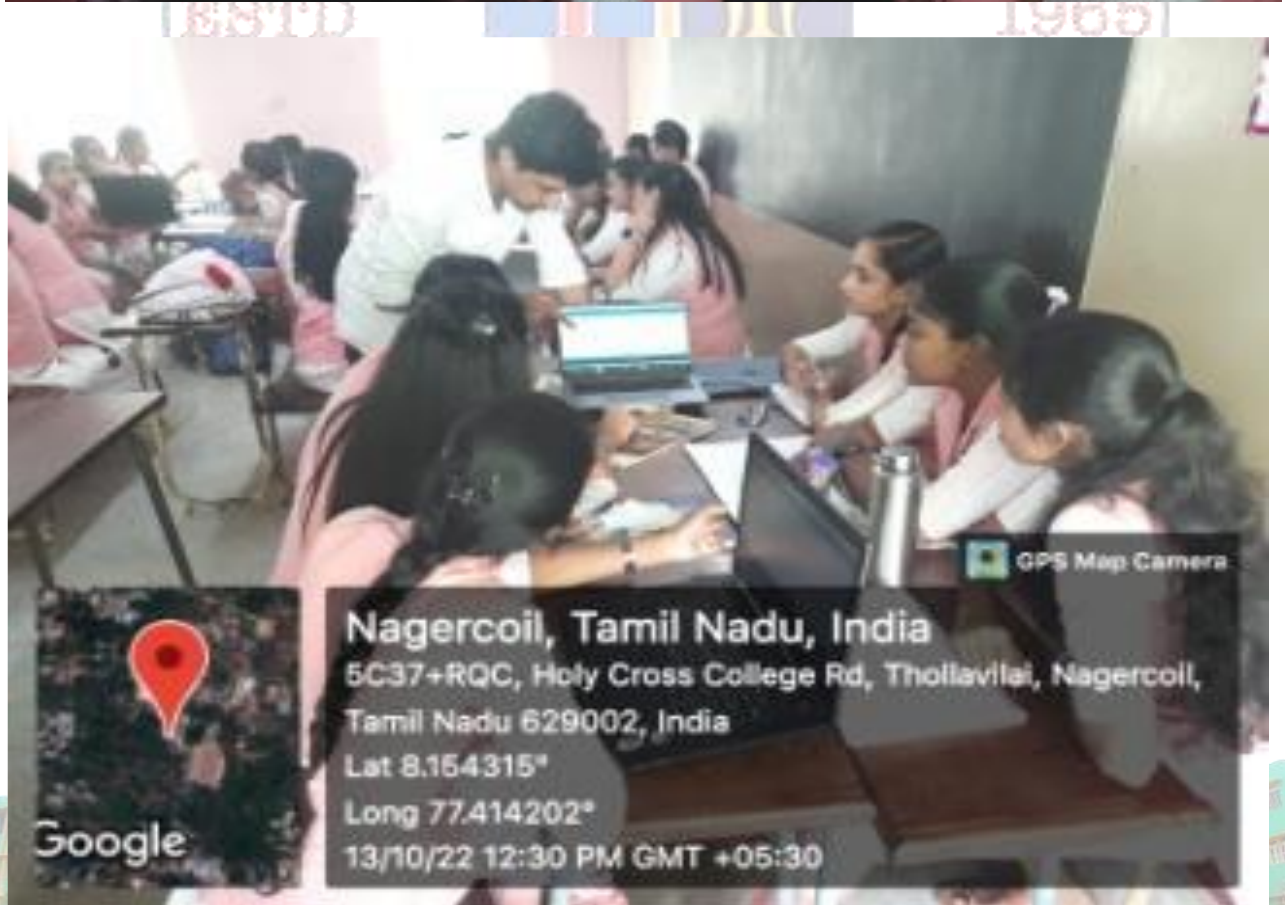
12th, 13th, 14th October

Room No: 93,102,103

09.15 A.M-3.15 P.M

Organizing Secretary

J. Anto Hepzie Bai (HOD)



2022 - 2023

classmate
Date _____
Page _____

Workshop on Robotics

The workshop was organized by the department of computer science on 12, 13, 14 of October 2022. The resource person accompanied with us was Mr. Christ Jose and Mr. Siva Bala Vignesh, R-shell Info Services, Nagercoil. The program started at 10:00 AM. All the students of computer science department took a part in it. The main purpose of the programme was to help the students to develop critical thinking and problem solving skills. The practical session was also conducted and the students learnt about the moving of a car using the robotics coding.



Rafeeta
President

[Signature]
HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE
HOLY CROSS COLLEGE

Bahina N
Secretary

IT WORKSHOP IN .NET



HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL - 629 004
Accredited with A⁺ Grade (CGPA 3.35 – 4th Cycle) by NAAC, Tamil Nadu

DEPARTMENT OF COMPUTER SCIENCE
In Collaboration with Inbox Info Solutions
INVITES YOU TO JOIN

“ IT WORKSHOP IN .NET ”

Time : 9.30 am to 3:00 pm | Date : 30.01.2023 & 31.01.2023

RESOURCE PERSONS

Reshma Sundar Java Developer Speridian Technologies Technopark, Trivandrum	Palani Muthu Kumar .NET Developer Inbox IFS Private Limited Nagercoil
--	---

Patron : Dr. Sr. Mary Hilda, Secretary
Chair Person : Dr. Sr. S. Sahaya Selvi, Principal
**Organizing Secretaries : J. Anto Hepzie Bai(HOD),
V.R.Bithiah Blessie**



classmate

Date _____

Page _____

IT Workshop in Dot Net

The IT Workshop on Dot Net was organized by the Department of Computer Science from 30.1.2023 to 31.1.2023. The resource people were Ms. Reshma Sundar, Java developer and Mr. Palani Muthu Kumar, Dot Net Developer, Inbox Solutions, Nagercoil. The program started at 10.00 AM. All the students of III UG computer science took part in the workshop. The main motive of the program is to make the students learn about the latest development and skills needed for the Dot Net Framework. The practical session was conducted and the students enthusiastically practised to code in Dot Net Framework.

