Annai Violet Arts & Science College

(Affiliated to the University of Madras, Co-Ed | NAAC Reaccredited)

Best Practice 1

1. Title of the Best Practice: G Suit Workspace Application

Keywords: G Suite, Google Classroom**,** Managing Users, Groups, Authentication and Google Products

2. Objectives of the Practice

The objectives of Gsuite email accounts is simplified from access to the administration console of users account (admin.google.com). It allows to create and continue to use email addresses via the Gmail user interface.

The addresses with extensions such as @gmail.com, @yahoo.com that damage the credibility of emails are replaced by an address surname.**name@violetcollege.co.in** which professionalizes student and staff email and affirms the legitimacy of users activity.

At Annai Violet Arts and Science College, Students and faculty members have the same address extension in Gmail interface.

In addition, to stop hackers from accessing user account by hacking their password, Google has implemented a two-step authentication system (via SMS). This security system will also send you a warning if you attempt to connect or crack a password of an account via new devices or unknown IP's that can be easily traced.

G-Suite allows you to share a document, a spreadsheet between different users of a department and each member of the department can edit or modify their document, with the editor permission and document shared will be the same for everyone.

3. The Context

G-Suite is a comprehensively hosted suite of cloud-driven services that provide productivity, collaboration and communication tools for teaching and learning.

G Suite features powerful and hassle-free email connectivity for faculties, staffs, and students. It is built on top of Google GMail services. It includes shared calendars that enable collaboration among faculties, staffs, and students. Which are extremely useful for students and teachers, from their viewpoint of creating reports, noting down important information and lectures, preparing slide shows on subject topics, creating surveys to seek feedback and much more. It provides 24/7 support, audit reports, eDiscovery search tools, security and administration controls and various other facilities. At Annai Violet Arts and Science College by building educational infrastructures on top of the Google cloud, we are able to empower faculty, staff, and students with all the necessary means in today's world of modern educatio

4. The Practice

Institution-wide email service for Faculties, Students and staff are created with the built in cloud service access, it Includes Unlimited Storage, Shared calendars, Google Docs, Spreadsheets, Presentations, and Forms.

The credibility of emails with surname@violetcollege.co.in. which helps teachers to connect in Google

Classroom with the identity of the unique mail ids as it makes it very easy for both teachers and students during online classes. It connect teachers and students whether they are inside or outside of the college premises. As teachers they can send announcements, create assignments and instantly start class discussions. Also students can share valuable resources, seek clarification on any curriculum topic and interact real-time with instructors.

Faculties prepare notes and documents which are saved online and shared with a limitless number of students, so when faculties create an assignment in Google Classroom they can easily check who has submitted their assignment and who is still working on it, as well as it offers feedback immediately.

The present generation is extremely comfortable using all Google's products. So when these students step into the professional world, they are more likely to prefer continuing on the powerful apps and tools in collaborating and communicating.

5. Evidence of Success

Using G-suite in college had transformed the way facilities are delivered to students and faculties. It initiates the streamlining of administration and technology, which are utilized to deliver those services by centralizing eLearning materials in one cloud-based location, where students and staffs have the capability to store and manage large amounts of data and make It accessible anywhere, to go paperless and stop worrying about printing, handing out, or even losing their learners' work.

Problems Encountered and Resources Required

Teachers and Students when shifting from traditional method to online and their use of teaching and learning by using the application and devices have found it negligible at the initial stage.

Inability to focus on screen with camera on Students and Teachers feel bad some time in online physical problems due to staying hunched in front up on the screen is one of the biggest concerns and disadvantages of online learning

- Poor internet connectivity for students and teachers

- More often, teachers and students have a very basic understanding of

  technology. Some students with no smart Mobile, laptop to stay online.

- Variety of learning methods and styles with technology

  Issues etc. Teacher Training

Objectives:

➢ To promote organic farming among the student community.

➢ To make students aware of Vermicomposting.

➢ To develop, promote and disseminate knowledge about waste management system practically.

➢ To impart training & to develop skills about handling and propagation of earthworms for vermicomposting

➢ To raise self confidence & to boost entrepreneurship skills among students.

➢ To eliminate all the biodegradable wastes in an efficient manner.

Context:

VERMICOMPOSTING - A WASTE MANAGEMENT SYSTEM is a type of composting in which certain species of earthworms and microorganisms are used to enhance the process of organic waste conversion and produce a better end-product. Earthworms feeds the organic waste materials and passes it through their digestive system and gives out in a granular form (cocoons) which is known as vermicompost.

