



DON BOSCO COLLEGE

Athiyaman Bypass Road, Sogathur Post, Dharmapuri 636 809

Phone : 9443604446, 9443604447

E-mail : dbc155@live.in Website : www.dbc.dharmapuri.edu.in



PG DEPARTMENT OF CHEMISTRY

SOLID-LIQUID WASTE MANAGEMENT IN CHEMISTRY LABORATORY

HISTORY OF THE LAB:

The lab was blessed by Rev.Fr. Lourdusamysusai, SDB, on January 2010. The lab is 40 X 35 square feet and the store room 11 X 10 square feet length. Every year the needs of the lab are well planned and purchased. In the year 2009 the department had only first year students of the department of chemistry and allied students from the physics department. We purchased the apparatus and chemicals based on major and allied practical's. The year 2012 onwards the lab apparatus were given to all three year students individually in the beginning of the academic year depending upon their needs for doing practical. In the year 2014, we newly constructed the Organic chemistry lab, Physical chemistry lab and Research cell.

The lab attender is maintaining a printed document for issued apparatus. In the year end, after completion of the university practical exam the students should return the apparatus to the lab in charge. If any apparatus is broken, the lab in charge should note that apparatus. The lab attenders should maintaining the lab, student breakage list, chemical requirements list, daily work done, stock list, gas booking, replacing of apparatus and chemicals, waste solid chemicals and containers.

The students lab attendance, work done for practical regularly registered. The practical in charge should note the attendance and follow the student's observation note book regularly. The model practical examination was conducted at the even semester. Based on these follow up, give the internal marks to the students are awarded.

The purchase of apparatus and chemicals were fully monitored by the lab director and head of the department. The practical in charges should submit the list of requirements for their practical. The lab director sent the list to various scientific companies for quotation. After getting the quotation, the lab attenders should prepare the comparative statement. Then Quality products are purchased by order.

Chemical waste can be classified to one (or) more of the following ,

1. Corrosive3. Reactive
2. Flammable4. Toxic etc.

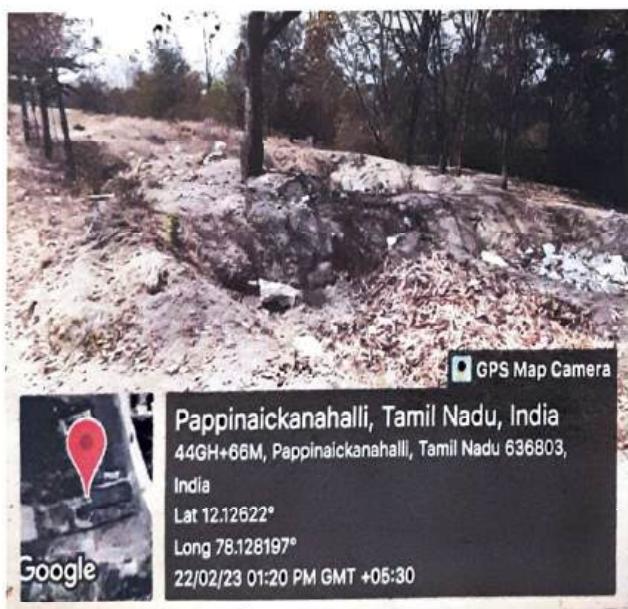
S. Mani.



Our chemistry laboratory only there are three types of waste produced in the chemistry laboratory .

1. Solids
2. Liquids
3. Container

The separated store room maintain the storage of waste solid, liquid chemicals and waste container. In the chemistry laboratory reduce waste production at the source example conducting smaller scale experiments. The waste liquids are pour into the sink all the students during practical time, liquids are collect in waste liquid collecting tank. We are use only minimum liquid wastage. So easily that liquid wastage are evaporated. The solid wastage are collect from students after the practical's and dispose in the cavity of the nearby the chemistry lab, once a month the cavity of the solid wastage was close using soil. Next waste container was using some other purpose example after the practical's was over the extra chemicals are store in that container. No more extra recycling process don't carried out in the chemistry lab.



S. Mani
LAB DIRECTOR

N. Raja
HOD

K. K. S. K. S.
PRINCIPAL
Rev.Dr.J.ANGELO, MBA., PGDPMIR., Ph.D.,
PRINCIPAL
DON BOSCO COLLEGE,
DHARMAPURI-636 809.



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PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE

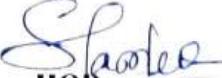
E-WASTE MANAGEMENT IN COMPUTER LAB

Used and condemned electrical and electronic equipment and parts are becoming major threats to the whole world. Its toxic emission mixed with virgin soil and air cause harmful effects to the entire biotic either directly or indirectly. In the college campus e-wastes were collected and stacked in a separate room.




LAB DIRECTOR




HOD





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SANITARY PAD DESTROYER MACHINE



This machine works with smart intelligence and consumes less amount of electricity to work, automatically cut-off power once the work is said to be done.

To solve the problem of sanitary napkin disposal by installing incinerators this shall reduce spread of infection. Due to unhygienic of sanitary napkin reduce environmental pollution.

Advantages:

- Stress free for working women.
- Reduces plastic bag usage.
- Avoid blockages in toilet plumbing.
- Avoid waterway pollution.
- Avoid drainage line chock-ups.
- Saving water and healthy environment.
- Environment Friendly.
- Reduce absence of school and college students.

