



# 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

## INNOVATIONS IN ASTROPHYSICS

**HOLY CROSS COLLEGE (Autonomous)**  
**Nagercoil-629004**  
(Accredited by NAAC with A+ (IV Cycle) CGPA - 3.35)

**In commemoration of National Science Day**  
**DEPARTMENT OF PHYSICS**  
**And**  
**INSTITUTIONS INNOVATION COUNCIL (IIC)**  
**Organizes**  
**National Webinar on**  
**Innovations in Astrophysics**

**February, 28**  
**2022**

**Resource Person**  
**Dr. S. VIJIKUMAR**  
Director,  
Tamilnadu Scientific Research Organization,  
Pudukkottai

**1.30 pm**  
**to**  
**3.00 pm**

**Organizing Committee**

**Patron** :Dr. Sr. Gerardin Jayam, Secretary  
**President** :Dr. Sr. Anne Perpet Sophy, Principal  
**NISP Coordinator** :Dr. Sr. Sahaya Selvi

**Programme Coordinators:**  
**Dr.C. Nirmala Louis (HoD)**  
**Dr. S. Sonia**

### INNOVATIONS IN ASTROPHYSICS

<b>Date</b>	: 28-02-2022
<b>Duration</b>	: 01:30 P.M – 03:00 P.M.
<b>No. of student participants</b>	: 98
<b>Beneficiaries</b>	: III B. Sc Physics-45, I M. Sc Physics- 25, II M. Sc Physics- 23, Research Scholars-5
<b>Objective</b>	: To make the students to get an aware on Aerospace technology, sounding rockets etc.

The National Webinar on the topic “Innovations in Astrophysics” was held on 28.02.2022, organised by the Department of physics in association with Institution’s innovation council, Holy Cross College (Autonomous), Nagercoil. Totally 98 students were participated in this webinar. The purpose of this session was to excite young innovators and creators in the field of astrophysics, sounding Rockets etc. The programme starts with the prayer song sung by Arockiya Ashely and her team from III B. Sc Physics. Jafrin Ashima, III Physics welcomed the gathering. The Resource Person was Dr. S. Viji Kumar, Director, Tamil Nadu Scientific Research Organisation, Pudukkottai. He is the Founder Director, Tamil Nadu Scientific Research Organisation since 1997. He is also President, Bose Science Society, Pudukkottai since 1999. He also received Best Environmental Conservationist Award in the year 1995. All the III B. Sc Physics students, I and II PG students were preferred to attend this programme. There was great eagerness and curiosity among the students and they were highly determined. This webinar helps the students to understand how different satellites functions in their recent innovations in model. At the end of the webinar, Merisha. M, II M.Sc Physics proposed the vote of thanks.



**Nagercoil, Tamil Nadu, India**

42C, Thangam St, Thollavilai, Nagercoil, Tamil Nadu 629002, India

Lat 8.153903°

Long 77.414783°

28/02/22 02:07 PM

GPS Map Camera





**Nagercoil, Tamil Nadu, India**

42C, Thangam St, Thollavilai, Nagercoil, Tamil Nadu 629002, India  
Lat 8.153884°

Long 77.414846°  
28/02/22 02:04 PM

## MULTIMEDIA TRAINING



**HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL-4**  
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Accredited with A+ grade by NAAC- IV Cycle (CGPA 3.35)



### DEPARTMENT OF PHYSICS ORGANISES VALUE ADDED COURSE

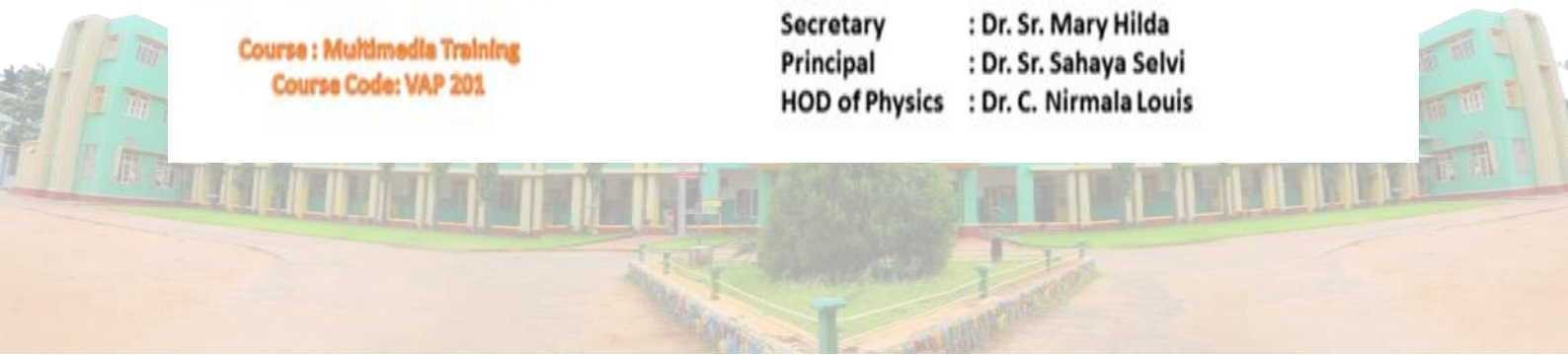
Interested Students shall register  
their names on or before  
14.12.2021 to  
Dr. C. Nirmala Louis, HOD,  
Department of Physics  
Holy Cross College  
Nagercoil