Rajeev,
President

Balaram,
Secretary



HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL



Department Of Computer Science
IT Workshop in .NET
31.01.2023 10:21
8.15519, 77.41449
5C47+2R6, Holy Cross Nagar, Nagercoil, Tamil Nadu 629004



Department Of Computer Science
IT Workshop in .NET
31.01.2023 10:22
8.15505, 77.41437
5C47+2R6, Holy Cross Nagar, Nagercoil, Tamil Nadu 629004



INTERNATIONAL SEMINAR ON QUANTUM CAUSAL INFERENCE INITIATIVE

Technical Session – I (10.30-11.30)

Topic : Quantum Computing

Resource Person
Er.D.Godlin Oliver
Technical Consultant, Union Pacific Railroad
Denver, Colorado, USA

Technical Session – II (11.35-12.35)

Topic : Causal Inference and Learning

Resource Person
Er. A Jenice Prabhu.
Software Trainer,
ALC Academy

Lunch: 12.45 – 1.30

Quiz Competition 1.30 – 3.00

Valedictory Function 3.00 p.m.

Prize Distribution
Dr. Sr. Leema Rose
Vice Principal,
Holy Cross College, Nagercoil-4

Registration Form

Name: _____

Designation: _____

Department : _____

Institution: _____

Mobile: _____

E.mail: _____


Signature of the H.O.D. : _____

Signature of the Principal. : _____

(Photocopies are allowed)


Contact Details

Mrs.Bithiah Blessie V R
Mob: 9487476840 / 6380537523
bithiahblessie@gmail.com



HOLY CROSS COLLEGE
(Autonomous)
Nagercoil – 629004, Tamil Nadu
Accredited with "A+" Grade (CGPA 3.35) by NAAC

**International Seminar
On
Quantum Causal
Inference Initiative**



March 27th, 2023

Organized By
Department of Computer Science

National Anthem

**Registration
Fee: 200/-**

Organizing Committee
Mrs.J. Anto Hepzie Bai (HOD)
Mrs.M.Nithila
Dr.F. Fanax Femy
Mrs. S. Jones Kala

"Education is most powerful weapon which you can use to change the world" - Nelson Mandela

The College

Holy Cross College (Autonomous), Nagercoil is the first women's college in Kanyakumari District established on 2nd August 1965. The college was conferred Autonomous status in 2007 and had the 4th cycle of accreditation in August 2019 by NAAC and rewarded "A+" grade with CGPA 3.35 scale.



The Department

The department of Computer Science was established in the year 2008. The department is continuously organizing and participating in various workshops / seminars to enlighten the students and faculty members in the field of computer technology. The main objective of our department is to promote academic skills and social commitments.

Salient features of the Seminar

- ❖ To empower Quantum computers to handle operations at speeds exponentially higher than conventional computers with much less energy consumption.
- ❖ To manipulate large amounts of data and perform complex calculations for conventional computing systems.
- ❖ To make smarter investment decisions, developing drugs and vaccines faster and revolutionizing transportation.
- ❖ Process of drawing a conclusion that a specific treatment was the cause of the effect that was observed.
- ❖ Allow researchers to draw causal conclusions based on data.

Quiz Competition (protocol)

1. Preliminary round will be conducted.
2. Two members per team
3. Only three teams are allowed from each department.
4. Bring bonafide certificate.
5. Candidates must bring their ID.

Programme

Venue: Multipurpose Hall
Registration: 9.00 a.m.
Inauguration : 9.30 a.m.

Welcome Address:

Mrs. J. Anto Hepzie Bai
HOD, Dept. of. Computer Science
Holy Cross College (Autonomous)
Nagercoil.

Inaugural Address:

Dr. Sr. Mary Hilda
Secretary
Holy Cross College (Autonomous)
Nagercoil.

Felicitatation:

Dr.J.Vinoliya Josephine Mary
Controller of Examination
Holy Cross College (Autonomous)
Nagercoil.

Vote of Thanks:

Dr.F.Fanax Femy
Dept. of Computer Science
Holy Cross College (Autonomous)
Nagercoil.

Coffee Break : 10.15 a.m.

International Seminar on Quantum Causal Inference Initiative

International Seminar titled with "Quantum Causal Inference Initiative" was organized by department of Computer Science on 27/03/2022. The objective of this seminar is to give in-depth knowledge on Quantum Computing & Causal Inference and Learning. The Resource persons were Ex. D. Gadlin Oliver, Technical consultant, Union Pacific Railroad, Denver, Colorado, USA, and Ex. A. Jenice Prabhu, Software Trainer, ALC Academy. The head of the department, Ms. Anto Heprie Bai welcome the gathering in the inaugural meeting. Dr. Sr. Mary Hilda, Secretary, Holy Cross College (Autonomous), Nagpurcoil give the inaugural address. Dr. J. Vinoliya Josephin Mary, Controller of Examinations, Holy Cross College, (Autonomous), Nagpurcoil give Felicitation for this meeting. At the end of the inaugural meeting, Dr. F. Farax Fomy Assistant Professor, Department of Computer Science delivered the vote of Thanks. The Resource Persons hand over the session.

