



Criterion 7- Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.2 The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and non-degradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**



7.1.2. The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and non-degradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Options:

- A. 4 or All of the above
- B. Any 3 of the above
- C. Any 2 of the above
- D. Any 1 of the above
- E. None of the above
- Option A: All of the above

1. Alternate sources of energy and energy conservation measures

D.G.Govt. Arts College (W) uses energy in the following forms: A. From Neyveli Electricity supply corporation Limited, Tamil Nadu. B. Diesel Generator (DG).

Energy sources utilized by all the departments and services of college include electricity. LPG is used in canteen. Major use of energy is at office, classrooms, library, and laboratories for lighting and laboratory work. The data regarding fuel utilization for students, teaching and non-teaching staff of college and visitor are monitored in the study. Number of four wheelers is 10 and they consume 1000 liters of fuel/month whereas two wheelers are 70 and they consume 550 liters of fuel/month. Minimum number (1%) of students only are using two wheeler vehicles and most of the students are using bicycle or public vehicles for the transport. The teaching and non-teaching staff are motivated to take the proper maintenance of the vehicles, so that vehicles consume less quantity of fuel.

Major use of the electricity is at Administrative Building, academic buildings, Library and canteen. Average electricity consumption is 788.63kwh/month. Electrical energy is used for various applications, like: Computers, Lighting, Air

Conditioning, Fans Other Laboratory Equipment, and Printers, Xerox machines, CCTV, UPS, LCD Projector, Pumping motor etc.

Many of the departments and other services are using LED lamps instead of CFL bulbs and tube lights, which is reducing consumption of electricity. Computers and electronic equipment are used in power saving mode. Electrical equipment when not in use, are turned off.

Key Findings and Observations:

Architectural design for the college is based upon use of natural lighting and ventilation, to save extra power for bulbs and fans. Florescent bulbs and CFL bulbs are replaced with LED lamps. Energy is also conserved by using natural light in the classrooms. Normal air conditioning temperature should be kept as high as possible (l.c.24d.cel.). By thumb rule, increase in 3 degrees in indoor air temperatures can save 1% of electricity. The ventilation in area can be provided with installation of natural ventilation. Natural ventilation will also minimize the requirement of exhaust fans.

2. Management of the following types of degradable and non-degradable waste:

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

There are different types of wastes disposed in the college for which there is a proper system functioning. The following wastes are being disposed.

Solid Waste Management:

An important step to reduce the material consumption on campus was taken to ensure that students and faculty segregate wastes by using dustbins, thereby disposing non-decomposable wastes like plastics, glass, metal etc. in blue colour bins and decomposable wastes in green colour bins. These are made possible by advertising on notice boards, displaying slogan boards in the campus. Solid wastes are collected by the municipality of Mayiladuthurai twice a month. Carry bags are prohibited inside the campus. Sanitary napkins are disposed in the incinerators which are fixed in women's rest rooms. This measure helps in maintaining women's health in a hygienic way and is eco-friendly. The withered leaves are collected and dumped in the compost yard to produce organic manure.

Liquid waste Management:

Liquid waste from Chemistry, Bio Chemistry and Zoology lab is allowed to pass through a separate drainage in the college campus. The effluent water from the RO system are made to flow to the plants. The waste water is carried out through the pipeline. This system is made by the Public Welfare Department of the state government.

Biomedical Waste Management:

Bio-degradable waste including waste from main canteen is disposed to pits dug in the rear ground. Bio-medical waste of sanitary pad is incinerated at source itself.

E-Waste Management:

In the college campus e-wastes were collected and stacked in the departments. Letters have been written to the Director of Collegiate Education, Chennai to arrange to collect the e-waste properly. After getting permission from the Director, it will be disposed.

Waste recycling system:

There is no system of Waste recycling in the college. However, there is rain water harvesting system in the college.

Hazardous chemicals and radioactive waste management:

There is no Hazardous chemicals and radioactive waste management system in the college.

3. Water conservation facilities available in the Institution:

The DGGAC has 1 Bore-well for water supply and rain water harvesting. Water from the Bore well is pumped to the over-head tank of 10000 liters capacity. The water from overhead tank is distributed to all taps across the campus. The maintenance of plumbing system is undertaken by PWD. Whenever the problems are identified, immediate actions are taken to restrict wastage of water.

