Dnyandeep Shikshan Prasarak Mandal, Chandrapur

Dr. Khatri Mahavidyalaya Tukum, Chandrapur

BEST PRACTICES

ACADEMIC YEAR

2022-2023

Co-ordinator

Dr. M.G. Thakre

Principal

Dr. J.M. Kakde

PREFACE

Best practices added values to human life and support main goal of an institution. It can change the life of whole institution as well as individual stakeholders. These practices are able to instill the scientific approach to issues or problems of the society. The quality becomes an imperative in best practice; it should impart quality in its outcome and must be beneficial for stakeholders. The college has adopted environment friendly policies on plantation and waste management.

Nature provides free services to all. In recent years, environmental problems have increased by human activities and development of science and technology and planet earth is facing tremendous pressure from increases in population. Humans have contributed global warming which has led to catastrophic climate change in many parts of the world. People have to work for benefit of the planet and reduce emission in appropriate way. Colleges have a responsibility to install green lifestyle among the young and high profile students by undertaking green moves which can help to lower the global temperature.

In the present write up “best practices” report, outline existing scenario of campus. A brief content of this report would help everyone to think about preserving resources, show willingness to learn their importance, adopt steps to minimize resource use and set an example for others to follow the path of best practices to achieve the goal of sustainable development.

We express our deep sense of gratitude to the Chairman of the of Dnyandeep Shikshan Prasarak Mandal, Dr. N. H. Khatri and management body of DSPM and Dr. J.M. Kakde, Principal of the college for their support in preparation of the report.

It is our pleasure to acknowledge Dr. N.R. Dahegaonkar, IQAC coordinator for his support and encouragement during the preparation of report. We are grateful to Dr. Sushil B. Kapoor sir, for his unwavering support.

Dnyandeep Shikshan Prasarak mandals

Dr. Khatri Mahavidyalaya, Tukum, Chandrapur

Late. Maladevi Nandkishor Khatri Library

Innovative Ideas in Library

Title of the Practice: Innovative Ideas in Library

1) Objectives of the Practice: The objective is to promote reading, knowledge, and education through book donations, which can help communities, instructors, and students alike.

2) Context

Book donations are crucial to the development of knowledge-based communities. Books are vital to all educational, informational, creative, and developmental processes. In addition, they are a vital instrument for fostering social and intercultural discussion as well as democracy. Books offer knowledge on a variety of topics, including industry, sports, education, economics, politics, and important local, national, and worldwide studies. The joy of reading, which fascinates millions of people of all ages every day, can only be found in books.

3) The Practice

On the occasion of the birthday, it was decided unanimously to donate the books to the library under the chairmanship of honorable principal of the college. The choice of books to donate to the library is entirely voluntary for staff members, and anyone celebrating a birthday is welcome to do so. Books on competitive examination, science, technology, history, economics, and general topics are donated by teachers and supporting staff. This exercise helps students because it provides them with a variety of books for reading and preparation. This activity is distinct from the regular purchase of books for the library. Students are informed about books beyond their curriculum. They read books regularly and understand the essence of reading. The teacher always guides them in their selection of books.

4) Evidence of Success

Student feedback as an effective tool for achieving the success in this activity

Session: 2021-2022

Sr. No.	No. of the Staff	No. of Books Donated	Price
01	33	98	22487

Session: 2022-2023

Sr. No.	No. of the Staff	No. of Books Donated	Price
01	33	128	38458

Principal Dr. J. M. Kakde Giving Well-wishes to Secretary of DSPM Dr. S. B. Kapoor

Secretary of DSPM Dr. S. B. Kapoor gifted books to the library on the occasion of his birthday

Principal Dr. J. M. Kakde giving well-wishes to Mr. Pramod Raut

Principal Dr. J. M. Kakde giving Well-wishes to Treasurer of DSPM Sau. Anushree Parashar

डॉ. खत्री महाविद्यालय तुकूम – चंद्रपूर

ग्रंथालय विभाग

शिक्षक व शिक्षकेत्तर कर्मचारी यांनी जन्मदिनानिमित्य ग्रंथालयाला दिलेली सप्रेम भेट पुस्तके.