The Outcome of the activity is that the students learned about Quantum

Computing, Classical computing & modern computing
AI, Data science, Causal Inference tool
Afternoon session, quiz competition
was conducted by our department, For the
Quiz competition's winners and participants
Dr. Sathya, Vice Principal, Holy Cross College
(Autonomous), Nagercoil delivered the certificates.
Number of Beneficiaries are 239 students
including other colleges. The program
ended at 3.15 p.m.

Sathya
HEAD OF THE DEPARTMENT
(DEPARTMENT OF COMPUTER SCIENCE
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL



Department Of Computer Science
International Seminar
27.03.2023 11:01
8.15451, 77.41558 (±7m)
Altitude: -26m
5C38+R68, Holy Cross College Rd, Thollavilal, Nagercoil, Tamil
Nadu 629002

RECENT TRENDS IN TECHNOLOGY



**Holy Cross College
(Autonomous)**

**Affiliated to Manonmaniam Sundaranar University
Accredited with A+ by NAAC (IV Cycle- CGPA 3.
35)
Nagercoil- 4, Tamil Nadu.**



**Department of English (SF)
English Coffee House Association**

Recent Trends in Technology



**Guest Lecture by
MS. M. Maria Helen Janoba
Assistant Professor of English,
Holy Cross College (Autonomous),
Nagercoil**

**Patron: Dr. Sr. Mary Hilda, Secretary
Chair person: Dr. Sr. S. Sahaya Selvi, Principal
Dr. Sr. Leema Rose, Vice Principal
Dr. P Sathya, Vice Principal**

**Date: 30.03.2023
Time: 10.00 a.m to 11.00 a.m
Venue: I B.A Classroom**



Date : 30-03-2023

Duration : 02.20 pm to 03.15 pm

Theme : Trends in Technology

Organized by : Department of English (SF)

Objective : To know the recent trends in technology

No. of beneficiaries : 33

Venue : Golden Jubilee Hall

Outcome of the activity : In the future, students will harness the latest trends in their respective fields to significantly enhance their professional development.

The Department of English (SF), Holy Cross College (Autonomous), Nagercoil, organized a talk on Recent Trends in Technology on 30.03.2023. The event was headed by Ms. M. Maria Helen Janoba, resource person, Head of the department. Students gain knowledge about ICT pedagogy and creating brochure in Canva. From I B.A English Literature thirty Four students participated in this event.





Holy Cross College(Autonomous)
Recent Trends In Technology
I B.A eng sf poster
30.03.2023 10:09
8.15398, 77.41471 (±14m)
Altitude: -32m
5C37+RQC, Holy Cross College Rd, Thollavilai, Nagercoil



ESTD WEB DESIGNING 1965



Creative Technologies
Web Designing
11.03.2023 13:26
8.15447, 77.41439
5C37+RQC, Holy Cross College Rd, Thollavilai, Nagercoil, Tamil Nadu
629002



AWARENESS PROGRAMME ON ENMIN SAMUGA UDAKANGAL ORU PARVAI

ஹோலிகிறாஸ் கல்லூரி (தன்னாட்சி)
நாகர்கோவில்

AFFILIATED TO MANONMANIAM SUNDARANAR UNIVERSITY
ACCREDITED WITH A+ GRADE (CGPA - 3.35) BY NAAC (IV CYCLE)

தமிழ்த்துறை (சுயநிதி)

நடத்தும்

குயில் தோப்பு மாணவியர்
கவிப்பேரவை

தலைப்பு

"எண்மின் சமூக ஊடகங்கள்
ஒரு பார்வை"

சிறப்பு விருந்தினர்

அருட்சகோதரி ஆன்றின் மேரி
உதவிப்பேராசிரியர்
கணிதத்துறை
ஹோலிகிறாஸ் கல்லூரி
நாகர்கோவில்

இடம்: வளனார் அரங்கம்

நாள்: 03.04.2023

நேரம்: 11.30 மணி

துறைத்தலைவர்

ஒருங்கிணைப்பாளர்

முனைவர் ம. மேபல் எடல் குயின்
உதவிப்பேராசிரியர்
தமிழ்த்துறை (சுயநிதி)
ஹோலிகிறாஸ் கல்லூரி
நாகர்கோவில்

முனைவர் சி.ஆன்சி மோள்
தமிழ்த்துறை (சுயநிதி)
ஹோலிகிறாஸ் கல்லூரி
நாகர்கோவில்



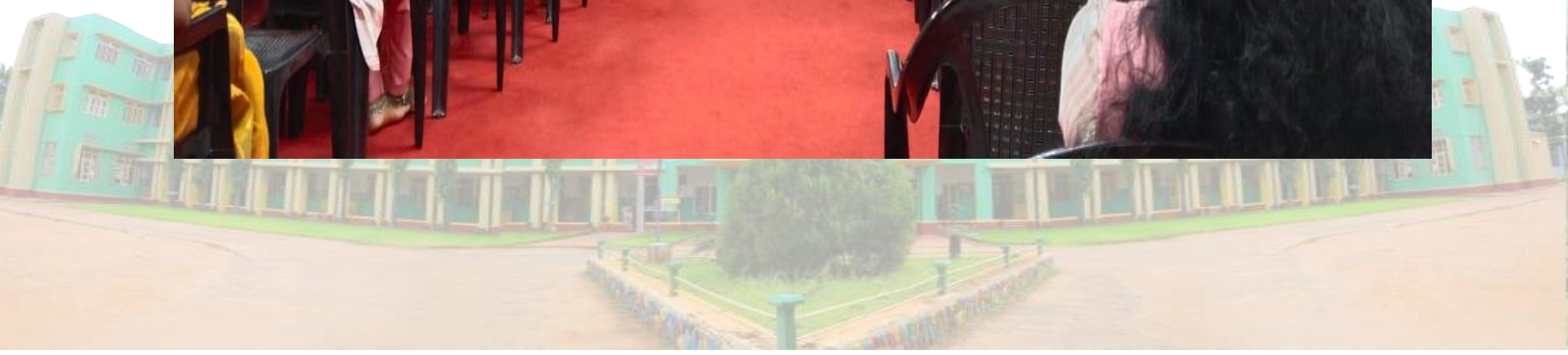
சென்னை நகரில் உள்ள கல்வி நிறுவனங்களின்
அறிக்கை