4. Green campus initiatives include:

The institutional initiatives for greening the campus are as follows:

Restricted entry of automobiles

Use of Bicycles/ Battery powered vehicles

Pedestrian Friendly pathways

Ban on use of Plastic

landscaping with trees and plants

1. Restricted entry of automobiles:

The student strength of the college is 2682 and strength of the staff member including teaching and nonteaching is nearly 145. Most of the students use public transport. Instead of bikes and cars, more number of staff members use hired van and car for restricted entry of automobiles.

2. Use of Bicycles:

More number of girls commute to college everyday by bicycle. They feel it more convenient and easy to commute.

3. Pedestrian-friendly roads:

As all the bikes and cars are regulated to be parked in their designated slots, there is no traffic congestion on the roads in the college campus. The pedestrians are enabled to walk freely in the campus.

4. Plastic-free campus:

The College proudly proclaims plastic-free campus. Repeated announcements are made in the College to insist in the minds of the students about the importance of clean campus.

5. Paperless office:

The Principal and IQAC encourage the staff and students to go for e-pay transaction for all remittances of fees. The College office follows the payment and other money transactions (Salary, E.L surrender, Scholarship, and T.A bill) through online only and is marching towards the Digital India status.

6. Green landscaping with trees and plants:

The college is always giving emphasis on eco-friendly environment. The volunteers of NSS (I, II, III and IV units) maintain the campus green and clean by planting new tree saplings every year. The Department of Botany maintains the Herbal garden. Municipality of Mayiladuthurai helps to remove solid waste twice every month in the campus.

5. The Institution has disabled-friendly, barrier free environment:

1. Built environment with ramps for easy access to classrooms.
2. Provision for enquiry and information: Human assistance, reader, scribe.

Policy documents for the Differently Abled:

Procedure for Differently Abled quota:

(Source: Collegiate Education - Guidelines for admission of students to UG/PG courses in Government Colleges of Arts and Science for the academic year 2020-21.)

Out of the quota of 19% (15% SC, 3% SCA and 1% ST) reserved for SC/SCA/ST, 5 out of every 100 seats shall be reserved for Differently Abled persons belonging to SC/SCA and ST.

Out of the quota for 50% (26.5% BC, 3.5% for BCM and 20% MBC/DNC) reserved for Backward Classes, Most Backward Classes and Denotified Communities, 5 out of every 100 vacancies/seats shall be reserved for Differently Abled persons belongs to BC, BCM, MBC and DNC.

Out of the quota 31% intended for open competition 5 out of every 100 seats shall be reserved for Differently Abled in general.

The institute provides barrier-free environment where people with disabilities can move about safely and freely and use the facilities within the built environment. The environment supports the independent functioning of individuals so that they can participate without assistance in everyday activities within the campus.

RAMP

The ramps are carefully designed as per specifications to be used by the differently abled people.

OFFICE & PERSONAL ASSISTANCE: The Office provides all the needed information to the differently-abled and human assistance.



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Environmental consciousness and sustainability and divyangjan friendly initiatives

7.1.2. The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures*
- 2. Management of the various types of degradable and non-degradable waste*
- 3. Water conservation*
- 4. Green campus initiatives*
- 5. Disabled-friendly, barrier free environment*

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Energy Conservation

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S.No	Vehicle	Four wheelers	Two wheelers	Total Litres/month	Total fuel litres/year
1.	No.of Vehicles	10	70	-	-
2.	Average fuel/month	1000	550	1550	18,600

Energy Conservation measures

1. Replacing Fluorescent Tube Lights(FTL) with LED Tube Lights.
2. Retrofitting of existing inefficient and old Fan Regulators with Electronics Regulators.
3. Replacing 300w Mercury Vapor Lamp light with smart 100w LED Street Light.
4. Replacing 18 watt CFL with 9 watt LED Bulbs.
5. All projectors to be kept OFF if there will be no presentation.
6. All computers to have power saving settings to turn off monitors and hard discs.
7. The air conditioning temperature to be set between 24° C to 26° C.
8. The lights in toilet area may be kept OFF during day time.