सत्र : २०२१ – २०२२

अ. क.	पुस्तके सप्रेम भेट देणाऱ्याचे नाव	पुस्तकाची संख्या	एकूण किंमत
१)	श्री. तुषार रेलकूंटवार	०१	१२५.००
२)	प्रा. रवि वाळके सर	०२	३३५.००
३)	डॉ. दहेगावकर सर	०१	१९४.००
४)	प्रा. सादलवार मॅडम	०२	३११.००
५)	प्रा. डोंगरवार सर	०२	१२२५.००
६)	डॉ. आर. यु. मुरमाडे सर	०१	४००.००
७)	प्रा. एम. टी गुरनूले सर	०४	१०६३.००
८)	श्री. मनिष केने	०१	२५२.००
९)	डॉ. जोत्सना मोहितकर मॅडम	०१	३००.००
१०)	हर्ष खोब्रागडे	०१	२५०.००
११)	प्रा. मनोज निरंजने	०१	२५०.००
१२)	डॉ. अशोकराव माथनकर सर	०२	५५०.००
१३)	डॉ. वंदना वैद्य मॅडम	०१	३००.००
१४)	डॉ. टि. डी कोसे सर	०५	२००.००
१५)	डॉ. माधवी पॉल मॅडम	०२	५००.००
१६)	प्रा. एल. एस नुत्ल्यलवार सर	०२	६३०.००
१७)	प्रा. आर. के. राजुरकर सर	०४	६७५.००
१८)	प्रा. संजय लेनगुरे सर	०५	१३१०.००
१९)	डॉ. तेलखडे सर	०४	२२४०.००
२०)	श्री. केशवराव गौरकार	०४	१२००.००
२१)	प्रा. करुना खोब्रागडे	०२	५२५.००
२२)	डॉ.पी. आर मोहरकर	०२	९७५.००
२३)	प्रा. दिलीप बावणे	०३	६०५.००
२४)	प्रा. सुरेश लोनबले	०४	१३८.००
२५)	डॉ. शरयु कटकमवार मॅडम	१३	२५२५.००
२६)	प्रा. उषा चांभारे मॅडम	०२	४३०.००
२७)	डॉ. राविंद्र पाटिल	०३	१००.००
२८)	प्रमोद राऊत अधिक्षक	०४	३७०.००
२९)	डॉ. सपाट सर	०८	१६९५.००
३०)	प्रा. अनुश्री सहगल मॅडम	०४	१६८०.००
३१)	श्री. डी. डी. खोब्रागडे	०२	४५०.००
३२)	प्रा. आशिष चहारे सर	०२	३५०.००
३३)	प्रा. सुर्वणा राऊत मॅडम	०३	३४५.००
		एकूण :–९८	एकूण किंमत :२२४८७

डॉ. खत्री महाविद्यालय तुकूम – चंद्रपूर

ग्रंथालय विभाग

शिक्षक व शिक्षकेत्तर कर्मचारी यांना जन्मदिनानिमित्य ग्रंथालयाला दिलेली सप्रेम भेट पुस्तके.

सत्र : २०२२ – २०२३

अ. क्र.	पुस्तके सप्रेम भेट देणाऱ्याचे नाव	पुस्तकाची संख्या	एकूण किंमत
१)	श्री. पिंपळकर	०१	३००.००
२)	श्री. लोहट	०१	२४०.००
३)	श्री. प्रा. पाटिल सर	०१	६५०.००
४)	प्राचार्य डॉ. जे. एम. काकडे सर	०२	७६०.००
५)	डॉ. जीभकाटे सर	०५	११२५.००
६)	डॉ. वराडे सर	०३	३०००.००
७)	प्रा. गायकवाड सर	०५	६१८.००
८)	डॉ. एस. बी. कपूर	०५	३६३९.००
९)	डॉ. टि. एम. शेख सर	०६	१८७४.००
१०)	प्रा. एस. पी. पांडव	०२	४२५.००
११)	प्रा. बैजयंती तडफदार	०२	३४१.००
१२)	प्रा. सुप्रिया सादलवार	०१	३७५.००
१३)	डॉ. रवि वाळके सर	०३	१८५९.००
१४)	डॉ. एन. आर. दहेगावकर सर	०२	३७४०.००
१५)	प्रा. कु. रोहणकर	०२	३३८.००
१६)	प्रा. डोंगरवार सर	०७	१०६८.००
१७)	डॉ. गुडधे सर	०४	१२४७.००
१८)	डॉ. आर. यु. मुरमाडे सर	०५	१९७५.००
१९)	प्रा. एम. टी. गुरनुले सर	०५	६९५.००
२०)	डॉ. अशोक माथनकर सर	०१	३००.००
२१)	प्रा. मनोज निरंजने सर	०५	८३५.००
२२)	डॉ. पाल मॅडम	०५	१४४०.००
२३)	डॉ. वैद्य मॅडम	०४	१२५५.००
२४)	श्री. दिपक आकुलवार	०१	१५०.००
२५)	प्रा. लेनगुरे सर	०४	८२५.००
२६)	प्रा. करुणा खोब्रागडे मॅडम	०३	९०५.००
२७)	श्री. केशवराव गौरकर	०३	११७५.००
२८)	डॉ. महेन्द्र ठाकरे	०२	६००.००
२९)	प्रा. एम. टी. गुरनूले	०९	१६००.००
३०)	डॉ. पी. आर. मोहरकर	०३	६४०.००
३१)	प्रा. दिलिप बावणे	०१	१२५.००
३२)	प्रा. सुरेश लोनबले	०३	२७६.००
३३)	प्रा. डॉ. शरयु कटकमवार	१७	४०६३.००
		एकूण :– १२८	एकूण किंमत: ३८४५८