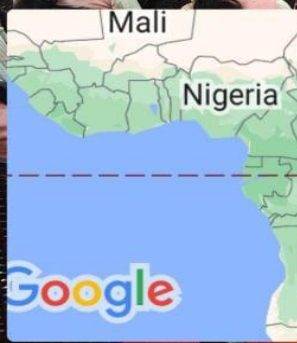
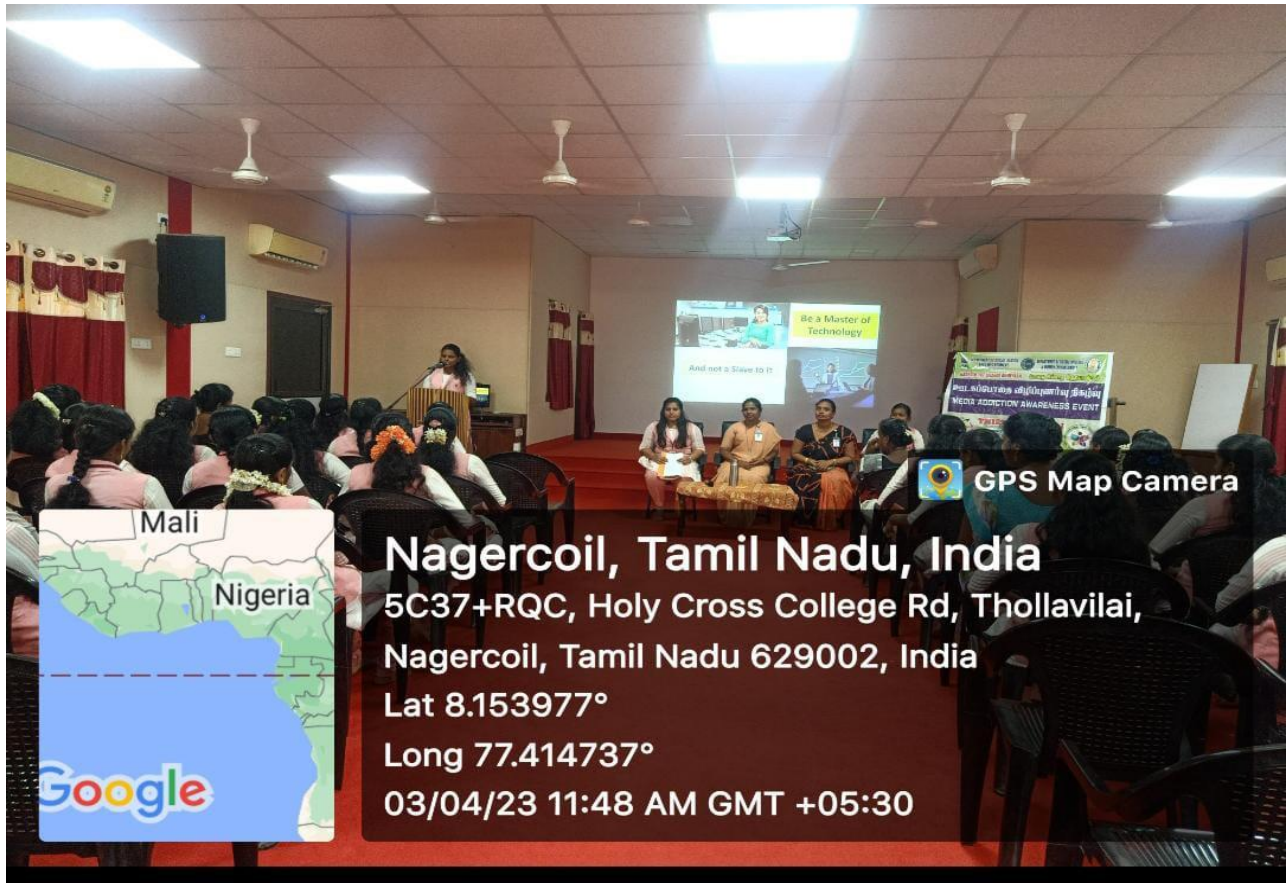
3/4/2023 அன்று மாணவர்கள் அறிக்கை
காண 11.30 மணிக்கு தொடங்கி இறுதி
பாடல், இன்றையதினம் மாணவர்கள் தயாரிப்புகள்
உடனடியும் பாட அறிக்கை தொடர்ந்து
இன்றையதினம் மாணவர்கள் அறிக்கை
அறிக்கையையும் உடனடியும் பதிவு செய்தனர்.
இன்றையதினம் மாணவர்கள் மாணவர்கள் மாணவர்கள்
பெரிய அளவில் தொடர்ந்து மாணவர்கள்
உடனடியும் அறிக்கை தொடர்ந்து
இன்று அறிக்கை அறிக்கை தொடர்ந்து. அறிக்கை
பெரிய அளவில் இன்றையதினம் தொடர்ந்து
இரு பாதையில் தொடர்ந்து தொடர்ந்து
நீண்ட. நீண்டதும் இன்றையதினம் மாணவர்கள்
E. சக்தி நீண்டதும் நீண்டதும் பதிவு செய்தனர்
நீண்டதும் நீண்டதும் நீண்டதும்.

