



# 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

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT-enabled tools including online resources for effective teaching and learning process

## ALBUM & POSTER MAKING

### ROOT MAP ON HARAPPA CULTURE



Time: 17-11-2022 14:18  
Note: 4-11-22



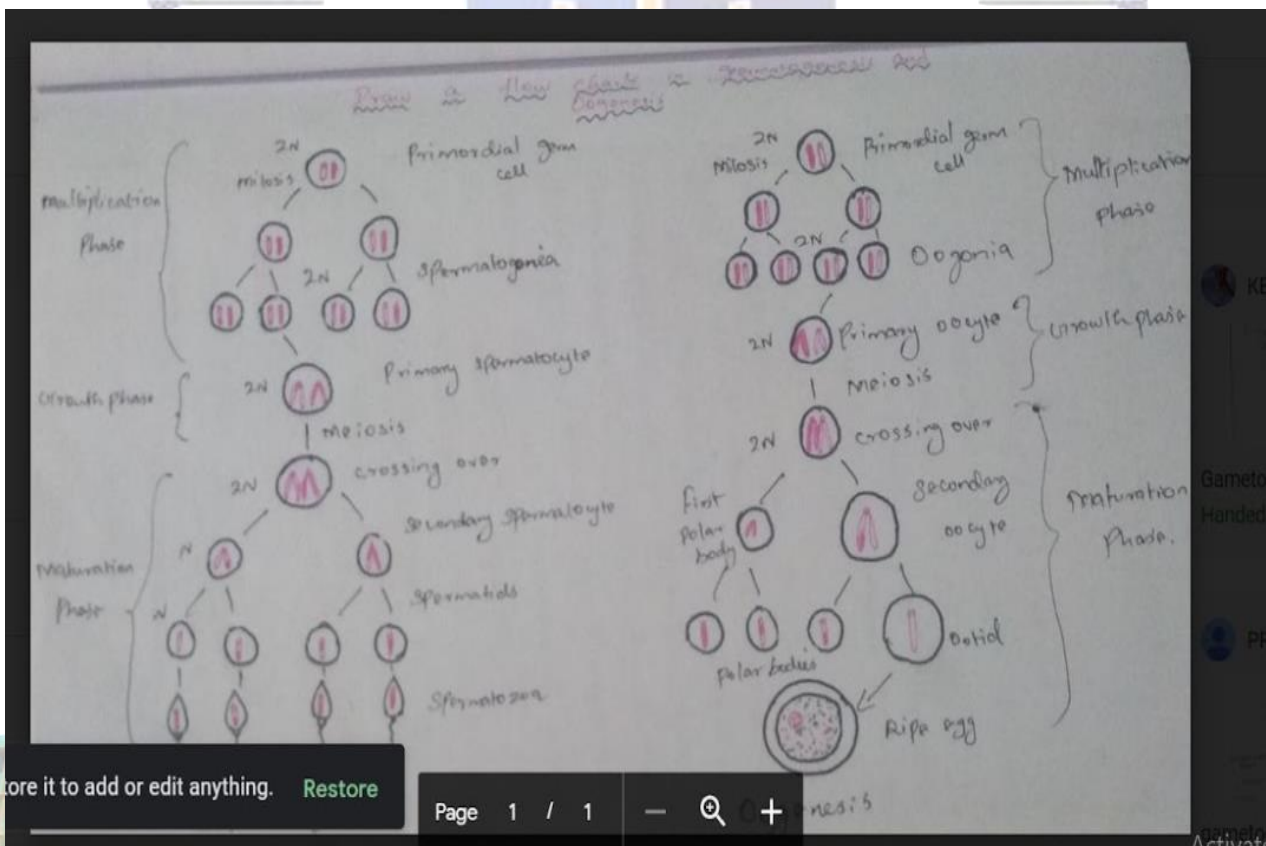
CHART WORK



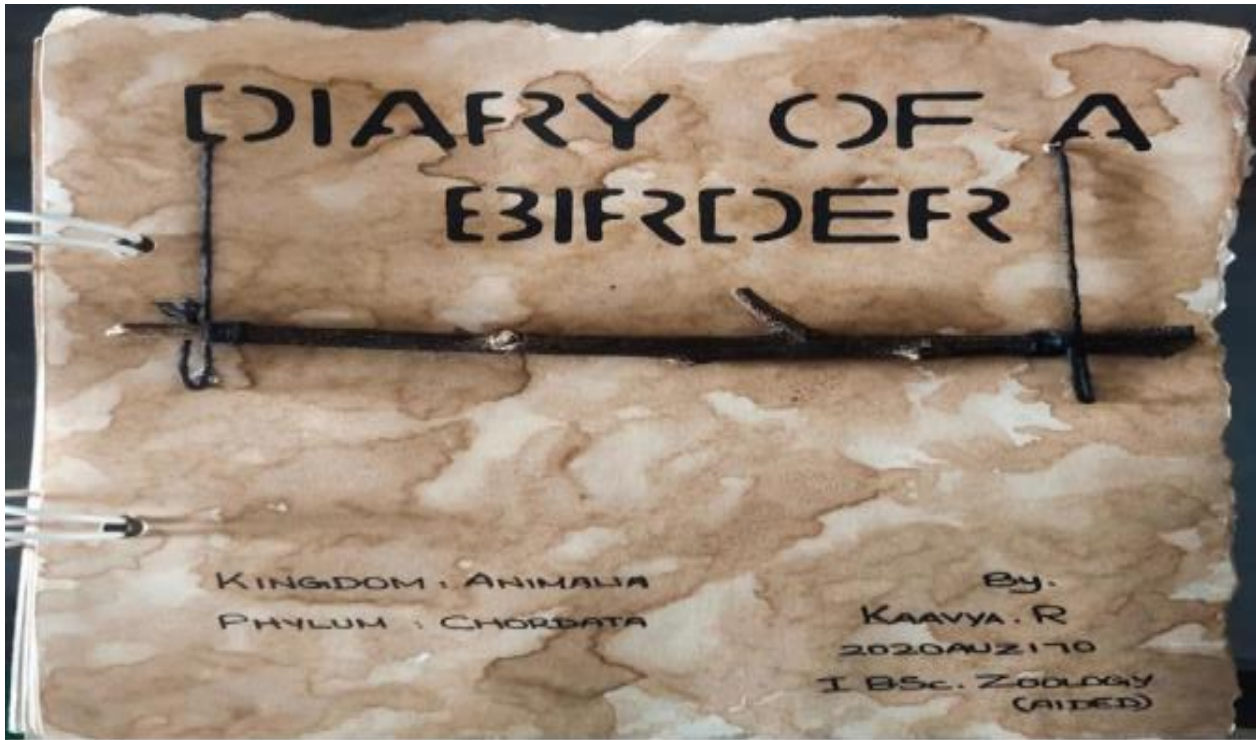
ESTD

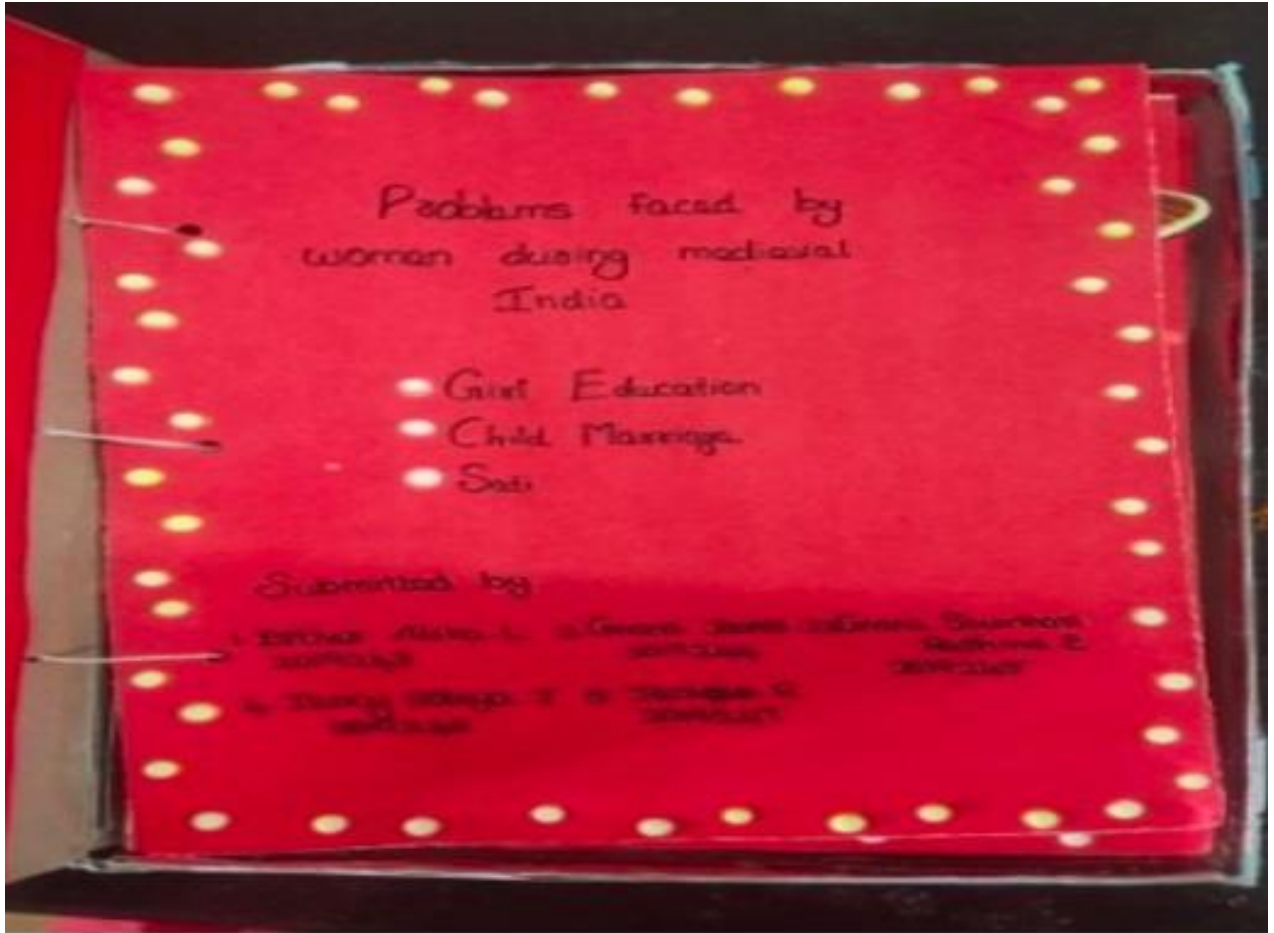
FLOW CHART

1965







ore it to add or edit anything. Restore





BIOLOGY OF EARTHWORM

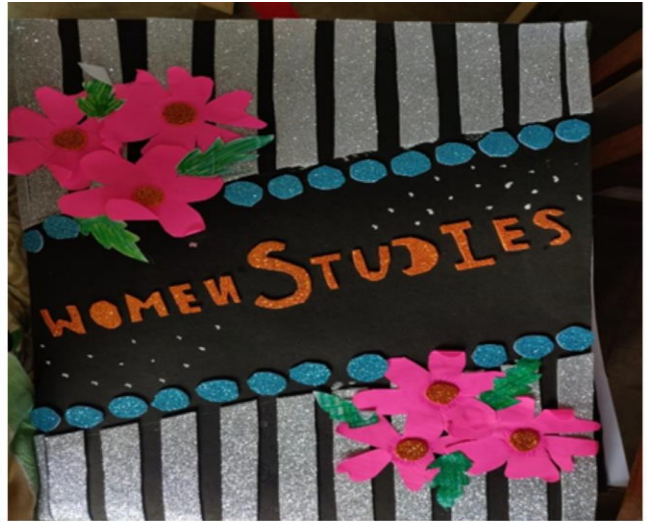
## Biology of Earthworm

 <p style="text-align: center; color: blue; font-weight: bold;"><i>Eisenia fetida</i></p> <ul style="list-style-type: none"> <li>• Chinese worm - red worm, compost worm, manure worm, brandling worm, tiger worm, red wiggler worm, adapted to decaying organic material, thrive - rotting vegetation, compost and manure.</li> <li>• Epigeic - cosmopolitan</li> <li>• Body - long, slender cylindrical, bilaterally</li> <li>• 10 to 13cm long, 1cm thick</li> <li>• Dorsal - pink</li> <li>• Ventral - pale</li> <li>• 100 to 120 segments</li> <li>• Clitellum saddle shaped</li> <li>• Cocoons can survive freezing</li> <li>• It tolerate temperature up to 35oC</li> <li>• Commercially important</li> </ul>	 <p style="text-align: center; color: blue; font-weight: