

7.1.3 – 5. ENVIRONMENTAL PROMOTION AND SUSTAINABILITY ACTIVITIES

Sustainability effort helps to protect the environment and leaves a more promising future for the next generations. The environmental promotion and sustainability is enhanced by conducting various programme to enable the students get involved and inspired to take part such activities that aim at sustainable environment. It includes varying green ideas and innovative projects to limit the environmental impact.

Nowadays trees are cut down everywhere to improve the lifestyle of people ; agricultural lands are transforming into Apartments and plots; usage of vehicles is increased ; use of chemical fertilizers and exploitation of resources are increased – these have polluted the environment and have given an alarm about the increased emission of green house gases. The Government, NGOs and Private Organization are involved in promoting various schemes and insisting the educational institutions to provide awareness programme to mitigate the effect of pollution. The subjects related to environmental studies are also included in the curriculum.

The following measures have been taken-up by the institution to promote the clean and healthy environment in the campus.

1. The students are instructed to come by cycle instead of using bikes/motor vehicle, weekly twice, to reduce the vehicle emission.

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2. The staff members are encouraged to use bikes instead of cars. This has become one of the sustainable practices followed by our college.
3. The dust-bins are labeled with degradable and non-degradable signage.
4. Students are allowed to dump only the recyclable material and instructed to avoid plastics and other wastes. Thus, they are instructed to maintain plastic free campus.
5. The Staff and students are motivated to use reusable bottles and plates to enjoy a sustainable lifestyle.
6. Wastes are periodically removed to avoid the over-flow of waste in the dust bins.
7. The office bearers of the student's union serve as the volunteers to instruct the students to keep their class rooms and campus clean.
8. Students are trained and practiced to grow organic garden. More particularly, botany students are enthusiastically involved in maintaining the garden in the college campus and also near the department to promote the healthy environment.
9. Both day scholars and hostellers are instructed to avoid food wastes which create bad and filthy smell.
10. The awareness and interests are inculcated in the minds of our students with the help of various competitions and awareness programmes to promote the sustainable environment.

The various environmental awareness programmes are organized by the **NSS and Eco club** in our college to promote the sustainable and friendly environment.

Best Practices of Zoology Department

1. **Seed Balls distribution:** The zoology department students are involved in preparing seed balls and distributing them to the farmers in the nearby villages. The awareness was created among the farmers about the effect of environmental pollution due to urbanization in the global scenario. Motivation and self interest was built in them to plant more trees.
2. **Vermiculture and Azolla cultivation:** The vermiculture is practiced among students to motivate them to use organic manure for producing organic garden and minimize the usage of chemical fertilizer, pesticides and weedicides. In front of the department of Zoology, vermiculture and azolla cultivation has been maintained by the students.

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3. **Fish culture:** To make a sustainable environment, fish culture has also been practiced among students. Gambusia and Tilapia fish culturing also take place in front of the Zoology laboratory.
4. **Bird Watcher Club:** The college campus was surveyed by the students to find out the biodiversity of various species in the college campus. The green campus initiatives with plastic free campus provide shelter to various species of birds. The students are taught to study the foraging behaviour of Birds by keeping the container with different variety of foods including cereals and pulses.

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REPORT ON THE ACTIVITIES OF BIRD WATCHER CLUB

**CAMPUS: M.V MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN,
DINDIGUL.TAMILNADU AND BOTANICAL GARDEN.**

SURVEY PERIOD: November 2021–march 2022

No of birds identified: 30

An awareness programme on Bird's Conservation was conducted on 17.12.2019 in the Department of Zoology, M. V. Muthiah Govt. Arts College for Women. Prof. Rajesh from Department of Zoology, American College, Madurai chaired the programme and delivered a lecture on 'Avian Conservation' followed by a live demonstration on making an artificial nest with feeding provisions for House Sparrows.

He explained about the present status of Bird's diversity in India and the World. He said that there are various threats affecting the Biodiversity of Birds. Birds serve as an important part in proper functioning of the ecosystem.

Later, the students were taken for the field visit inside the campus and surveyed the campus bird biodiversity and various species of birds were recorded as follows.