பிரபாகர்
E-Sakthi
J. Infanta Reshmi
மாணவர்கள் மாணவர்கள் மாணவர்கள்

மாணவர்கள்
Department of Tamil
Holy Cross College (Autonomous)
Nagercoil - 629 004.

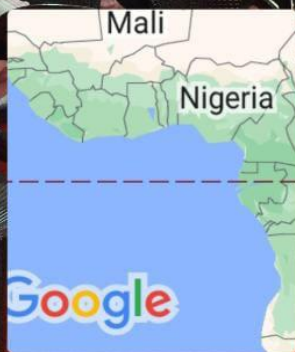
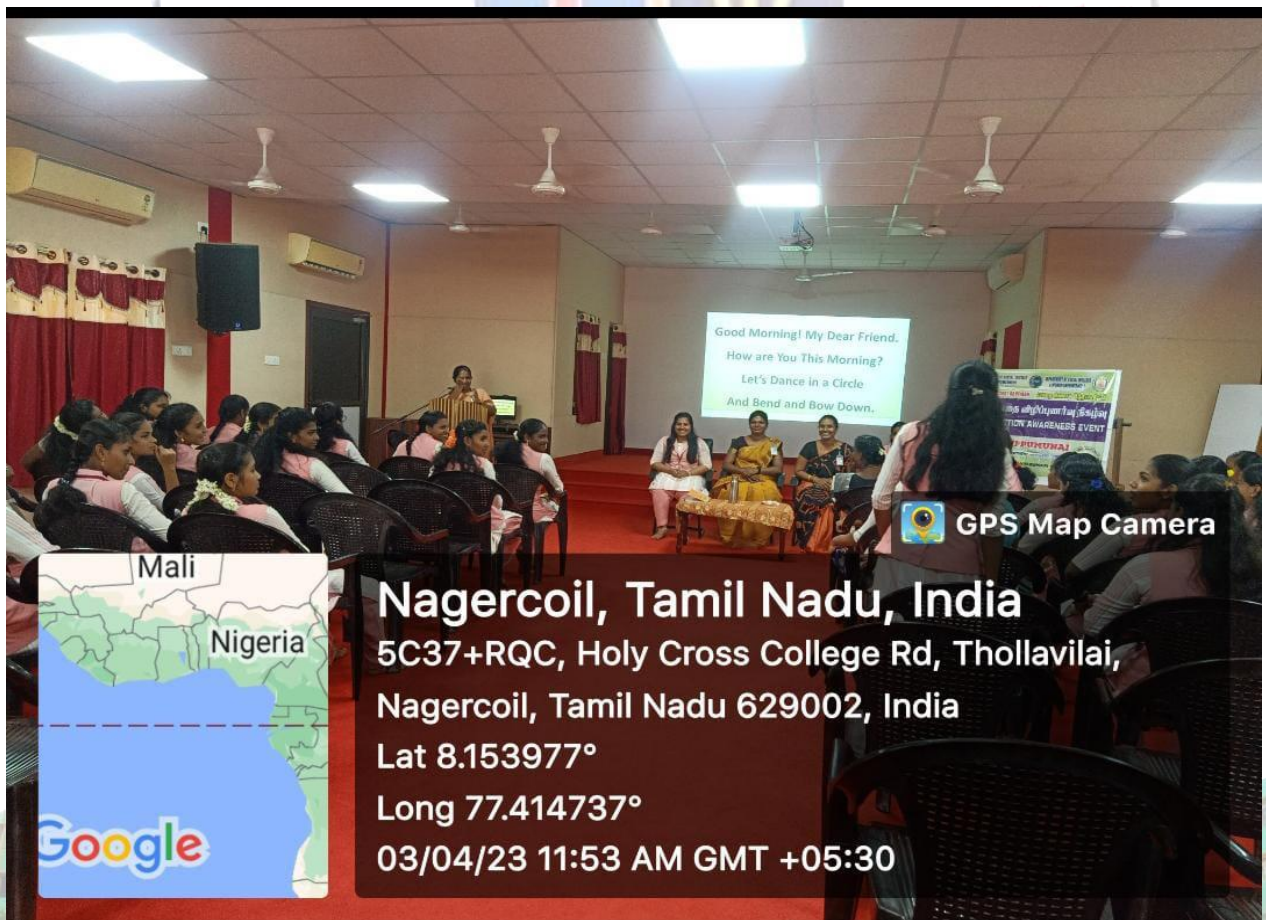






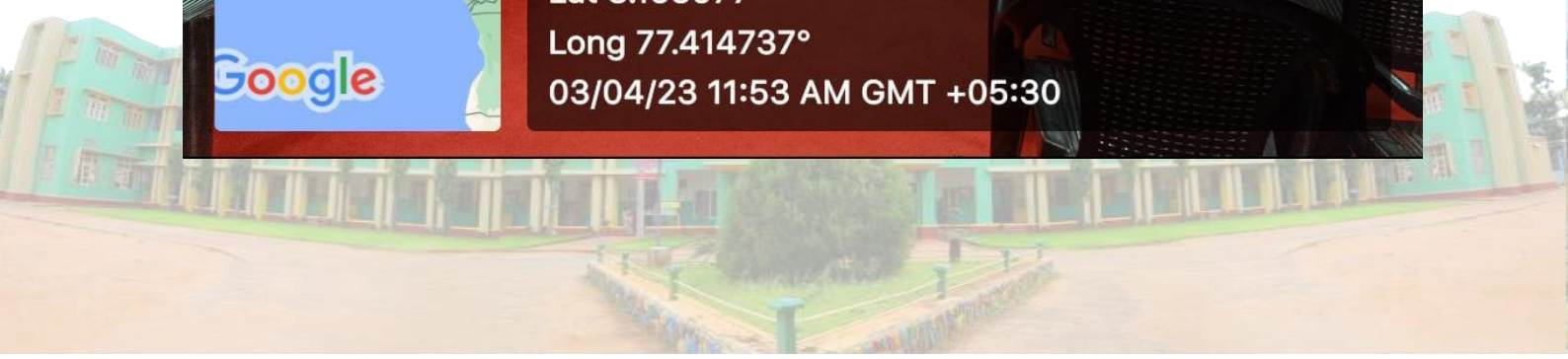
Nagercoil, Tamil Nadu, India
5C37+RQC, Holy Cross College Rd, Thollavilai,
Nagercoil, Tamil Nadu 629002, India
Lat 8.153977°
Long 77.414737°
03/04/23 11:48 AM GMT +05:30