bold;"><i>Lumbricus terrestris</i></p> <ul style="list-style-type: none"> <li>• Dew worm, night crawler, Scrub worm</li> <li>• Large reddish</li> <li>• Native Europe</li> <li>• Cosmopolitan</li> <li>• Lives in permanent vertical burrows (4to 6 feet)</li> <li>• Anecic</li> <li>• Feed soil bound decaying matter</li> </ul>
 <p style="text-align: center; color: blue; font-weight: bold;"><i>Eudrilus eugeniae</i></p> <ul style="list-style-type: none"> <li>• North America, India, South America, Africa</li> <li>• African night crawlers</li> <li>• Larger epigeic species</li> <li>• Live on the soil surface</li> <li>• Feed - decaying plants and animal</li> <li>• Long, slender, cylindrical, metamericly</li> <li>• 9-16.5cm long; 4-8cm thick</li> <li>• Anterior end: bright blue/green</li> <li>• Posterior is faded</li> <li>• Dorsal surface - red</li> <li>• Ventral surface - light brown</li> </ul>	 <p style="text-align: center; color: blue; font-weight: bold;"><i>Megascolex mauritii</i></p> <ul style="list-style-type: none"> <li>• South India</li> <li>• Nocturnal</li> <li>• Light yellowish</li> <li>• Long, slender, cylindrical and bilaterally</li> <li>• 8-21cm long; 3-4cm thick</li> <li>• 100-125 segments</li> <li>• Clitellum 14-17<sup>th</sup></li> <li>• Decaying animal and vegetable matter</li> <li>• Good for vermiculture</li> </ul>