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PG II year students surveyed the Campus for counting various number of birds visited							
S.NO	MONTH DATE	NOV	DEC	JAN	FEB	MAR	STUDENTS NAME
1	20.11.2021	Feed trays and water bowls were placed					R. DEEPIKA
2	09.12.2021		Food and water were kept near nesting trees.				J. VAYOLOA CELIN
3	03.01.2022 and 24.02.2022			Recorded and Identified the birds species			K. JAINATH BEGAM
4	25.02.2022				Food and water were kept under the trees		S. JAMUNA
5	16.12.2021 and 03.01.2021		No of nests were recorded				A. VIYAKULA PRIYA
6	11.03.2022					Birds call were noted	K. BHAVANI
7	20.11.2021	Feathers were collected					M. ANNAPOORANI
8	28.02.2022				Aquatic birds were recorded		S. SARANYA
9	22.12.2021		Birds behavior were observed				S. SPANDIYAMMAL
10	24.03.2022					Species identified with binocular	K. ALAMELU


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Biodiversity of various species of birds - Senses recorded

S.No	COMMON NAME	ZOOLOGICAL NAME	LOCAL NAME
1	Asian Flycatcher	<i>Terpsiphone paradise</i>	அரசவால் ஈப்பிடிப்பான்
2	Barn Owl	<i>Tyto alba</i>	கூகை ஆந்தை
3	Baya weever	<i>Ploceus philippinus</i>	தூக்கனாங்குருவி
4	Bee eater	<i>Merops orientalis</i>	கத்தாலன் குருவி
5	Big billed crow	<i>Corvus macrorhynchus</i>	அண்டங்காக்கை
6	Black Drongo	<i>Dicrurus macrocercus</i>	இரட்டைவால் குருவி அல்லது கரிக்குருவி
7	Black Headed Ibis	<i>Threskiornis melanocephalus</i>	வெள்ளை அரிவாள் மூக்கன் அல்லது கருந்தலை அரிவாள் மூக்கன்
8	Blue Rock Pigeon	<i>Columba livia</i>	மாடப் புறா
9	Bulbul	<i>Pycnonotus barbatus</i>	சின்னான்(செங்குதக் கொண்டைக்குருவி)
10	Button quail	<i>Turnix suscitator</i>	பட்டன் காடை
12	Cattle Egret	<i>Bubulcus ibis</i>	உண்ணிக்கொக்கு
13	Common Crane	<i>Grus grus</i>	கொக்கு, நாரை
14	Common Crow	<i>Corvus splendens</i>	காகம், காக்கா, காக்கை
15	Common Cuckoo	<i>Hierococcyx varius</i>	அக்காக்குயில்
16	Common Koel	<i>Eudynamis scolopacea</i>	ஆசியக் குயில்
17	Common Myna	<i>Acridotheres tristis</i>	சாதாரண மைனா
18	Common Snipe	<i>Gallinago gallinago</i>	விசிறிவால் உள்ளான்
19	Common Sandpiper	<i>Actitis hypoleucos</i>	சாதா உள்ளான்
20	Eurasian Coot	<i>Fulica atra</i>	நாமக்கோழி
21	Greater Coucal	<i>Centropus sinensis</i>	செம்போத்து, செம்பகம் அல்லது செங்காகம்
22	Golden Oriole	<i>Oriolus oriolus</i>	மாங்குயில்
23	Horned owl	<i>Bubo virginianus</i>	கொம்பு ஆந்தை
24	Hoopoe	<i>Upupa epops</i>	கொண்டலாத்தி
25	House sparrow	<i>Passer domesticus</i>	சிட்டூக்குருவி
26	Indian Peafowl	<i>Pavo cristatus</i>	இந்திய மயில்
27	Indian robin	<i>Copsychus fulicatus</i>	கருஞ்சிட்டு
28	Jungle Babbler	<i>Turdoides striata</i>	காட்டுச் சிலம்பன்
29	Little Cormorant	<i>Phalacrocorax nigar</i>	சின்ன நீர்க்காகம்
30	Little Egret	<i>Egretta garzetta</i>	சின்ன வெள்ளைக்கொக்கு
31	Rose Ringed Parakeet	<i>Psittacula krameri</i>	செந்தார்ப் பைங்கிளி

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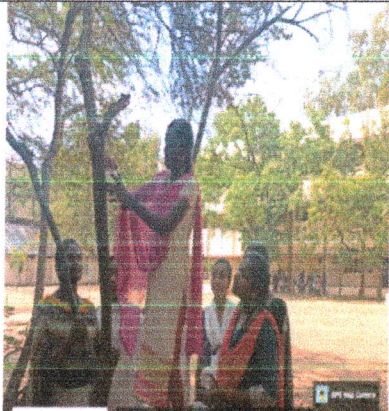
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Senses of Birds taken through Binocular View - 23.03.2022



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Students involved in finding out the Foraging behaviour of Birds



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624001, India
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Long 77.96572°
30/03/23 03:01 PM