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MAYILADUTHURAI - 609001

AWARENESS PROGRAMME ON SOLAR EQUIPMENTS

DEPARTMENT OF ZOOLOGY

2017-2018

On 06.10.2017, Mr. J. Tharmaraiselvan, Engineer, Santhose Solar System, Mayiladuthurai delivered a lecture on the topic “Usage of Solar Equipments”.



G. Senthil

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Solid waste management - Pit



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Dharmapuram Gnanambigai Government Arts College For Women, Mayilladurai.

Department of Biochemistry

Labaratory Safety Procedure

1. Liquid chemicals used for regular praticals are to be drained carefully with continuous flow of water into sink .
2. Solid chemicals are to be collected in poly bag separately and tie its mouth and handed over to municipality for further disposal .
3. Cyanide contamination waste and other toxic\poisoure chemicals are treated to ensure it free from cyanide.
4. Hazardous chemicals are to be packed in bag and disposed and digged under the soil.
5. Microbiological nutrient media collected in a poly bag and disposed.
6. Broken glasswares are disposed in a poly bag .

Heomareg
Head
1/2/22
PG & Research Dept. of Biochemistry
D.G. Govt. Arts College for Women
Mayiladuthurai.

Dharmapuram Gnanambigai Govt. Arts College, Mayiladuthurai.

Waste disposal in Chemistry laboratory

1. Eco-friendly chemicals are only used and explosives, toxic, harmful hydrocarbon chemicals are avoided.
2. Solid wastes are disposed as per EHS procedure.
3. Liquid wastes are disposed without contaminating any water bodies.
4. Conventional types of apparatus like kipp's apparatus are replaced to avoid gas pollution.
5. To reduce wastage and large consumption of chemicals, we adopt semi micro analysis and spot test.


04/01/2022

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MAYILDUTHURAI**

Department of Zoology

Laboratory waste disposal SOP (EHS & TNPCB) of the Zoology Laboratory

1. **SOLID ANIMAL WASTE:** All animal waste, including bedding, that is infectious or harmful to animals, humans or the environment are appropriately treated prior to disposal, regardless of the origin of contamination., by following disposal any one of the methods given below.
 - a. Preferred Method: incineration followed by deposition of the residual ash in the Landfill.
 - b. Thermal or chemical disinfection followed by deposition in the Landfill.
2. **LIQUID WASTE** including bulk blood and blood products and cell culture material are disinfected by thermal or chemical treatment then discharged into the Sewer System.
3. **METAL SHARPS:** Discarded sharps are contained, encapsulated and disposed of in a manner that prevents injury to laboratory, custodial and Landfill workers. Needles, blades, etc., are considered BIOHAZARDOUS even if they are sterile, capped and in the original container.
4. **PASTEUR PIPETS AND BROKEN GLASSWARE:**

Placed in a properly labeled, leak proof and puncture resistant container; are disinfected by thermal or chemical treatment or Encapsulate in a properly labeled, rigid, puncture resistant container, and are placed in a dumpster for deposition in the Landfill.
5. **MICROBIOLOGICAL WASTE:**
 - a. **SOLID**-Place in a properly labeled, leak proof container; are disinfected by thermal or chemical treatment; placed in a dumpster for disposal in the Landfill.
 - b. **LIQUID** - Waste are disinfected by thermal or chemical treatment then discharged into the Sewer System.