Savigny, 1826      Linnaeus, 1758

Kingberg, 1867      Kingberg, 1867

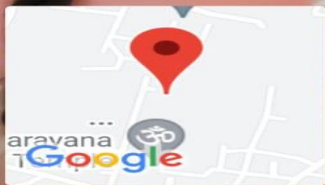
ALBUM PREPARATION



ALBUM MAKING



NAAC V Cycle Self Study Report (SSR)

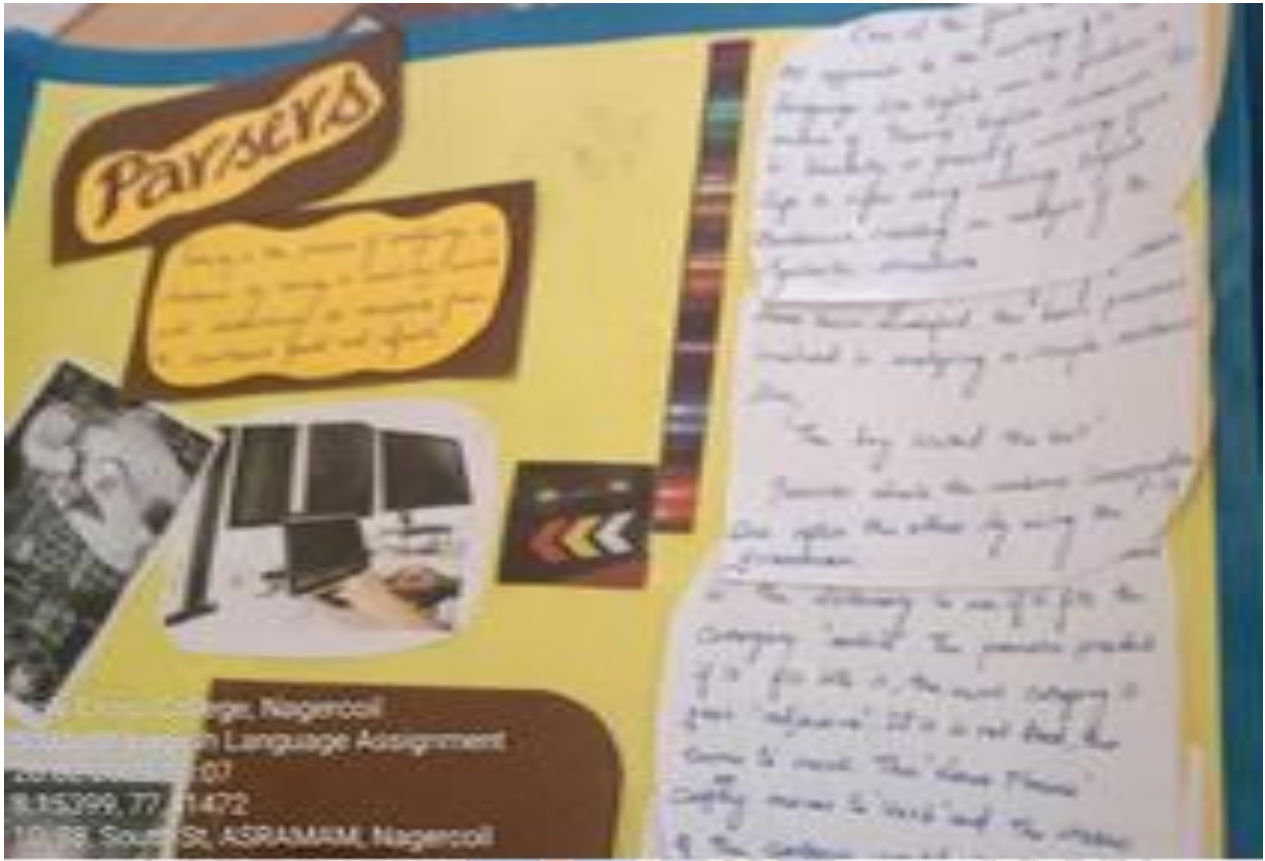


**Nagercoil, Tamil Nadu, भारत**  
5C37+RQC, Holy Cross College Rd, Thollavilai,  
Nagercoil, Tamil Nadu 629002, भारत  
Lat 8.154021°  
Long 77.414825°  
27/07/22 02:01 PM

