# BEST PRACTICES

## Best practice -I

### 1. Title of the Practice

Rain water Harvesting

### 2. Goal

Though the area where the colleges are situated get good supply of rain, the water storage capacity of the soil is very low. The practice therefore should aim to build up groundwater resources and to reduce surface run off.

### 3. The Context

Most of the colleges are located in a geographical area where the soil is hard and rocky. This often leads to surface run off of rain water resulting in low groundwater resources so that soon after the rainy season the soil becomes rather dry. Since the institution gives utmost importance to protect its greenery, so it is imperative to build up water table resources. Rainwater harvesting provides the long-term answers to the problem of water scarcity. The rainwater collected can be stored for direct use or can be recharged into the ground water to improve the quality of ground water and rise in the water levels in wells and bore wells that are drying up as well as reduce the soil erosion as the surface runoff is reduced. Rainwater harvesting is an ideal solution to water problems in areas having inadequate water resources and helpful in mitigation of the effects of drought and attainment of drought proofing.

### 4. The Practice

Simple form of Rain water Harvesting practice which can help to store water naturally in earth can be adopted. For this rain pits are dug in the college campus. These pits are then back filled with gravel and coarse sand. All the rain water fall in the college campus building is collected with the help of pipes and pored in these pits.

## 5.    Evidence of Success

The outcome of the practice can be very heartening as most of the saplings that will be planted can be vigorously survive the offensive heat of summer. College campus bore well get replenished with the water.  The benefit shared by the local : their wells will not dry up and sufficient underground water can prevent green depletion of the area. This can  provide the NSS students and staff much encouragement as a lot of requests for continuing the practice can come up from the local people.

## 6.    Problem encountered

Since the ground is too rocky in many place, the students can find it difficult to dig through the rocks, in such cases, Plastic containers or cemented container can be used.

## Best practice -II

### 1  Title of the Practice

PPT enabled teaching in the Audio-visual Classrooms

### 2  Goal

ICT enabled teaching has emerged as an important technological innovations since the last two decades. Since ICT makes teaching easier, student friendly, contently and interesting, we established 03 audio-visual classrooms in the last five years. We also have 03 sets of K-YAN portable machines. Besides these, we also possess 07 LCD projectors in spare to use as per need at different places. The specific goals are:

- To inculcate in the faculty the technological competence to strengthen teaching learning
- To promote ICT culture in the college
- To supplement the traditional chalk and talk method by novel teaching approach
- To make teaching and learning interdisciplinary by tapping resources available oninternet
- To make optimum use of the ICT facility in classroom practices

### 3  The Context

- It makes the classroom more and more responsive because it gives both audio and visual effect. Many terms, topics and issues are made conceptual and concrete by linking to video clips, audio clips, pictures, episodes, textual excerpts, etc.
- It makes the teachers the facilitator in true sense. As he proceeds from slide to slide, he inspires the pupils to read, think and respond then and there. Thus, the teacher becomes a true facilitator.
- Student understanding is enhanced because they comprehend whatever is taught. This also improves the quality of answers they provide orally and in written.

### 4  The Practice

It is made mandatory for each teacher to deliver as manylectures as possible by preparing PPTs in an academic year. High speed internet facility is provided to all the departments in the college. Computers and Printers are also provided to many of them. 03 audio-visual classrooms have been established. IQAC convened meetings with the teachers and

encouraged them to make optimum use of ICT facilities for making teaching learning more and more interesting.

## 5 Evidence of Success

- The students learn in a very comfortable and relax atmosphere. There is nounwillingness to learn. They need not write down anything as in the traditionalclassroom because the file is available to them after the class is over.
- Student participation increased substantially. As a result,absentees decreased. A better and cordial relationship developed between the teacher and students.
- Communicative Competence of the students improved drastically because on viewing the PPTs and video clips, they naturally feel to react on the issues.

## 6 Problem encountered

- It is difficult to promote ICT culture in an institute dominated by the first generation learners.
- The ICT support at home is not available to continuously engage the students inactivities.
- ICT infrastructure is expensive and therefore requires massive investment.
- Since there are frequent power cuts, ICT related activities cannot be conductedregularly.
- Additional computers need to be procured and fund is required.

## Best practice -III

1. **Title of the Practice**

   Exhibition and Demonstration of Science Experiments for School Students

2. **Goal**

- Exporsure to school students to infrastructure of the college:

  As the students of primary and secondary school remain unaware of possibilities for ideal infrastructure and possibilities of higher level of research to be undertaken assisted by rich environment made available on the college campus.

- Offering the students an experiecne of laboratories and research laboratories.

  The college aims to bring the students actual experience of working out science experiments at college level. The experience of the students being in the laboratories of the colleges especially that of research laboratories results in understanding the nature and culture of research available on the campus. They are enriched with the idea that they can initiate higher level of research and they can also associate the scientific knowledge they have with the higher level of research.

- Encouraging college students to make presenatations.

  This event becomes doubly successful due to the active participation of college students in the demonstrations and experiments. Students of various science departments are encouraged to participate the event as volunteers and demonstrators.