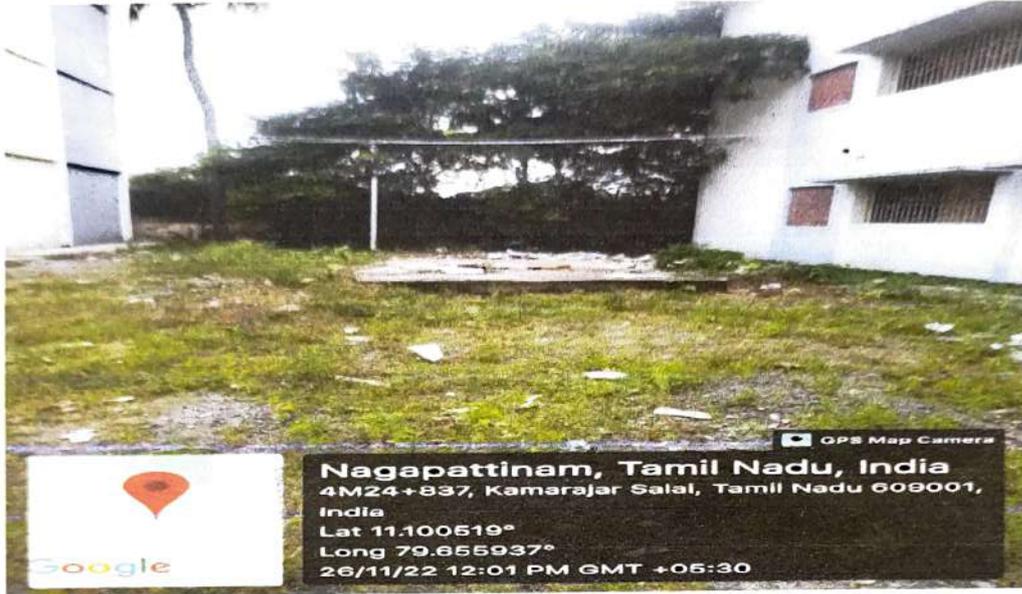
for HOD, signature
C. Tevarelwari
02/12/2022

Dr. C. JEEVA SELVASUNDARI, M.Sc. M.Phil, Ph.D.,
Assistant Professor
Department of Zoology
D. G. Govt. Arts College (w)
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Water Conservation

Rain water harvesting



Bore-well



S. Anitha

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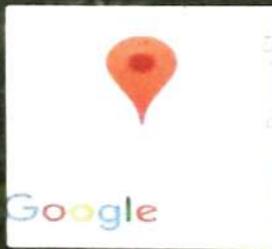


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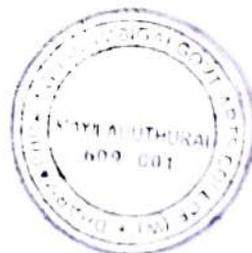
Water Tank



GPS Map Camera



Mayiladuthurai, Tamil Nadu, India
4M24+FGQ, Kamarajar Salai, Mayiladuthurai,
Tamil Nadu 609001, India
Lat 11.100943°
Long 79.65603°
03/11/22 02:10 PM GMT +05:30



S. Jayaraj

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Pedestrian friendly pathways



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CURIE CLUBREPORT
ACADEMIC YEAR 2018-2019

Name of department	CHEMISTRY
Name of event organized	Curie Club-EXHIBITION, 19.02.2019.
Title of the event organized	Avoid Plastic awareness Exhibition
Name of the coordinator of the event	Mrs.R.SUBHA, Head and Assistant Prof. of Chemistry.
Class of the participant	I, II , III Year UG & PG Students
Number of participants (STUDENT & STAFF)	100
Name of Guest with designation	1.Dr.D.Penny Anburaj M.Sc., M.Phil., Ph.D Assistant Professor & Head Department of Physics, D.G.Govt.Arts College (W) Mayiladuthurai 2.Dr.A.Anitha M.L.I.Sc., M.Phil., Ph.D.,PGDLAN Librarian D.G.Govt.Arts College (W) Mayiladuthurai
Objective of the event	❖ To help nad improve our environment and help in reducing packaging waste and adapting waste
Outcome of the event	❖ Recycling plastics is helping to save energy and landfill space. Recycled plastics are used in new building and construction applications every day.
News published (if any)	
Photo gallery	



PHOTO 1
STUDENTS PARTICIPATION IN
EXHIBITION



PHOTO 2
SPEECH BY Dr.D.BENNY ANBURAJ
(HOD of PHYSICS)



PHOTO 3
STUDENTS RECEIVED THE PRIZE FROM Dr.K.Ponni, HEAD AND ASSOCIATE
PROF. IN ENGLISH.