GPS Map Camera



ALBUM MAKING



Date: 25-03-2023 14:43  
Note: Album work history 25-03-2023





**GENDER EQUALITY STUDIES**

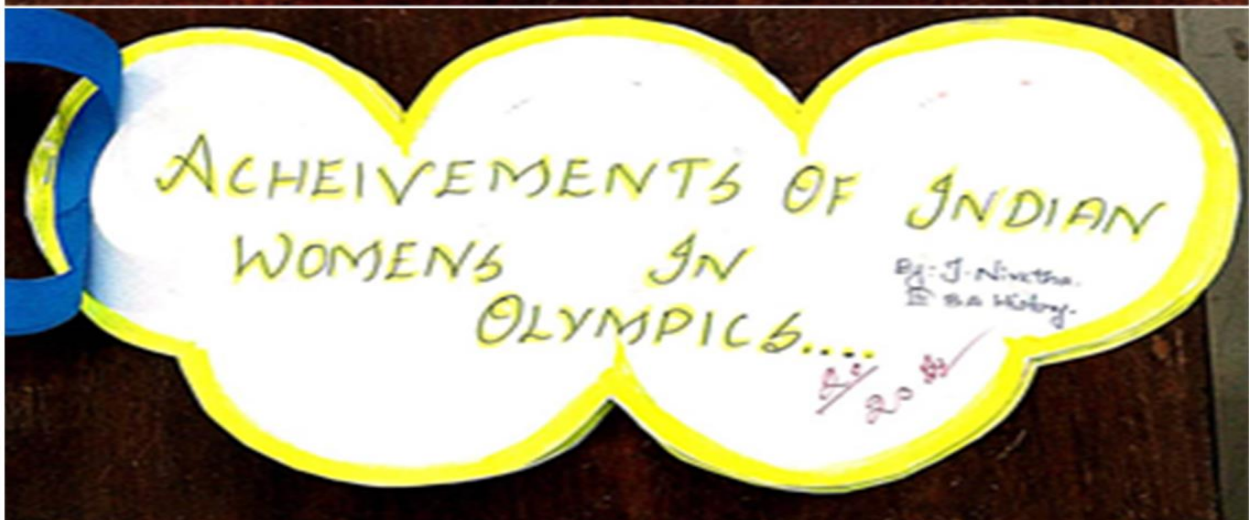
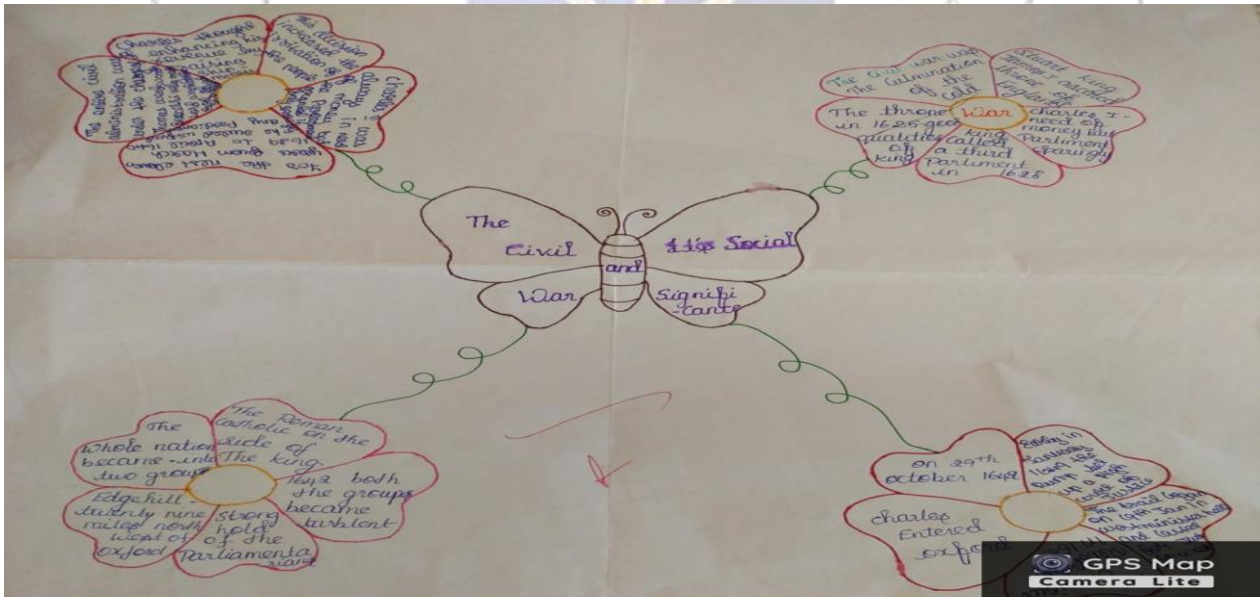


CHART WORK



PREPARATION OF MIND MAP



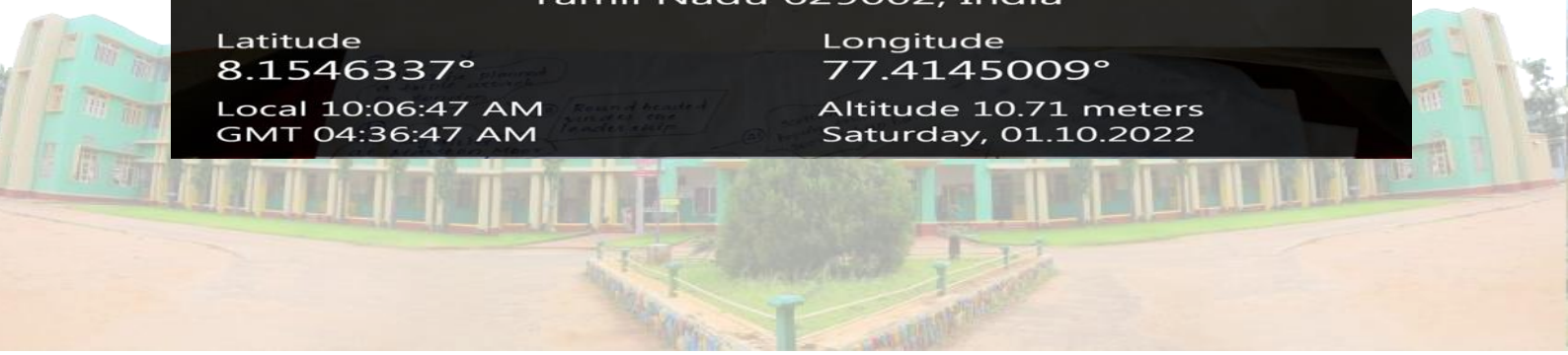
5C37+RQC, Holy Cross College Rd, Thollavilai, Nagercoil, Tamil Nadu 629002, India

Latitude 8.1546337°

Longitude 77.4145009°

Local 10:06:47 AM  
GMT 04:36:47 AM

Altitude 10.71 meters  
Saturday, 01.10.2022



CREATIVE WRITING

அறிமுகம்

என்று பிறர் அறிமுகம்  
உனக்கு தேவையில்லையோ  
அன்று  
உன் அறிமுகத்திற்காக  
ஊர் காத்திருக்கும்  
அது வரை  
அறியாதார் போல் இரு

AGNEL . J  
I.M.Sc.ZOOLOGY

குணம்

கண் ஒன்றானாலும்,  
பார்வை பலவிதம் ....  
மண் ஒன்றானாலும்,  
வாழ்பவர் பலவிதம்...