GPS Map Camera



Nagercoil, Tamil Nadu, India
5C37+RQC, Holy Cross College Rd, Thollavilai,
Nagercoil, Tamil Nadu 629002, India
Lat 8.153977°
Long 77.414737°
03/04/23 11:53 AM GMT +05:30

GPS Map Camera



Semester VI
Skill Enhancement Course (SEC): Audio – Visual Aids
Course Code: SEC206

Hours / Week	Credit	Total Hours	Marks
2	2	30	100

Objectives:

1. To understand various teaching aids
2. To develop the skill of preparing different kinds of teaching aids

CO.NO	Upon completion of this course, students will be able to	PSOs addressed	CL
CO - 1	Explain how to Preparation of Charts	PSO – 1	An
CO - 2	Discusses about the models	PSO – 1	Ev
CO - 3	Explain about the Preparation of Album	PSO – 1	U
CO – 4	To acquire Knowledge about Preparation of Over Head Projector	PSO – 1	R
CO – 5	Discusses about the importance's of Power PointPreparation	PSO – 1	An

Unit I

Define Audio Visual Aids – Classifications of Audio Visual Aids - Preparation of Charts – Outline of the chart – Writing with Indian ink – varieties of charts – tree charts – flow charts – pictorial charts – Types of Boards

Unit II

Working and non working models — clay models – making maps, freedom fighters Cutout.

Unit III

Preparation of Album – National leaders, Scientists, Poets, Sports, Excavation Places, National park and Tourist centers

Unit IV

Preparation of Over Head Projector Sheets - National leaders, Scientists, Poets,

Unit V

Preparation of Power Point- Integrated Power Point - National leaders, Scientists, Poets, tourist centers, animals, birds and plants

Reference Books:

1. Nagarajan, K. (2007). *Educational Innovation*. New Delhi, Sambha Publications.
2. Nagarajan, K. (2008). *Educational Technology*. New Delhi, Sambha Publications.



SEMINAR ON DIGITALIZATION IN INDIA



PG & RESEARCH DEPARTMENT OF ECONOMICS
Holy Cross College (Autonomous), Nagercoil



PG & RESEARCH DEPARTMENT OF ECONOMICS
HOLY CROSS COLLEGE (AUTONOMOUS)

*Affiliated to Manonmaniam Sundaranar University, Accredited with A+ Grade
(CGPA - 3.35) by NAAC (IV Cycle), Nagercoil - 629004, Tamil Nadu*

in collaboration with

PG & RESEARCH DEPARTMENT OF ECONOMICS
S.T. HINDU COLLEGE

*Affiliated to Manonmaniam Sundaranar University, NIRF 2022 -
Rank Band 151-200, Nagercoil- 629002, Tamil Nadu*

Organizes National Seminar on

DIGITALIZATION IN INDIA

On 21-03-2023

Resource Persons



Dr. P. Arunachalam

Professor of Economics
Cochin University of Science and Technology
Kochi, Kerala



Dr. P. Geetha

Associate Professor
Department of Economics
Sri GVG Visalakshi College for Women
Udumalpet



Dr. M. Selvaraj

Assistant Professor
Department of Economics
Loyola College (Autonomous), Chennai

**Venue: Multipurpose Hall,
Holy Cross College (Autonomous), Nagercoil**

Date : 21- 03-2023

Theme / Objective : To impart information on the scope and demand of digitization in India

No of Beneficiaries : 219

Organized by : PG & RESEARCH DEPARTMENT OF ECONOMICS
Holy Cross College (Autonomous)
in collaboration with
PG & RESEARCH DEPARTMENT OF ECONOMICS
S.T. Hindu College

Venue : Multipurpose Hall

Department of Economics, Holy Cross College in collaboration with Department of Economics, St. Hindu College organized a one-day National seminar. On 21th March 2023, one day National Seminar on “*DIGITALIZATION IN INDIA*” was held in the Multipurpose Hall. Holy Cross college in collaboration with S.T Hindu college organized a National Seminar on the 21st of March held at Holy Cross College. The topic discussed was “Digitalization in India”. The Inaugural session began with the Prayer Song by the department choir. Dr. S. Jeni Sanjana, Assistant Professor Department of Economics delivered the welcome address.



The Departmental Magazine was released. The first copy of Department Magazine “ECON-SPECTRUM” 2022 – 2023 was released by our Secretary Dr. Sr. Mary Hilda, and felicitated the gathering. She appreciated the staff member of Department of Economics for the innovative Programmes and Best Practices followed. She highlighted the importance of Digitalization.