Dindigul, Tamil Nadu, India
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624001, India
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Long 77.965724°
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Dindigul, Tamil Nadu, India
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624001, India
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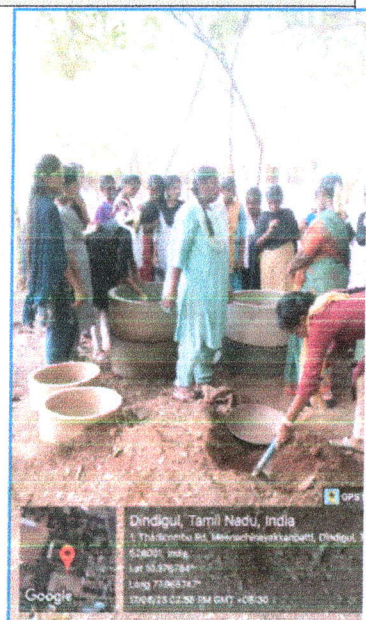
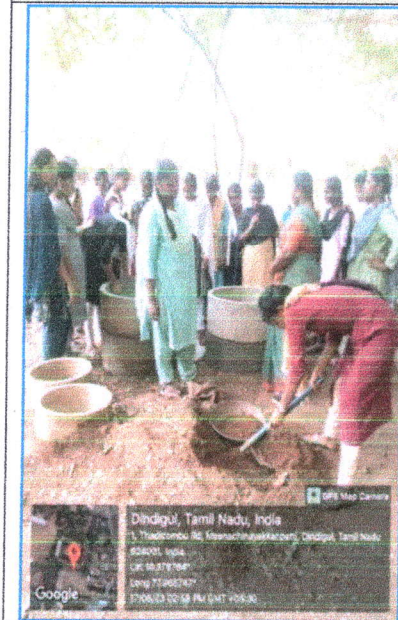
Fish Culture practiced in Zoology Department



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VERMICOMPOST



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SEED BALL DISTRIBUTION TO FARMERS



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BEST PRACTICES OF BOTANY DEPARTMENT

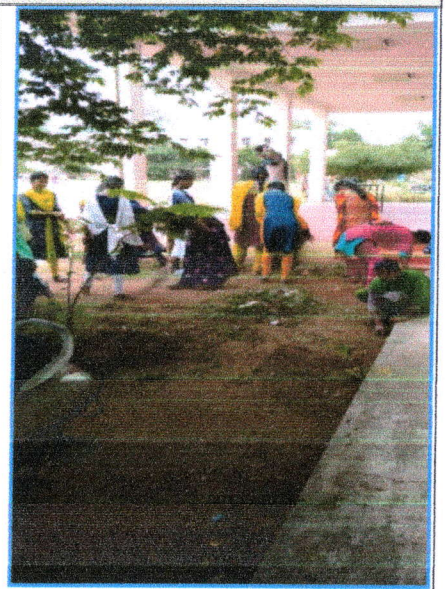
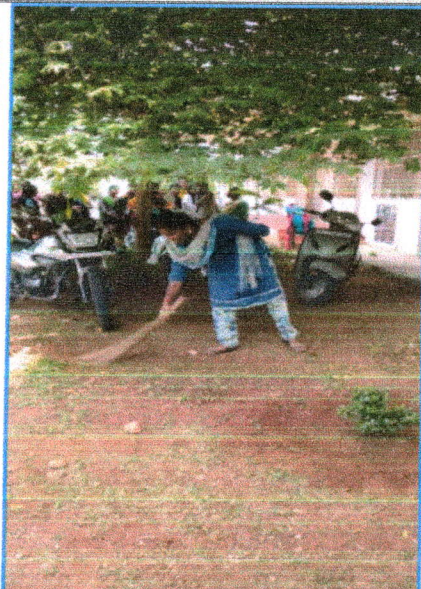
The department of Botany organized various programmes to motivate the students to have environmental concern on reducing the impact of pollution.

The botany department students involved in "plant survey" and listed the number of plants in the botanical garden. The Staff of the Botany Department encouraged the students in cleaning activities and led them to clean the front areas of their department. In the science day celebration, they showed their active interests to collect and display many medicinal plants with their medicinal values. They display the medicinal values and importance of medicinal plants in front of the department every day. Students are trained in mushroom cultivation. Many indoor plants are maintained in front of the department and they are watered regularly.