- ந . அனிஷா பர்வின்

III வருடம் விலங்கியல்

கருகிய மொட்டுக்கள்

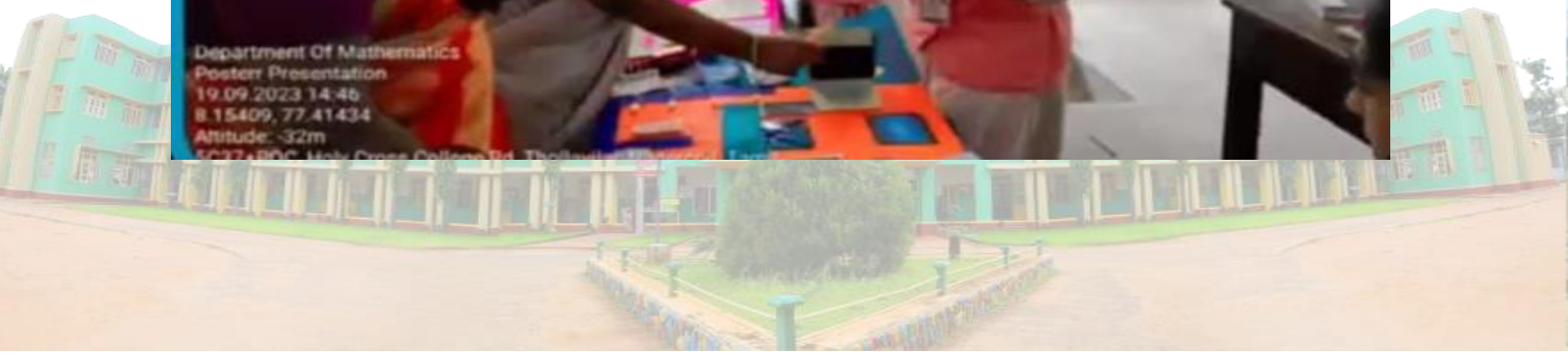
தாவி நிலவை பிடித்தவள்,  
தாவி கையிரை பிடிக்கிறாள்....  
சிட்டாக பறந்தவள்,  
பொட்டோடு நிற்கிறாள்...  
தட்டாங்கல் விளையாடியவள்,  
தட்டோடு நிற்கிறாள்....  
பட்டுபுழு போல் இருந்தவள்,  
பட்டும் படாமலும் சிரிக்கிறாள்....  
மொட்டை வெயிலில் விளையாடியவள்,  
மெட்டியின் ஒலியில் அடங்கினாள்...  
தொட்டில் கட்டி ஆடியவள்,  
தொட்டில் பாட்டு பாடுகிறாள்....  
சிறகடித்து திரிந்தவள்,  
சிறைக்குள் திணருகிறாள்...  
பள்ளிப் பருவம் முடியும் முன்பே,  
பாலகன் கையில் ஏந்துகிறாள்...  
சந்தனம் பூசிய மேனியதன்,  
சாயம் வெளுக்க உழைக்கிறாள்...  
பல்லாங்குழி விளையாடியவள்,  
பாதாள குழி விளிம்பில் நிற்கிறாள்...  
இது என் மொழி அல்ல,  
கலங்கி நிற்கும் குழந்தையின் ஒலி....

- ந . அனிஷா பர்வின்

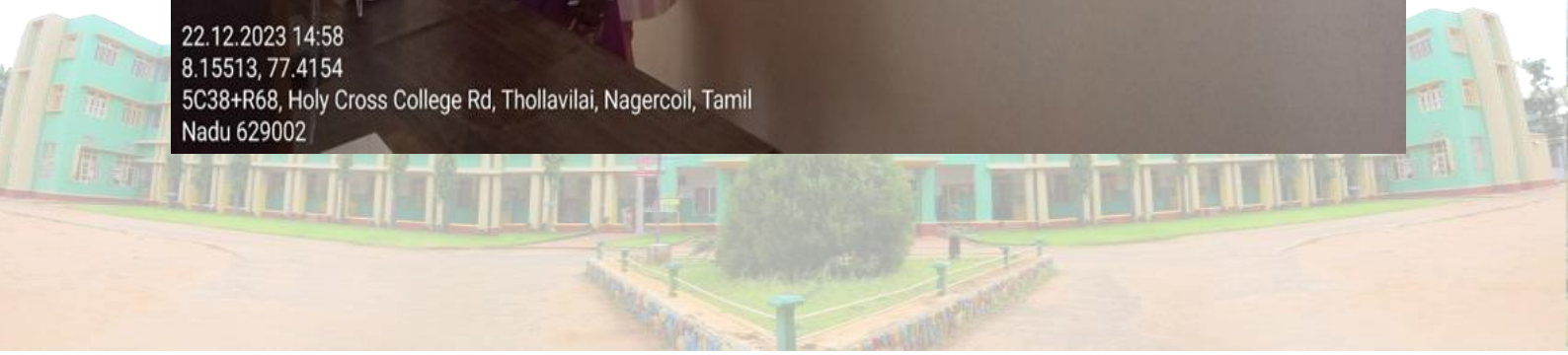
III வருடம் விலங்கியல்



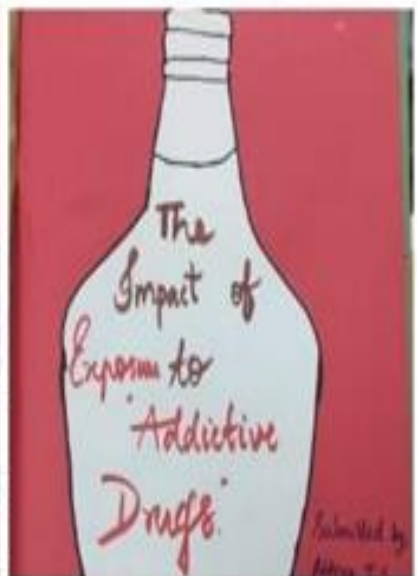
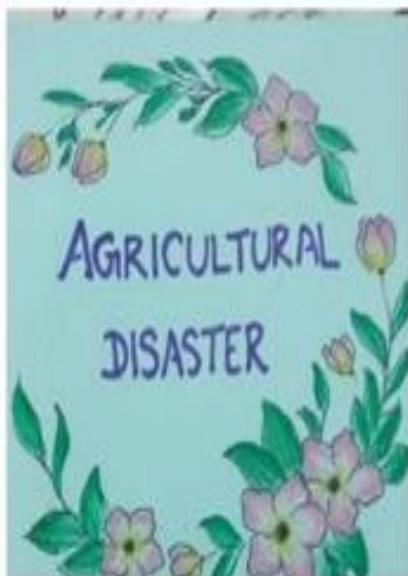
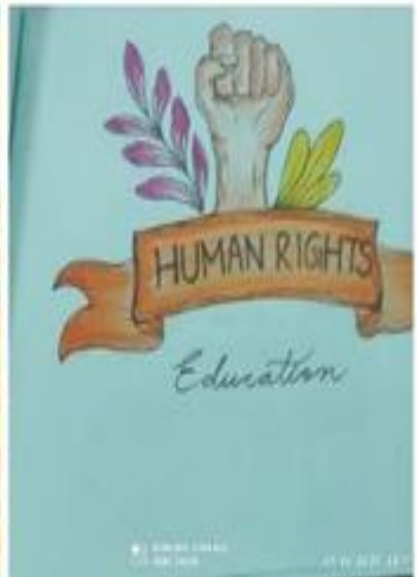
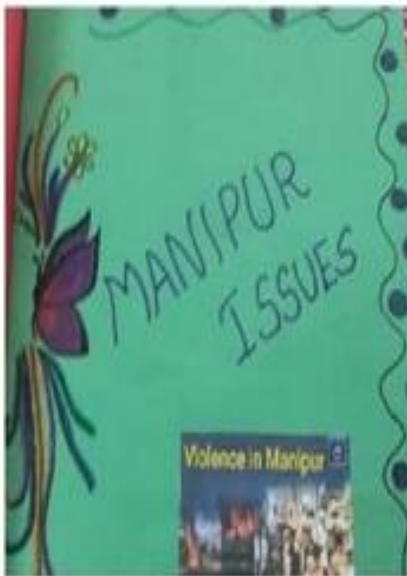
Department Of Mathematics  
Poster Presentation  
19.09.2023 14:46  
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Altitude: -32m  
50324805, Maly Cross College Rd, Thiruvananthapuram