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ENVIRONMENTAL CLUB REPORT

ACADEMIC YEAR 2019-2020

Name of department	Zoology
Name of event organized	Environmental Club Activity, 06.03.2020.
Title of the event organized	Plastic free Campus
Name of the coordinator of the event	Dr. V. Vanitha, Head and Assistant Prof. of Zoology.
Class of the participant	UG Science Students
Number of participants (STUDENT & STAFF)	100
Name of Guest with designation	Dr. V. Vanitha M.Sc., M.Phil., Ph.D., Assistant Professor of Zoology, (HOD) D.G.G.A. College(W) Mayiladuthurai.
Objective of the event	❖ Students get idea about different plastics and their usage, impact and importance in our day today activities.
Outcome of the event	❖ They know about use full plastics and poisonous plastics and they get knowledge about single cycling, double cycling and multi cyclic plastics.
News published (if any)	
Photo gallery	



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PHOTO 1
ACTIVE PARTICIPATION OF
SEMINAR



PHOTO 2
SPEECH BY CHIEF GUEST
Dr.V.Ravi M.Sc.,M.phil., Ph.D.,



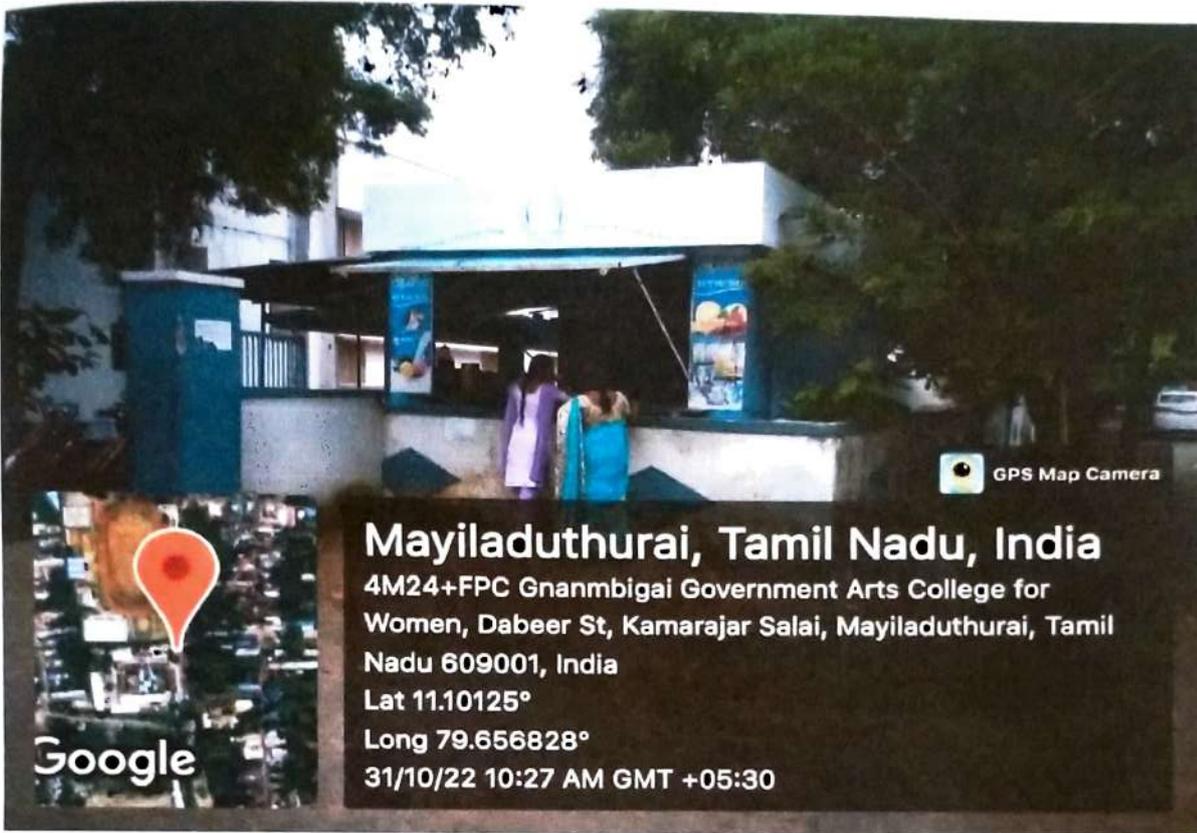
5.2019
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Green campus





