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**Best practices in the session 2018-19**

**Best practice – 1**

**GREEN DIARY-** a mandatory record Register on Environmental Activities to be maintained by the students of Pub Kamrup College.

**Best practice – 2**

'Summer Research Training'

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## **Best practices in the session 2018-19**

### **1. Title of the Practice**

**GREEN DIARY**- a mandatory record Register on Environmental Activities to be maintained by the students of Pub Kamrup College.

### **2. Objectives of the practice**

\*To make the youth a responsible, committed and environment friendly citizens of the nation.

\*To guide the youths through the principle-“Think Globally Act Locally”

\*To motivate the youths towards environmental issues, through academic as well as competitive manner.

### **3. The Context**

It is necessary to plant trees to sustain human life, environment and biodiversity. But in our part of the world we care little about planting and preserving trees to sustain our lives and those of birds etc. As trees are diminishing, habitats of beings damaged and destroyed, leading to reduction of fauna. Planting more and more trees will save our planet, as well as protect us from other dangers. Moreover, trees produce as much oxygen, act as carbon sink and absorb carbon dioxide; they clean the air by absorbing carbon monoxide, sulfur dioxide, and nitrogen dioxide and remove air pollution. In villages people sit under the shade of trees and get cool in summer. There is no need for an air conditioner, and during windy and cold seasons trees act as windbreaks. Agricultural lands are being spoiled and there is much soil erosion due to flood and large scale deforestation, causing destruction of habitats of the beings and the people. Throughout the country, campaigns for tree plantation need to be initiated to cope with the climate change and global warming. Pub Kamrup College has been taking mass plantation drive, involving the teachers, students and the local people, since 2003. The process was initiated by the Geography Department of the college under its 'Plantation Cell' with a motto 'Green Earth, Safe Earth'. In the first phase of this programme the teachers and the students of the department planted and nurtured one 'Neem' sapling in the campus of every household located within a radius of 1km centering the college the plantation drive was also covered the local schools campus public institutes etc. till 2012. In 2012-2013 sessions, the college authority extended the plantation drive to include all the students of the college by introducing a new venture under the name 'Green Diary-A Drive for a Green World', where some special guide lines rules and work procedures for the students are given. Moreover, it is a record register for their environmental works and deeds, plantation of sapling and its growth and development. This Diary encourages and involved the students to the plantation drives in a positive way. It's a mandatory works for all the bonafied students of Pub Kamrup College and there is a close monitoring body for the same who visits the plantation sites and evaluate their works for selecting Best Planter and Green Diary maintainer for each session.

### **4. The Practice**

Green Diary – A Diary for a Greenery, it is an endeavour to involve and motivate the youths towards a healthy safe and sustainable environment. It is quite an exceptional and innovative measure of the College through which youths are involved and encouraged for plantation works, environmental activities and sustain biodiversity.

The College takes these initiatives since 2011-2012 sessions. The Green Diary is distributed to the students in the date of screening and admission with a ceremonial function where everyone has to take a special PROMISE-as “ I Sri-----do hereby promise in the name of God that I will plant at least three saplings in my residential campus or any other convenient place in our locality and maintain them properly. I shall keep away from all the activities that may pose harmful and shall do the needful to keep my neighbours and friend circle away from such activities. “After taking this promise the admission procedures started and with other official documents the Green Diaries are provided to the newly enrolled students for the session. The students are asked to follow the Rules of the Green Diary which are written in the Diary. The Rules are-

- At least three saplings either same species or different species have to be planted by the students during her/his academic period.
- Each sapling has to be well maintained with proper supply of water and manure.
- Saplings have to be protected from any harmful elements.
- In case, any sapling dies, it has to be replaced by planting another.
- The records of growth and development of planted saplings have to be documented in the Green Diary from time to time.
- The planted saplings have to be marked prominently, so that it can be identified easily.
- For evaluating the plants, the in-charge teacher has to be informed regularly by the concerned students.
- Other than plantation programme, at least one environmental activity has to be recorded in the Green Diary.
- The Green Diary has to be submitted to the authority on the last day of the final semester/final examination of the concerned course.
- The Certificate attached with the Diary will be signed by the Principal after a thorough check and handed over to the student with her/his course completed Certificate.