NAAC V Cycle Self Study Report (SSR)



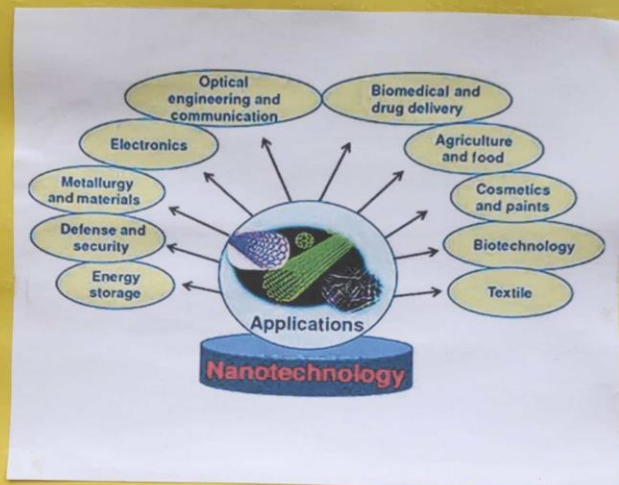
AGRICULTURAL DISASTER



M. R. Astleir Geo  
I. M. & Chemistry

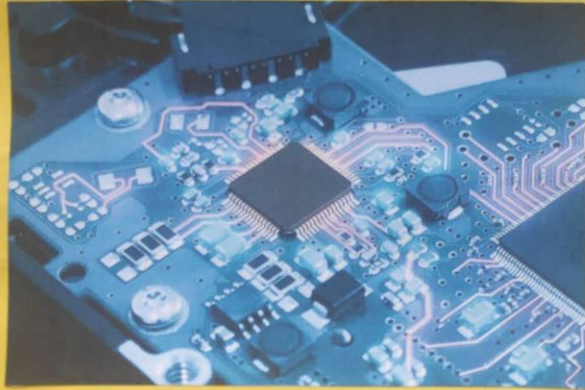
# RECENT APPLICATION OF NANO TECHNOLOGY

## Applications

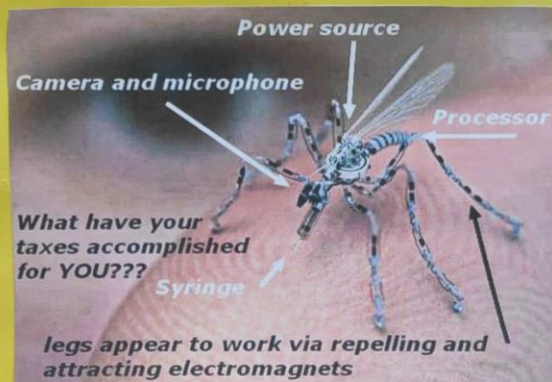




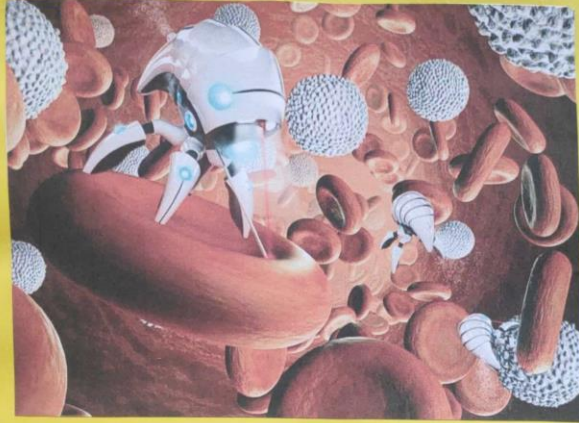
# Nano Technology in Electronics



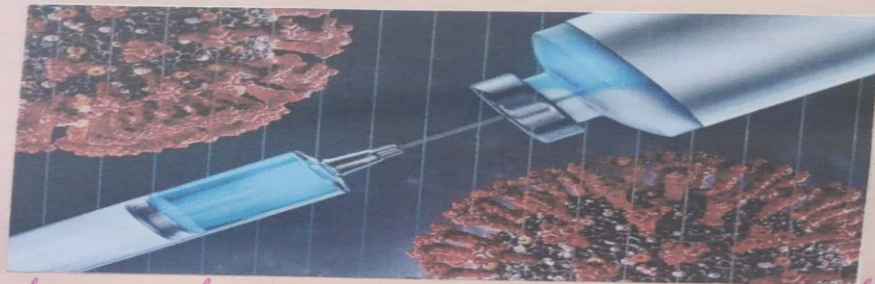
# Nanotechnology in Military



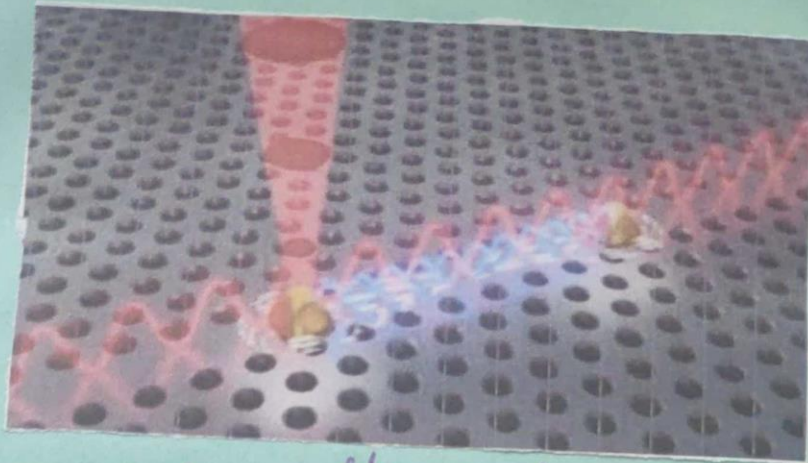
# Nanotechnology in - biotechnology



## NANO TECHNOLOGY IN TREATMENT FOR COVID-19



Nanotechnology and COVID-19 diagnosis and treatment. The development of nano-biosensors and nanoparticle based vaccines and medicines has opened a new path toward better management of the coronavirus disease 2019, pandemic. Scientists have reviewed recent advancements in nanotechnology - based diagnostic and therapeutic interventions against human corona viruses.



New nanoscience could present a massive leap for photonic quantum computing.

Institute of Bioengineering and Nanotechnology  
IBN  
Innovating for Tomorrow

**nanotoday**  
Impact Factor 17.689

**Nano Today's 2013 Impact Factor Increases from 15.355 to 17.689**  
Singapore-Based Journal Ranks Second Among 69 Nanoscience and Nanotechnology Journals Globally

**SINGAPORE, June 28, 2013** — For three years in a row, Singapore-based Nano Today has been ranked the second most influential journal internationally in Nanoscience and Nanotechnology, according to the latest Journal Citation Reports® published by Thomson Reuters in June 2013.

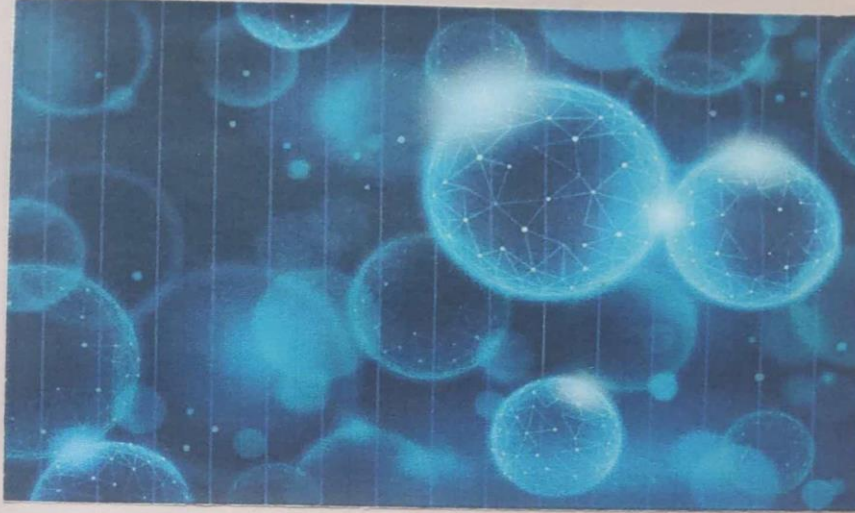