GPS Map Camera



Google

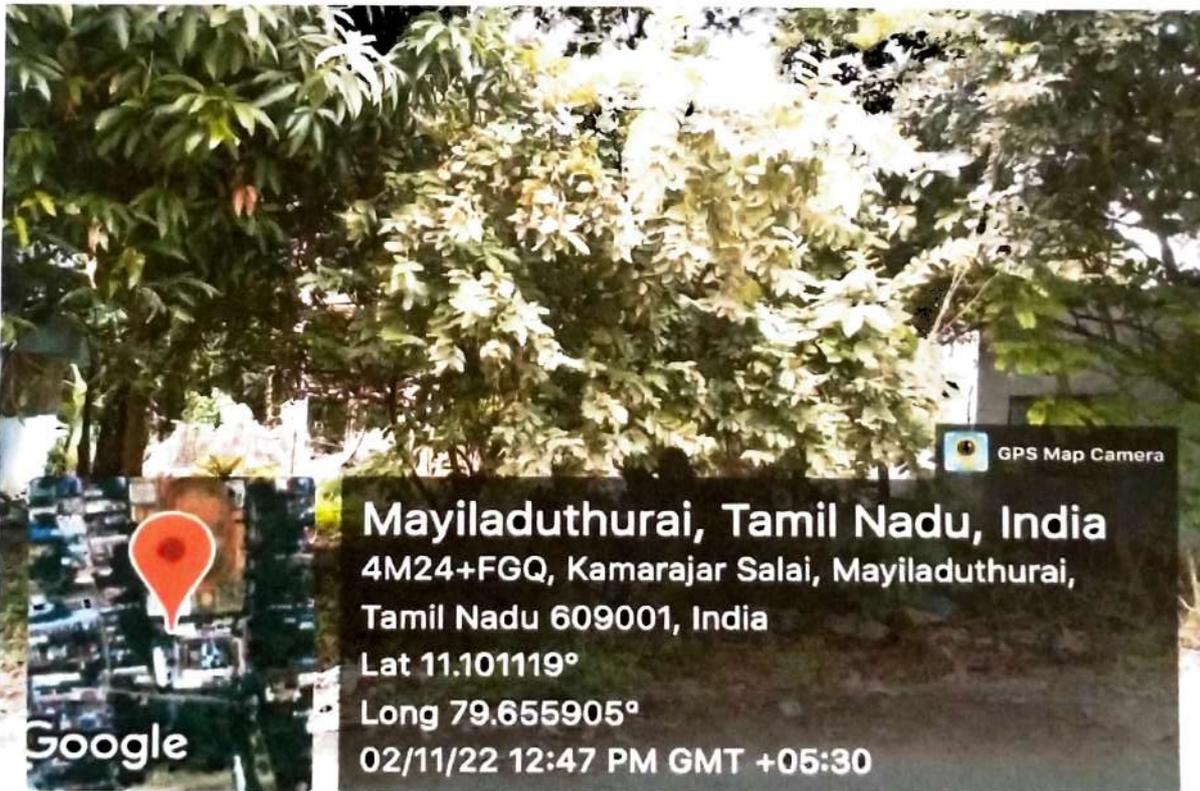
Mayiladuthurai, Tamil Nadu, India

4M24+FPC Gnanambigai Government Arts College for Women, Dabeer St, Kamarajar Salai, Mayiladuthurai, Tamil Nadu 609001, India

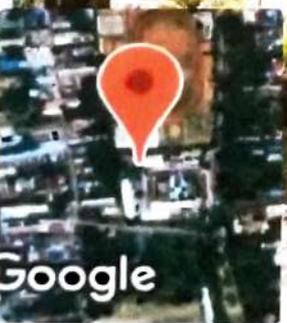
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Long 79.656828°

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GPS Map Camera



Google

Mayiladuthurai, Tamil Nadu, India

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Lat 11.101119°

Long 79.655905°

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Ramp Facilities for differently abled persons in College Premises

In Open Auditorium



Entrance of Tamil Department



Entrance of English Department (Lab)



Entrance of Economics Department



Entrance of Physics Department



Entrance of Zoology Department



Entrance of Computer Science Department



Entrance of Chemistry Department



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GREEN CLUB ACTIVITIES ACADEMIC YEAR 2021 - 2022

NAME OF THE DEPARTMENT	DEPARTMENT OF BOTANY
Name of the event organized	Green club activity
Title of the event organized	Tree saplings planting
Name of the coordinator of the event	Dr. K.SANKAR GANESH
Class of the participant	Students of I. B.Sc- Zoology
Number of participants (STUDENT & STAFF)	51
Name of Guest with designation	Dr. D.ARAVAZHI
Objective of the event	Green the campus
Outcome of the event	Tree saplings are planted in periodical intervals for achieving more trees in the campus.