**Multimedia Training**  
In collaboration with  
Jayam Computers,  
Nithiravilai

**Date:**  
**15.12.2021 to**  
**23.12.2021**

**Course : Multimedia Training**  
**Course Code: VAP 201**

Secretary : Dr. Sr. Mary Hilda  
Principal : Dr. Sr. Sahaya Selvi  
HOD of Physics : Dr. C. Nirmala Louis



<b>Date</b>	: 15-12-2021 to 23-12-2021
<b>Duration</b>	: 09:00 A.M – 03:15 P.M.
<b>No. of student participants</b>	: 41
<b>Mode of session delivery</b>	: Offline
<b>Beneficiaries</b>	: II B. Sc Physics
<b>Objective</b>	: Develop the skill to create pictures, graphics visuals for numerous resolutions, including social media, websites, print materials. Explore imaginative features of Photoshop for digital art creation.
<b>Benefits</b>	: Students able to get the necessary skills to create digital illustrations, paintings, and other forms of visual art. Gain confidence in their abilities to tackle design challenges and bring their creative ideas to execution.

The value-added course on the topic Multimedia Training was held from 15-12-2021 to 23-12-2021, organised by the department of Physics, Holy Cross College (Autonomous), Nagercoil. Totally 41 students were registered and participated in this course. The purpose of this session was to excite young entrepreneurs in the field of photoshop, website design, graphics etc. The course instructor was Mrs. Jeya Sheeba, Managing Director, Jayam Computers, Nithiravilai. In addition to her, one of our staff Dr. M. Abila Jeba Queen Assistant Professor, Department of Physics, Holy Cross College (Autonomous), Nagercoil were also helped her. All the II B. Sc Physics students were preferred to attend this course Multimedia Training. There was great eagerness among the students and they were highly determined. Students gained the confidence to develop a high level of proficiency in using Photoshop which is valuable in various professional fields such as graphic design, web development, marketing, advertising and photography. On 23-12-2021, at 3:15 P.M. the course came to an end.







COMPUTER HARDWARE TRAINING

**ANNAI BEST CARE**  
*Computer clinic & Education*  
**(GOVT.REGD & AFFILIATED TO AISECT)**  
**AISECT- Core Supported Organisation of Dept. Of Science & Technology Govt of India (Reg:T 088)**  
**Regd. Under Govt of Tamilnadu (Reg:330148453 E(SSI))**  
**NAGERCOIL-629002, KANNIYAKUMARIDT, TAMILNADU, INDIA**

15.12.2021  
to  
23.12.2021

Computer  
Hardware  
Training

Value Added  
Courses

Those who are willing to join  
the course can contact  
**Dr. C. Nirmala Louis,**  
**Head, Department of Physics,**  
**Holy Cross College (Autonomous)**

6  
Days

Fee  
Rs.1250/-

<b>Thrust Area</b>	: Skill Development
<b>Date</b>	: 15-12-2021 to 23-12-2021
<b>Duration</b>	: 09.00 A.M – 03.15 P.M.
<b>No. of student participants</b>	: 25
<b>Beneficiaries</b>	: II M. Sc Physics
<b>Objective</b>	: To gain hands-on experience and knowledge about various hardware components, including CPUs, RAM, storage devices, motherboards, power supplies, and peripheral devices.
<b>Benefits</b>	: Training helps the students to understand how different hardware components work together and the importance of compatibility.





The Department of Physics, Holy Cross College (Autonomous), Nagercoil hosted a summer training session on the theme of "Computer Hardware" from December 15, 2021, to December 23, 2021. A total of twenty-five students signed up for and took this course. This event was designed to inspire young and energetic student community to pursue careers in computer hardware components. Mr. T. Sahaya Suresh Selvan, the proprietor of Annai Best Care Computer Clinic and Education in Nagercoil, Mr. T. Sahaya Suresh Selvan, was the instructor for the course. Along with him, he received assistance from Dr. A. Lesly Fathima, Assistant professor in the Physics department of Holy Cross College (Autonomous), Nagercoil. The course began at 9 a.m. on December 15, 2021. It was preferred that all II M.Sc. Physics students take this course. The students demonstrate their abilities to identify and fix hardware-related problems with computers. To remedy hardware issues, this entails comprehending error codes, utilizing diagnostic tools, and putting problem-solving strategies to use. Students kept up with the latest technological developments. increased self-assurance when using computer hard wares. The course ends at 3:15 PM on December 23, 2021.