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BEST PRACTICES OF BOTANY DEPARTMENT-



Cleaning activities in front of their department

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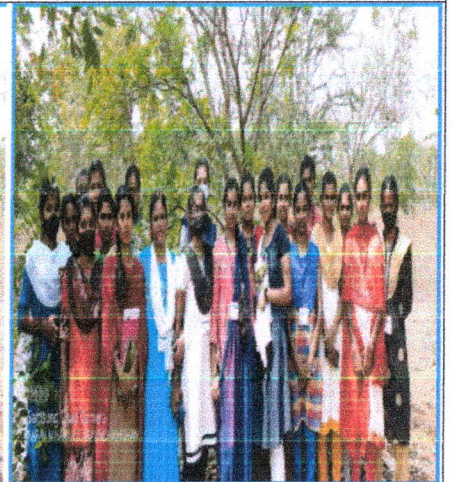
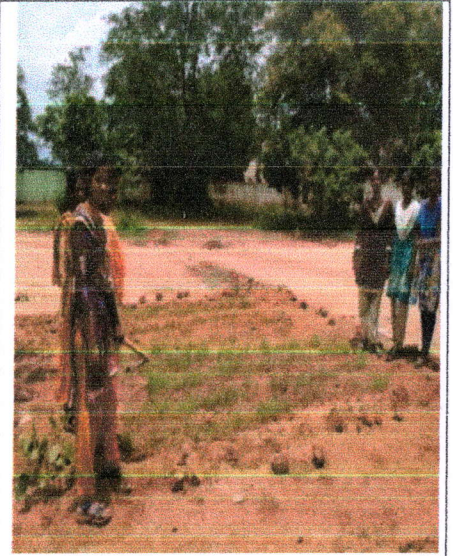
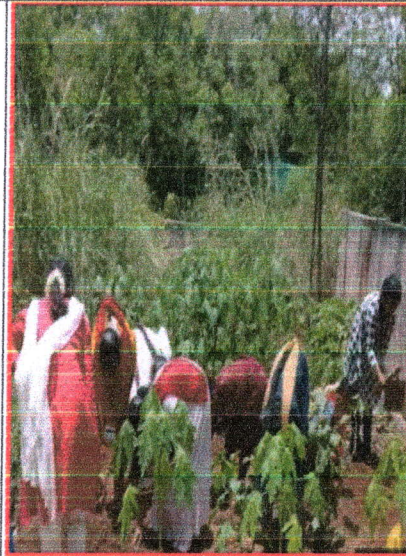
BEST PRACTICES OF BOTANY DEPARTMENT- Mushroom Cultivation



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BEST PRACTICES OF BOTANY DEPARTMENT- Plant survey in the college



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BEST PRACTICES OF BOTANY DEPARTMENT- Maintaining indoor and medicinal plants



Students of Botany Department are involved in the following Best Practices.

- 1. Cleaning activities in front of their department**
- 2. Display of Medicinal plants with its medicinal values (in front of the Department)**
- 3. Mushroom Cultivation**
- 4. Plant survey in the college**
- 5. Maintaining indoor and medicinal plants**

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BEST PRACTICES OF COMPUTER SCIENCE DEPARTMENT

To maintain the sustainable environment, the department of Computer science has been taking the innovative practices through which the students are involved in doing campus cleaning programme and planting trees as a part of their regular academic activities. The department promotes the development of e-content in order to reduce the waste coming out of different kinds of papers, carbon paper, plastic covers, Aluminum foil covers and other papers so as to have a clean environment campus.

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1. **Computer Science Department - Campus Cleaning**



Dindigul, Tamil Nadu, India

9XH7+V85, doctor vijayanand, near mvm hostel, Meenachinayakkanpatti, Dindigul, Tamil Nadu 624001, India

Lat 10.379905°

Long 77.963891°

GPS Map Camera



Dindigul, Tamil Nadu, India

9XJ7+59M, Meenachinayakkanpatti, Dindigul, Tamil Nadu 624001, India

Lat 10.379939°

Long 77.963878°

GPS Map Camera

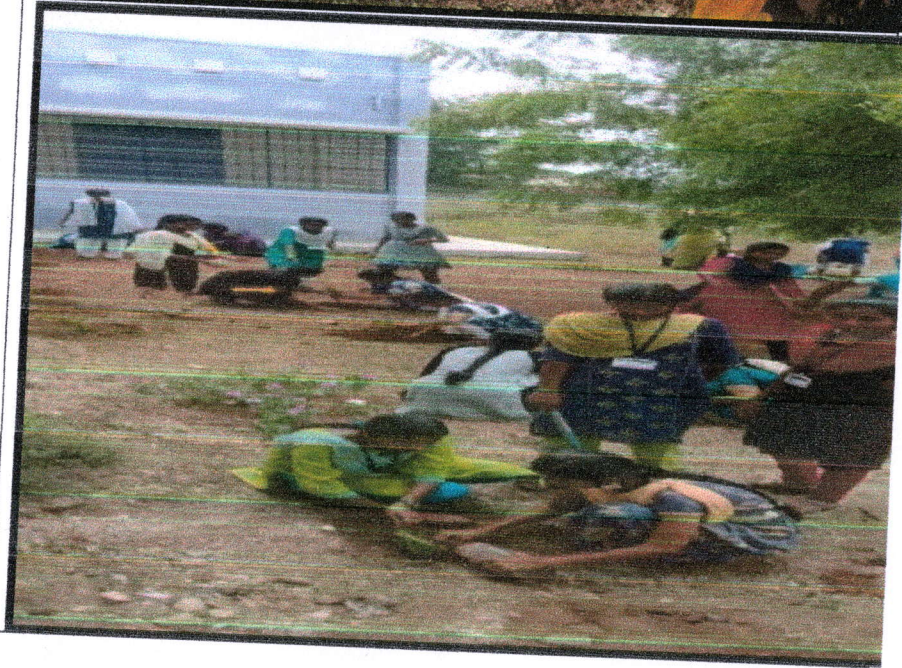
Students are involved in the campus cleaning programme