"Nano Today's new impact factor was made possible by the excellent contributions and support from our readers, authors, referees, editorial advisory board, as well as our Managing Editor, Noreena AbuBakar. We are privileged to be working in the exciting, rapidly evolving field of nanotechnology, which has immense potential to benefit society through its wide-ranging impact on diverse areas of our lives. Our journal is committed to publishing the latest and most interesting developments in this multidisciplinary field," shared Professor Jackie Y. Ying, Editor-in-Chief of Nano Today, who is also the Executive Director of the Institute of Bioengineering and Nanotechnology, Singapore, the world's first bioengineering and nanotechnology research institute.

"Nano Today continues to go from strength to strength because of its unwavering commitment to commissioning the best quality papers from the most interesting people working in the field today. I feel immensely proud of the efforts of Jackie and the entire editorial team in producing such an excellent publication, and wish to thank all of our inspiring authors and dedicated reviewers who have again helped deliver this exceptional impact," said Deborah Logan, Publishing Director, Materials Science Journals, Elsevier.

Nano Today is an international, peer-reviewed journal for researchers with interests across the whole spectrum of nanoscience and nanotechnology. Through review articles, rapid communications, news and opinions, it features the latest breakthroughs in nanoscience, and the impacts of nanotechnology on biomedical, electronic, chemical and energy applications.

Since successfully transitioning from a magazine to a journal format in 2009 under the leadership of Professor Ying, Nano Today has recorded major increases in Impact Factor from 5.929 in 2007 to 17.689 in 2012. The high impact factor rating achieved by