News published- Nil







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GREEN CLUB ACTIVITIES

ACADEMIC YEAR 2021 - 2022

NAME OF THE DEPARTMENT	DEPARTMENT OF BOTANY
Name of the event organized	Green club activity with Students Exnora and Leo club
Title of the event organized	Awareness rally
Name of the coordinator of the event	DR. K.SANKAR GANESH
Class of the participant	Students of I B.Sc., Zoology, I B.Sc., Chemistry, I B.Sc., Tamil.
Number of participants (STUDENT & STAFF)	205
Name of Guest with designation	DR. D.ARAVAZHI
Objective of the event	Creating awareness to plastic free environment.
Outcome of the event	Students rally distributed the pamphlets to peoples for creating awareness about plastic free environment.
News published- Nil	



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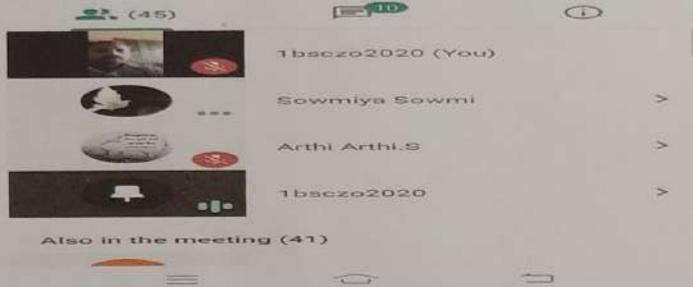
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GREEN CLUB & LEO CLUB REPORT

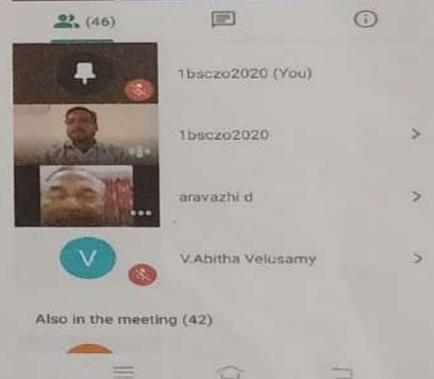
ACADEMIC YEAR 2020-2021

Name of department	Department of BOTANY
Name of event organized	GREEN CLUB & LEO CLUB REPORT, (Date:16.02.2021, 24.02.2021, 26.02.2021 & 27.02.2021)
Title of the event organized	<ol style="list-style-type: none">1. Drawing competition - Title:VettrumayilOtrumai.2. Special lecture- Title:"Medicinal plants and its conservation strategies"3. Essay competition- Title:" KalviPayanpattil Oodagathin Pangalippu."4. Social awareness program- To visit Anbagam special child school,Mayiladuthurai.
Name of the coordinator of the event	Dr.M.RAJESH, Head and Assistant Prof. of Botany
Class of the participant	UG
Number of participants (STUDENT & STAFF)	185
Name of Guest with designation	Dr. K.Sankar Ganesh Assistant professor of Botany DGGAC(W), Mayiladuthurai
Objective of the event	<ul style="list-style-type: none">❖ To encourage the students for enrich their drawing skills❖ To learn the importance of medicinal plants

	<ul style="list-style-type: none"> ❖ To encourage the students for enrich their writing skills ❖ To involve the students for social services to handicapped students
Outcome of the event	<ul style="list-style-type: none"> ❖ To achieve their goals of getting the prizes from competition ❖ To aware about the conservation of medicinal plants ❖ To achieve their goals of getting the prizes from competition ❖ To gather knowledge to handle handicapped students
News published (if any)	
Photo gallery	



Dr. K.SANKAR GANESH
(Assistant professor of
Botany)



S. Sankar Ganesh
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