All these rules recorded in the Green Diary have to be followed mandatorily by all the students, and the same have to be monitored by a Committee –Green diary evaluation Committee (GDEC), consisting of the Faculty members of the College.

The monitoring Committee, awarding and encouraging policies are the extra efforts of the College which encourages the youths in a more spirited and better way towards the drive.

## **5. Evidence of Success**

The College is witnessing encouraging response from the students and local community. The College fraternity has distributed nearly 1076 Green Diaries to all the newly enrolled students for the session 2012-2013 out of which 632 have submitted with significant undertaking works to the GDEC. The turn over percentage of Green Diary for the first session was-57.45%

Nearly 2893 (one thousand eight hundred ninety three) saplings had planted by 632 students in the session 2012-2013. In the year 2018-19 altogether 1200 saplings were planted. The Department wise Diary turn over percentage for the UG level students' are-

**Table: Department wise Diary turn over percentage for the UG level students**

Total average turnover during 2018-19 Session = 57.45%		
Sl.no	Name of the Department	Turn over Percentage (%)
1	Statistics	100%
2	Zoology	70.02%
3	Assamese	67.4%
4	Economics	63.6%
5	History	56.2%
6	Pol. Science	55.8%
7	Geography	55%
8	English	53.5%
9	Physics	51%
10	Education	49.2%
11	Botany	45.1%
12	Chemistry	30.9%
13	Philosophy	29.5%
14	Mathematics	11.1%

Out of 632 students 7(seven) students are adjudged as Excellent Performer and Best Environment Worker for the session-2012-2013 and awarded a Cash award of Rs.1000/(One thousand) and a certificate of Excellent Performer and Best Environment Worker from the College authority to encouraged the students and accelerate the drives.

#### **Problems Encountered and Resources Required**

As the locality of the College is typically rural and agro based, so there is no such any acute problem for the drives, except some financial and monitoring problems. As the faculty strengths are not sufficient in numbers so due monitoring in due time and regular motivational or awareness talks are to be maintained very hardly. Sometimes the collection of required number of saplings has to collect so hardly.

#### **Notes**

We are very much pleased that this drives have already generated sensation in the greater locality of the college, as some youths-including our alumni and existing students have taking initiatives in

establishing units naming as '*Seuji Basundhara*' an extended cell of Green Diary of Pub Kamrup College- on 25<sup>th</sup> December, 2013 at Pub par Madartola High School, Baruahjani, Kamrup, Assam.

## Best practice – 2

### 1. Title of the Practice:

'Summer Research Training'

### 2. Objectives of the Practice:

Focusing the greater benefits of students, following objectives are taken for conducting the 'Summer Research Training'-

- To provide students with proper knowledge on different areas of research.
- To equip students with hands on practices in handling of instruments.
- To give students proper knowledge on Good Laboratory Practices (GLP).
- To built good communication and presentation skill of the students.
- To built reasonably good practical knowledge.
- To develop skill in scientific research and ability to linkage the broad context in interdisciplinary areas.
- To create awareness of need of science in daily life.
- To enhance the ability of scientific thinking and decision making.
- To create interest for scientific research for the greater benefit of the society.
- To utilize the summer vacation time in a better way for the betterment of society and enhancement of the students ability.

### 3. The Context

To built advance knowledge and skill in any area of work, training is the part and parcel of the respective project. Training leads to the acquisition of knowledge and techniques in a specific area. Moreover, without the hands on practical knowledge science is myth.

Research is becoming a vital key component for innovation and economic growth of the nation. To uplift the society, the grass level have to be strong and it is prime most important to provide and generate knowledge for the upcoming youth.

In this concern, to improve the ability, effectiveness and efficiency of student towards research and scientific knowledge, Pub Kamrup College takes initiation by many approaches. One of the approach is 'Summer Research Training'. To practically making it sound, the Advanced Level Institutional biotech Hub of the college, takes initiation individually and with collaboration of different departments of the college by giving exposure to science to school level and college level students. The hub provided till date a no. of activities for enhancing the students' ability in research and in practical field. The hub takes initiation for giving students training, workshop on different topics during summer vacation for UG level students of the college under the head 'Summer Research Training' from the year 2013.