- Variety of subjects and variety of experiments.

  All science departments take part in the event and it helps students to receive knowledge of various streams in sciences. They move around the various laboratories including the Department of Mathematics where they get to see the demonstrations on the topics like _Golden Ratio', Puzzles in Mathematics, _Maths' Magic', etc.

- Theory in action.

  The event is planned to provide the students practical knowledge of various theories and subjects in the field of science.

### 3. The Context

- Bridging the Gap:

  The event bridges the gap of knowledge of students. It prominently helps in understanding    the basic knowledge of  the subject and its higher level of application. The practical use of knowledge they have strengthens student's confidence in recognition, acquisition, retention and relevance of the knowledge and information.

- Reaching Out:

  The institute is committed to reaching out to each section of the society and spread awareness about education and advanced knowledge. It observes its commitment to social cause as well. The present event proves very fruitful in order to reach out large number of students very meaningfully and create a bond of mutual understanding.

- Integrated learning:

  The present activity has big context that of integrated learning'as proposed by the   policy of higher education. Such type of learning ushers in the learners'better acquisition of the knowledge of various subjects. It correlates itself with extension activities of the institution.

### 4. The Practice

- Teachers of schools are contacted and the schedule of the event is       communicated to them. Usually, the students of 8th, 9th and 10th standard visit the college in majority. They are accompanied by their class teachers.

- Orientation Session:

  The event starts with an orientation session that includes welcoming the students and teachers and providing them understanding about the event.

- Exhibition and Demonstration of Experiments and Helping the Studnets to Perform them:

  The students who are working as demonstrators remain present in the respective laboratories and demonstrate the visiting students the experiments. They not only demonstrate and exhibit the science experiments but also help the students to perform the experiments.

- Inclusion of Experiments from the Curriculum of High School:

It is taken care of that the demonstration and exhibition should include the experiments from the curriculum of the high school.

- Use of ICT Tools:

  The departments make use of ICT tools like projectors. Students are shown the slide shows on various topics. Students of various schools accompanied by their teachers visit the laboratories in groups. Usually there are as many groups as there are teachers available with them.

## 5.   Evidence of Success

The main success of the event lies in the growing number of schools and students visiting the college on the day. The activity has been very successful since 2010. On the demand of the school teachers, the Department of Botany, Zoology, Chemistry, Mathematics, computer Science, English and  History also organizes demonstration and exhibitions issue related to their subject.

## 6.  Problem encountered

It is observed that the schools face problems in taking large number of students to the college. Besides this, the schools from distant places find problems in reaching the college. Many teachers expressed the wish that the college should organize the experiments and demonstrations at their schools. It is also felt that the college cannot accommodate very large number of students for the event. However the college makes proper arrangement in order to run the event smoothly.

# Best practice -IV

### 1. Title of the Practice

Sunder Ratna Career Academy Centre

### 2. Goal

- To prepare the students for all types of competitive examinations.
- To uplift the rural students and create awareness among them.
- To increase employment opportunities among rural students.
- To impart knowledge to the students in addition to the syllabus teaching.

### 3. The Context

The present age is called as the age of competition. Each sector of life is full of competition today. Everywhere, we find the entrance tests for taking admission or joining a new job/service. It is growing difficult day by day to face this cut throat competition.

The students who come to this college are mostly from rural area. They are mostly from illiterate family background. So they are completely unaware of the world of competition. The college teachers teach the syllabus given by the university, but that syllabus cannot meet the needs of this age. That results into the overall progress of the rural students. Therefore, the college decided to start the classes for these students to make them aware of the future scenario. These classes will be an introduction to the competitive exams conducted by different agencies. The students will understand at least the nature and structure of these exams through these classes. The academy prepares a background of the students for facing the challenges of the future.

### 4. The Practice

The following courses are run in the academy:

- Competitive exam guidance classes
- Banking exam guidance classes
- Spoken English

- Police Training classes
- NET/SET examination

All these classes are conducted in a well built and furnished class room with the facilities of internet and LCD projector. The students are provided a separate library especially devoted to the competitive exams related books. A time table is prepared for all the subjects and expert faculty members engage these classes everyday to cover the stipulated syllabus. The academy arranges weekly tests of the students, and they, who stand first, second and third in these tests, are given prizes. Besides the regular lectures, the academy invites guests from outside for guidance to the students. These guests are chiefly the people who acquired success in such competitive exams. Thus the academy tries to shape the future of the rural students.

## 5. Evidence of Success
- Student's awareness about the competitive examination has increased.
- Student participation increased substantially. A better and cordial relationship developed between the teacher and students.
- Communicative Competence of the students improved drastically because of increase in the English communication skill, they naturally feel to react on the issues.

## 6. Problem encountered
- It is difficult to arrange the expert faculty related to the competitive examination.
- Arrangement of the separate time table for the students faculty wise.
- It is very difficult to cover the stipulated syllabus.
- Additional books need to be procured and fund is required.

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