Objective General English
Selected Topics in INORGANIC CHEMISTRY
॥ श्रीमद्भगवद्गीता ॥
MHT CET PREP GUIDE
INDIAN ECONOMY
DICTIONARY
Oxford
Critical Theory
श्रीमद्भगवद्गीता
English Literature
BIOPHYSICAL CHEMISTRY
मनीषा
STANDARD DICTIONARY
SOLID STATE PHYSICS

Best Practice1

1. Title of the Practice
Estimation of biomass of trees

The most often produced greenhouse gas is carbon dioxide. The technique of removing and storing carbon dioxide from the atmosphere is known as carbon sequestration. It is one way to lessen atmospheric carbon dioxide in an effort to slow down the rate of climate change.

2.Objectives of the Practice:

Estimation of biomass of trees is a tool for getting information of growth containedwithin a single tree, a species, or a population. Based on the weight of the trees, thepotential of trees to capture carbon dioxide can be assessed effectively. Estimationof biomass of trees is a routine practice of the college.

3.Context:

Planting trees is important because to clean the air we breathe. Trees add beauty to their surroundings by greening and cooling the campus area. Measurement of the tree trunk is the best practice to calculate weight, which further can be useful to calculate the carbon dioxide capturing capacity of the tree.

4.The practice:

In the college grounds, Ms. Mamta Rahele, Ms. Pratiksha Bhusari, and Mr. Aditya Rathod of M.Sc. Semester IV conducted the activity of measuring tree basal area. The amount is then translated to tonnes of tree biomass. Later, the trees' overall capacity to store carbon was determined. This endeavour is a significant step towards the campus's green audit

Estimation of biomass of trees is a unique practice for carbon sequestration

a) Meeting of staff is the first step to take stock of trees on the campus

b) Identification of trees with a girth more than 30 cm

c) Counting all the trees at breast height

d) Summarising all the data for final conclusion

5.Evidence of Success:

Such practice is significant for research in forestry for staff and students. Peopleoutside the campus can also be benefited from the aesthetics of the campus and fresh surrounding

6.Problem encountered:

The unevenness of the tree trunk creates problems during the measurement

7.Resources required:

Basic accessories such as measuring tape and calculators are required for thecollection and analysis of the data.


GPS Map Camera
Chandrapur, Maharashtra, India
X8M2+VC4, DOC Rd, Biyani Nagar, Tukum,
Chandrapur, Maharashtra 442404, India
Lat 19.984881°
Long 79.301082°
19/01/23 01:10 PM GMT +05:30
Google


GPS Map Camera
Chandrapur, Maharashtra, India
X8M2+VC4, DOC Rd, Biyani Nagar, Tukum,
Chandrapur, Maharashtra 442404, India
Lat 19.984922°
Long 79.30105°
19/01/23 01:13 PM GMT +05:30
Google

Best Practice 2

1. Title of the Practice:

Utilization of AC condensed water in a laboratory

2.Objectives of the Practice:

Energy conservation is important for reducing dependence on conventional energyresources, it also helps save energy costs and energy bills. Overuse of water leadsto scarcity of water and lowers the groundwater table. AC condensed water if properly collected can be utilized for many purposes. Our college has taken initiatives for its use in the laboratory for practical purposes.

3.Context:

The distilled water generation in the laboratory as well as procured from the market yields a high cost. The energy required to heat the water to boiling in the water distillation process is expensive, in this context the utilization of AC condensed water is effective to best use in the laboratory for general practices and washing laboratory glassware.

4.The practice:

Collection of AC condensed water with the involvement of students is beneficialbecause

a) The additional cost of distilled water generation in the laboratory is reduced toits maximum

b) Cost of energy is reduced

c) The time required to generate water is also reduced

d) Raw Water required to produce distilled water is also reduced

e) Students could learn the importance of water and energy conservation

f) The distilled water demand of the laboratory is fulfilled

The collection and utilization of AC condensed water involve thefollowing activities.

a) The Meeting is organized at the start of the session

b) All the formalities like the use of fresh PVC container for a collectionof AC condensed water is completed

c) AC condensed water from principles cabin is routinely collected

d) Water quality parameters are checked before use for laboratorypractices

e) The routine laboratory practices are performed using AC condensedwater

f) Surplus water is also used for washing glassware

g) The quantity of condensed water obtained from the AC is adequate tofulfil the demand

h) The cost of purchasing distilled water from the market is almostnegligible

5.Evidence of Success:

This approach is attracting the attention of the students. Prior to being used in the laboratory, they routinely gather and test the water to determine its purity.

6.Problem encountered:

The collection efficiency of AC condensed water is reduced during non -operation of air conditioner.

7.Resources required:

Except for the PVC containers and active participation of staff and students, noother resources are required

Figure 3-Demonstration on "Air Conditioners Condensed Water"