### 4. The Practice

The practice of the entitled program is generally done in summer vacation program in the biotech hub for the UG level students. But with that the Hub extends the program in different mode. The practices are like:

- Organization of short term hands on training, workshop in different areas for the enthusiastic UG students during the summer vacation time. The area of training and workshop is different by considering the different background students. The program comprises of both theory and practical session. And after the completion of the program, certificates are given to students.
- Motivating and equipping the students to make them able to present and publish research papers.
- Organization of exposure visit program for school students to motivate them towards modern scientific temperament.

Table: Summer training and national seminar organized by different departments of the college and Biotech Hub

Serial No	Event	International/ National/ State/ Institutional	Funded	Organizing dept	Duration and Date	No. of Participants
1	Let's Start Research	Institutional	Institute	IQAC and Institutional Level Biotech Hub	2-5 July, 2016	22
2	One Month Summer Training	Institutional	Institute	IQAC and Institutional Level Biotech Hub	5-31 July, 2016.	22
3	Workshop on Tools and Techniques used in Biochemistry Research	Institutional	Institute	IQAC and Institutional Level Biotech Hub	31st October-5th November, 2016	30
4	Hands-on training on "Application of Nanotechnology for Biological Science Research"	Institutional	Institute	IQAC and Institutional Level Biotech Hub	8 to 14 February, 2017 22	22

5	Harmony with nature in the context of Chemistry, Environmental issues and challenges	National	UGC	Chemistry, IQAC and Institutional Level Biotech Hub	11-12th Sept., 2017	??
6	Innovative Practices in Teaching, Learning and Evaluation in Higher Education	National	UGC	Education, IQAC and Institutional Level Biotech Hub	13-14th Sept., 2017	??
7	Food and Bioprocess Research for Industrial Application	National	UGC	Food Processing and Quality Management, IQAC and Institutional Level Biotech Hub	15, 16 Sept., 2017	??
8	Hands on training on application of Light on the Biological Science Research	Institutional	Institutional	IQAC and Institutional Level Biotech Hub	4 – 9 July, 2018	15
	Hands on training Chemical Basis & Instrumentation for Enhancement of Laboratory knowledge	Institutional	Institutional	IQAC and Institutional Level Biotech Hub	6 – 11 July, 2018	15

	Workshop on Basic Instrumentation and Techniques Used in Biological Science Studies	Institutional	Institutional	IQAC and Institutional Level Biotech Hub	13 – 18 July, 2018	11
	Workshop on Molecular Biology Approach: DNA extraction, quantification, separation, Restriction digestion	Institutional	Institutional	IQAC and Institutional Level Biotech Hub	28 <sup>th</sup> August to 3 <sup>rd</sup> September, 2018	18

#### 5. Evidence of Success

The evidence of success of the practice has extended in many branches. Summarization of the same is listed below-

- As a result of the practice that was done in school levels, Pub Kamrup College had received tremendous response. As a result, in the National Science Day, 2018, celebration, a huge no. of school students participated in the competition with different models made by themselves.
- Earlier the college Biotech Hub has taken initiation to make the visit of the school students to the hub for their exposure to science related things, but now-a-days, school authorities are approaching the college for visiting the Hub. But the college is still continuing its efforts for motivate the students in its larger diameters.
- As a result of training, students' progression towards higher education is increased in different national institutes like IITs, NITs and Institute of reputes.
- Students are able to crack national level competitive examinations like JAM, NET, GATE etc.
- Students are motivated towards research and as a result, students have presented their research paper in different national and international conferences. A few of them have published their research papers in different quality journals.
- Students have become more research oriented

#### 6. Problems Encountered and Resources Required:

Since the college is situated in a rural area while such activities gives a pleasing experience, at the same time greater effort on the part of the teachers as well as the institution to move forward in the mission and make it more successful.

#### 7. Notes (optional)



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