### WHAT'S YOUR TECHNOLOGY



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NAGERCOIL, TAMILNADU, INDIA

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**Student Forum of Department of Commerce  
(Self Financed -I)**  
Organises a Seminar  
on  
**“What is your Technology ?”**



**RESOURCE PERSON : S. ANUSHA MINI**  
II M.Com  
Date : 25/02/2022

## NAAC V Cycle Self Study Report (SSR)

A student seminar was conducted by the Student Forum of the Department of Commerce SF - I on 25-02-2022. Ms. S. Anusha Mini, a student of II M. Com was the resource person. She spoke about the new technological development used by the student community in the present scenario. 210 students and all the staff members of the Department of Commerce SF - I have attended the seminar.





## CERTIFICATE COURSES

Holy Cross College (Autonomous), Nagercoil organized various certificate programs for the academic year 2021-2022, starting on March 2, 2022. These programs aimed to develop and enhance students' talents. Web Designing was organized by Creative Technologies and Holy Cross Academy in Collaboration with Institution Innovation Council, benefiting thirty-five students. Python and Basics of Photoshop was organized by Trivia Tech Learning Solutions and Holy Cross Academy in Collaboration with Institution Innovation Council, benefiting thirty-six students. Design Thinking for Innovation and Design Thinking for Innovation and Problem Solving were organized by Atesh Labs India and Holy Cross Academy in Collaboration with Institution Innovation Council, benefiting twenty and thirty-eight students respectively.

### **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 six hundred and twelve 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.



**COMPUTER LITERACY**

**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**

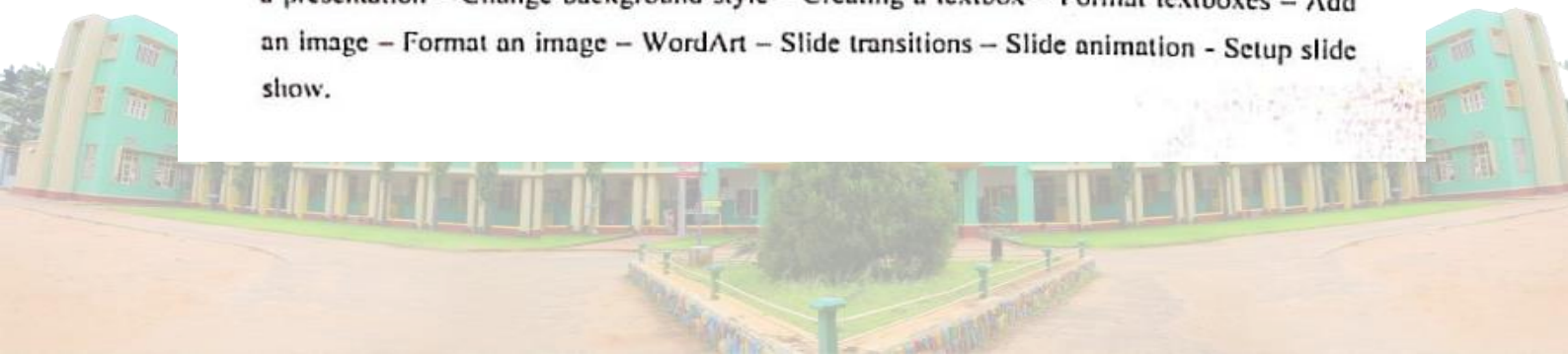
Microsoft Excel: Starting MS- Excel – Introduction to Excel 2007 user interface – Creating a New workbook – Saving a workbook – Opening an Existing workbook – Entering data into a cell – Selecting cells – Entering data using autofill – Using merge & center – Sorting data – Creating a table – Formatting 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. Antollepzie Bai & S. J. Jenepha Mary, "Step Into Microsoft Office 2007".

**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

**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. 2103 students attended the orientation.

GOOGLE CLASSROOM SUBMISSION OF ASSIGNMENT

M.Sc. Biostatistics 2022      Instructions      Student work

Return    20 points

All students

Student Name	Status
Amala Ajisha	Turned in
Ananthi R	Turned in
Brisca Renuga .F	Turned in late
Dhilsa Singh	Turned in
Dimcy Merlin	Turned in
Geoshni George	Turned in
Harishma .N	Turned in
Jemsitha Hanifa	Turned in
kashmeera harani kashmeera	Turned in
Muthu Jeba Subitha	Turned in
S Snekha	Turned in
Selsiya Simson raj	Turned in
Shalini Raj	Turned in
Shimoni Berous	Turned in
Sushma E	Turned in
Jebisha J	Missing
Jenifer	Missing
Mergin Nisha	Missing
Mini Mini	Missing
Ramya Kumar	Missing
Vindiya Vinitha	Missing
Vishnu Priya	Missing

ESTD 1965

QUIZ THROUGH QUIZZES