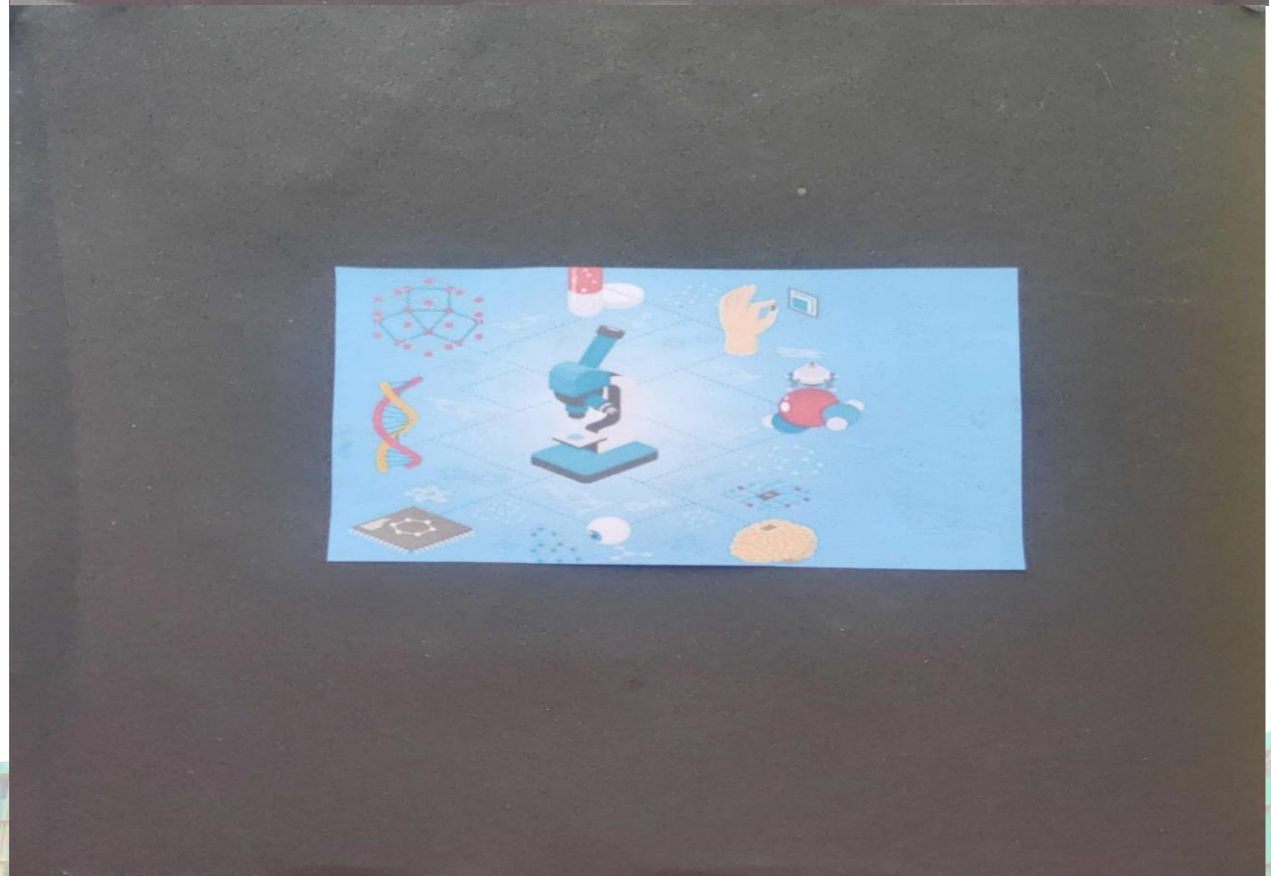
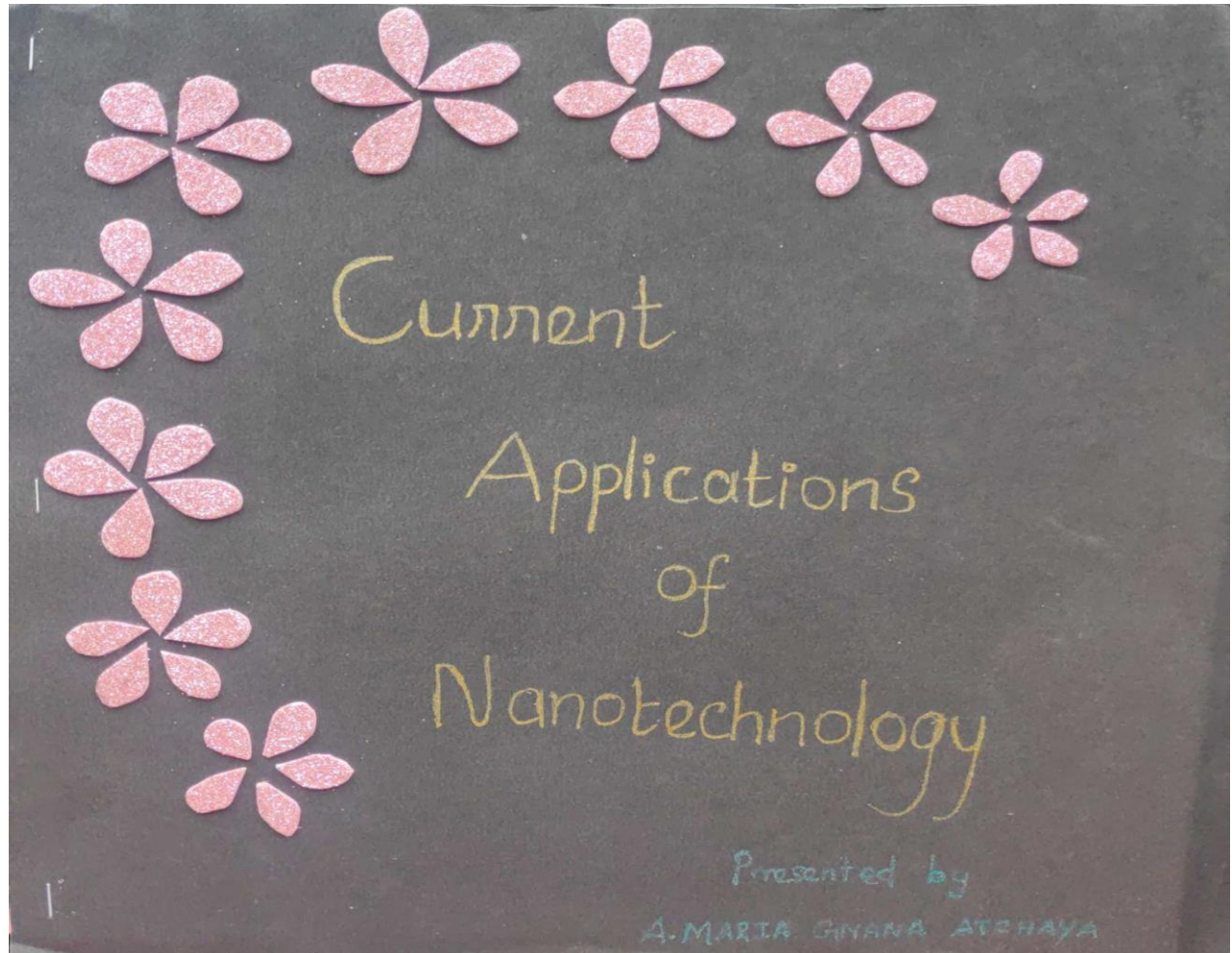
ADVANCED AIR PURIFIERS USING DISINFECTANT NANOMATERIALS



Advanced air purifiers using new disinfectant nanomaterials

Researchers from china have proposed novel nanotechnology materials that successfully eliminate VOCs, along with sulfur and nitrogen oxides, from the air at ambient temperature. Their work is reported as a review article in the MDPI journal Catalysts.

Dust clearance, denitrification and desulfurization are traditional ways of reducing emissions from constant fuel combustion.



## NAAC V Cycle Self Study Report (SSR)



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**Nagercoil, Tamil Nadu, India**  
5C37+RQC, Holy Cross College Rd, Thollavilai, Nagercoil, Tamil Nadu 629002, India  
Lat 8.155063°  
Long 77.414557°  
22/09/23 10:19 AM GMT +05:30



**Nagercoil, Tamil Nadu, India**  
5C37+RQC, Holy Cross College Rd, Thollavilai, Nagercoil, Tamil Nadu 629002, India  
Lat 8.155057°  
Long 77.414598°  
22/09/23 10:13 AM GMT +05:30



# NAAC V Cycle Self Study Report (SSR)