Vermicompost is stable, fine granular organic manure, which enriches soil quality by improving its physicochemical and biological properties. Therefore its applications in sustainable development of agriculture and environmental health are getting better attention

Practice:

A Vermi-composting unit I was installed in the college premises by the Department of Microbiology on 15.02.20. Student volunteers, D. Akash, III B.Sc MB, R. Sidhdhish and C. Vignesh, II B. Sc MB, prepared the Vermicomposting bed with coconut coir, waste leaves and litters, straw and dry cow dung. The African earthworms, *Eudrilus eugeniae,* were added along with curd, jaggery powder and water over the bed. The worms slowly adapt to the new environment and moves down the bed. Adequate shading was done and moistening the bed was carried out every day to prevent the drying of the bed and death of the worms.

Evidence of Success:

Fine granulated Vermicompost was produced in three months. They were used as organic manure for the plants inside the campus, especially for the organic & herbal garden. These programs developed the entrepreneurship skills among the students. Compost from second unit was kept for sale in the college premises on 20.10.21 for the welfare of students and staff.

Problems encountered and resources required:

• As the unit was installed during summer season, constant drying of bed occurred and adequate watering was needed.

• As certain materials were added like jiggery & curd to promote the growth of worms, it also attracted ants which causes harmful effects on earthworm

• Birds pose a major problem for worms.

• Adding too much waste in a short amount of time kills the worms due to rising temperature. Large quantities of waste must be spread out over large areas or as thin layers to maintain the correct temperature.

i.   **PREPARATION OF VERMICOMPOSTING BAG:**

Fig 1, 2 & 3: Cow dung, coconut coir & garden wastes (leaves and litters) were added
Fig 4: Adequate shade was prepared over the bag

ii.   INTRODUCTION OF WORMS:

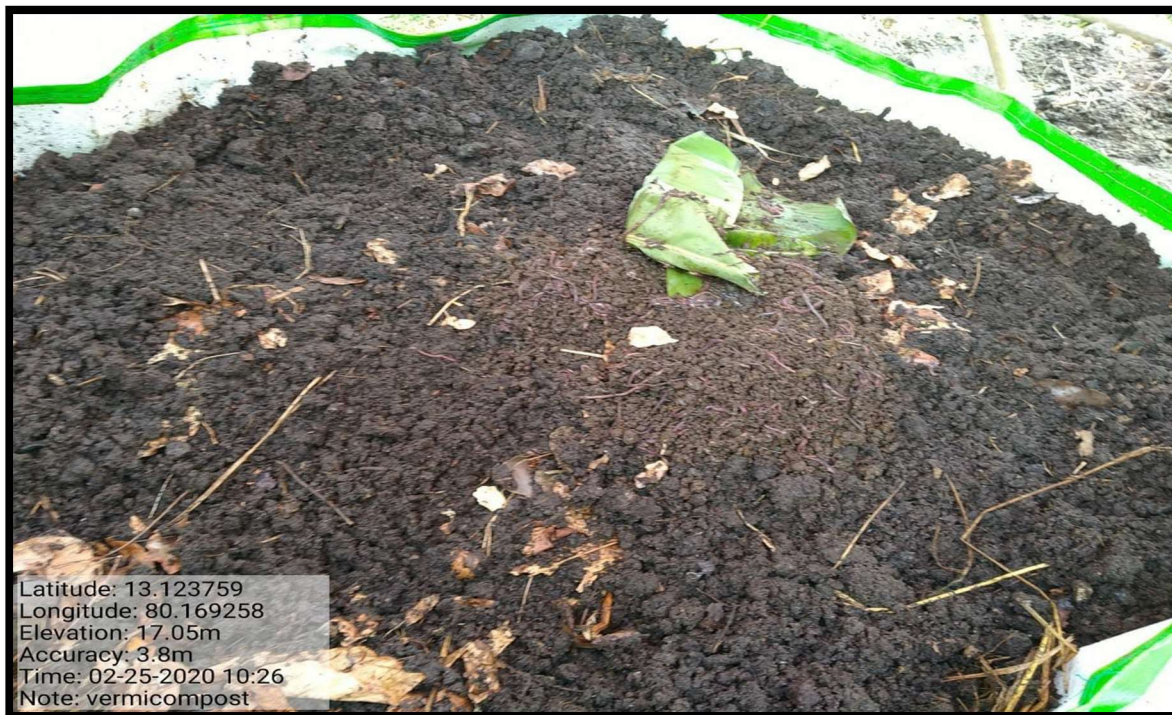Fig 5, 6: Preparation & Introduction of African worms over the bed;

Fig 7: Worms over the surface of the bed

Fig 8: Vermicompost formed in unit I

iii.   INSTALLATION OF UNIT II:

The department of Microbiology installed the second Vermicomposting unit in college premises on 10.2.21. II MB and III MB boys prepared the vermicomposting bag.

Fig 1,2,3 & 4: Preparation of Vermicompost bag

Fig 3, 4: Preparation of suitable environment for worm
Fig 5, 6: Introduction of worms on 16.02.21

Fig 7, 8: Covering the bed with gunny bags and moistening

iv. **VERMICOMPOST SALE**

Fig 9, 10, 11 & 12: Vermicompost sale in the college premises