The keynote address was given by Dr. P. Arunachalam, Professor of Economics, Cochin University of Science and Technology, Kochi, Kerala. In the topic “Technology Driven System for Amrit Kaal-2023” and our secretary released the Manjapai. Manjapai (yellow bags) was distributed to all the participants. Dr. Sr. Mary Gilda (secretary, Holy cross College) inaugurated the Seminar. Three resource people, Dr. P. Arunachalam, Dr. P. Geetha, and Dr. M. Selvaraj were invited for discussion. Both the institutions identified the rising demand and importance of Digitalization and decided to impart various information on accessibility and sustainability of it Dr. Subbiah, Head of the Department of Economics, S.T. Hindu College proposed the vote of thanks. The event was arranged by the organising secretaries: Dr. S. Jeni Sanjana (Assistant Prof. of Economics, Holy cross College) and Dr. C. A. Sham Shankar (Assistant Prof. of Economics, S.T Hindu College) and Conveners Dr. S. Vimal Doli (HOD, Holy cross College)



The Technical Session – I was handled by Dr. Geetha, Associate Professor of Economics, Sri GVG Visalakshi College for Women, Udumalpet in the topic "Reskilling and Upskilling the Labour Market for Digital Catch-Up."



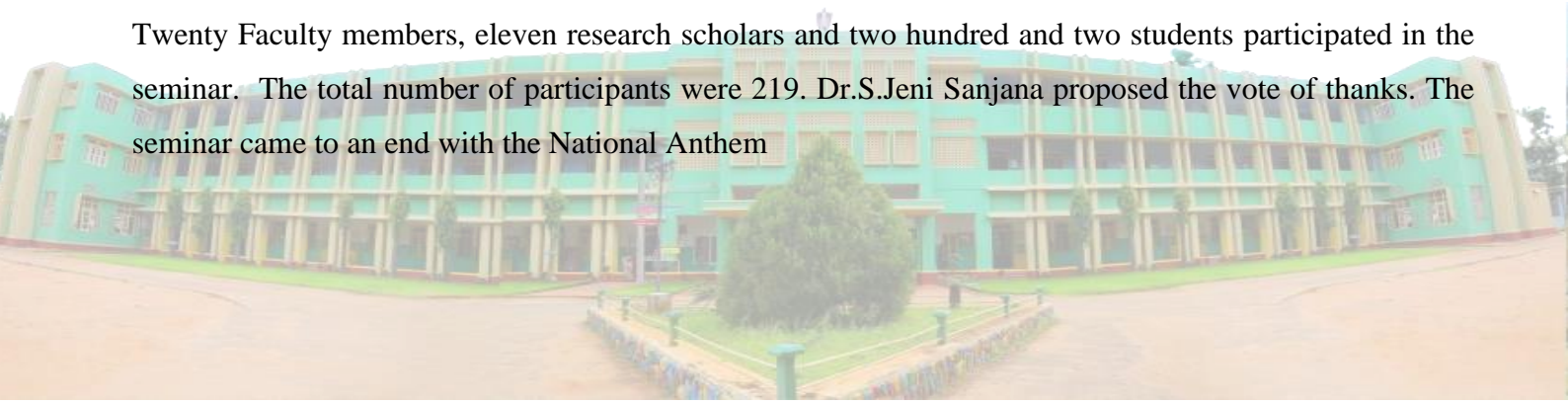
The Technical Session – II was handled by Dr. M. Selvaraj, Assistant Professor of Economics, Loyola College, Chennai. His topic was "Digitalisation-A Booster Economy". Dr. S. Vimal Dholi welcomed the resource person and Dr. G. M. Victoria proposed the Vote of Thanks.



The afternoon session was assigned for paper presentation which was held in our Multipurpose Hall. Assistant Professors of Economics, Holy Cross College (Autonomous), Nagercoil and Assistant Professors of Economics, Hindu College, Nagercoil served as Chairperson for paper presentation.



After the paper presentation session, our Vice Principal Dr. Sr. Leema Rose addressed the gathering and motivated the students to present and publish a greater number of papers and distributed the certificates. Twenty Faculty members, eleven research scholars and two hundred and two students participated in the seminar. The total number of participants were 219. Dr.S.Jeni Sanjana proposed the vote of thanks. The seminar came to an end with the National Anthem



COMPUTER LITERACY

Computer literacy course aimed to teach first-year students the basic concepts of using computers. The program included theoretical classes and practical sessions, providing students with a comprehensive understanding of computer usage. A total of four hundred and seventy three students benefited from this initiative. It equipped them with essential computer skills, helping them to thrive in the digital era and enhancing their overall knowledge related to computers.

Semester II
Skill Enhancement Course (SEC): Computer Literacy
Course Code: SEC202

Hours/Week	Credits	Total no. of hours	Total marks
2	2	30	100

Objective

To enable students to understand the basic working of ms office which includes ms word, excel and powerpoint.

Unit I

Microsoft Word: Starting MS-Word – Introduction to word 2007 user interface – Understanding document views – Creating a new document – Saving a file – Printing a document – Opening an existing file – Microsoft word 2007 basic features.

Unit II

Formatting text – Formatting paragraphs – Graphics – Tables – Page Setup – Bullets and Numbering – Columns and Ordering – Text Boxes – Mail Merge.

Unit III

Microsoft Excel: Starting MS- Excel – Introduction to Excel 2007 user interface – Creating a New workbook – Saving a workbook – Opening an Existing workbook – Entering data into a cell – Selecting cells – Entering data using autofill – Using merge & center – Sorting data – Creating a table – Formatting a table.

Unit IV

Adjusting cell data alignment – Changing cell data orientation – Adding border to cell – Basic operations on worksheet – Advanced operations on worksheets – Resizing columns and rows in a worksheet – Using formulas and functions – Charts.