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Practices of Computer Science Department

2. Environmental Initiatives



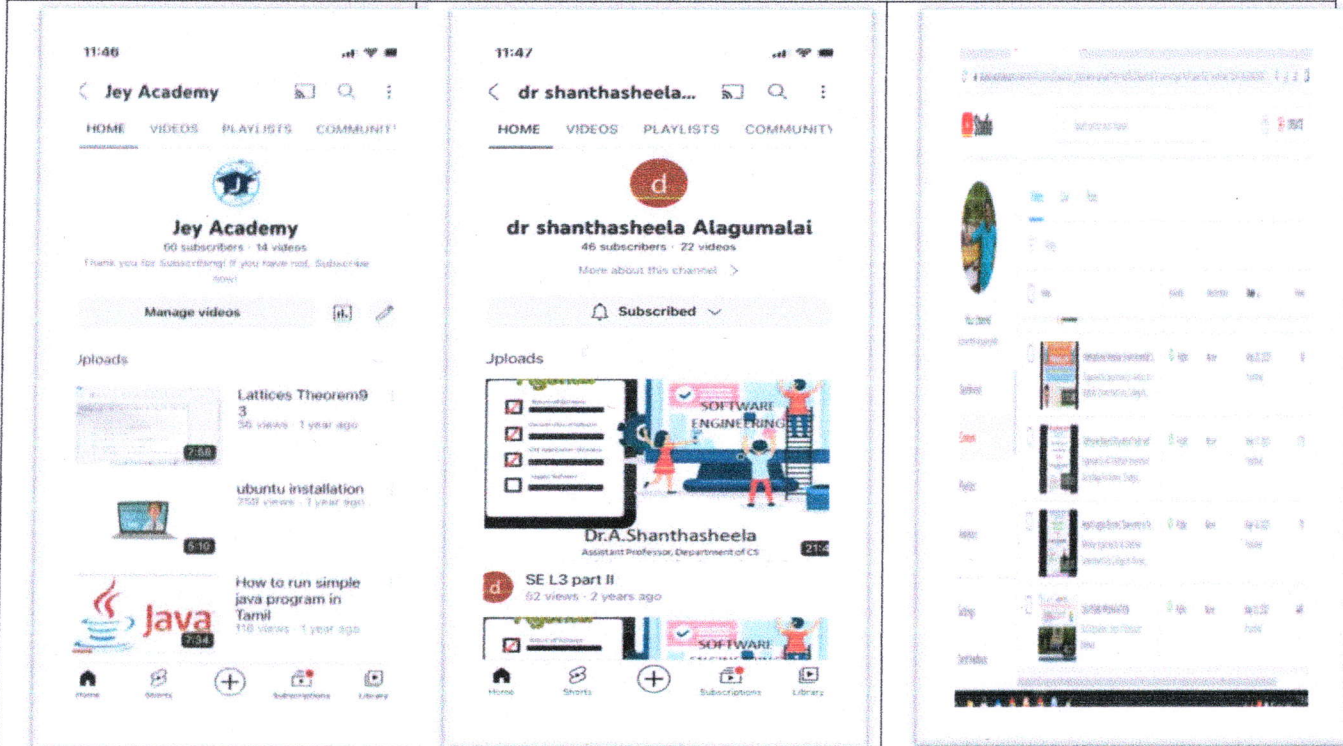
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Plantation along with the regular academic Activities

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3. Promotion of e-Content Development



Faculty members have been involved to convert the traditional subject material to digital material like PPTs and YouTube Videos. These materials are uploaded in our college website.

No. of Online/ Digital Materials Created: 486

No. of YouTube Videos Created : 155

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