Unit V

Microsoft PowerPoint: The PowerPoint window – PowerPoint views – Create a new presentation - Changing a slide layout – Inserting text on a new slide – Inserting a new slide – Rearrange the order of slides – Delete a slide – Save a presentation – Applying themes to a presentation – Change background style – Creating a textbox – Format textboxes – Add an image – Format an image – WordArt – Slide transitions – Slide animation - Setup slide show.



Text Book

1. J. Antolleczie Bai & S. J. Jenepha Mary, "Step Into Microsoft Office2007".

LAB EXERCISES

MS WORD

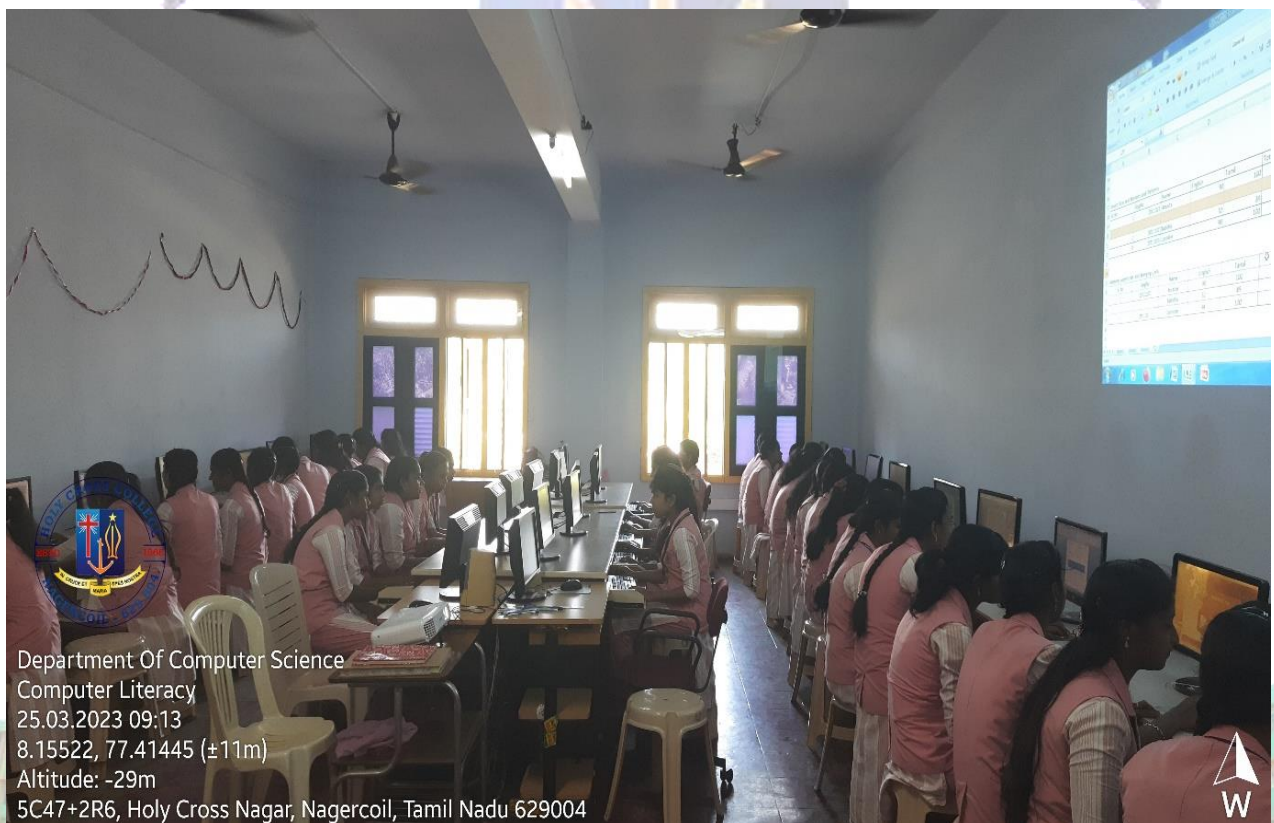
1. Design an Invitation
2. Design a Book Cover
3. Prepare a Calendar
4. Mail Merge

MS EXCEL

1. Mark Sheet Preparation
2. Chart
3. Macro
4. Built-in Functions

MS POWERPOINT

1. Creating Resume
2. Birthday Greeting Card





GPS Map
Camera Lite

5C47+2R6, Holy Cross Nagar, Nagercoil, Tamil Nadu
629004, India

Latitude
8.1551814°

Longitude
77.4144308°

Local 10:03:08 AM
GMT 04:33:08 AM

Altitude 10.71 meters
Tuesday, 15.11.2022



Holy Cross College
Computer Literacy
24.03.2023 10:44



ORIENTATION SESSION ON GOOGLE CLASSROOM

Holy Cross College (Autonomous), Nagercoil, organized an orientation session to guide students on effectively utilizing Google Classroom. With an emphasis on modernizing the learning process, the session aimed to familiarize participants with the various features and functionalities of the platform. Through interactive demonstrations and hands-on exercises, students were introduced to the seamless integration of resources, assignments, and communication tools within Google Classroom. The orientation covered essential aspects such as joining classes, submitting assignments, participating in discussions, and accessing educational materials. Moreover, the orientation emphasized the importance of regular engagement with the platform to stay updated on announcements and course materials. Students were encouraged to explore the platform's features independently to maximize its utility for their learning needs. The session concluded with a Q&A segment, allowing students to address any queries and ensuring their confidence in navigating Google Classroom for enhanced academic engagement. Overall, the orientation provided students with valuable insights into harnessing the power of digital platforms for efficient and collaborative learning. 2095 students attended the orientation.

