

1. Title of the Practice

Extension Activity 'VidnyanJagar'

- To inculcate scientific temper among citizens and reveals facts through science
- Enhance interest in the science among students in order to retain quality human resource

2. Objectives of the Practice

What are the objectives / intended outcomes of this "best practice" and what are the underlying principles or concepts of this practice (in about 100 words)?

Objectives of Practice:

- Development of scientific temper among students and citizens.
- In order to create interest in the science, organization of quiz, model, essay, poster competitions for school and college students.
- To arrange scientific lectures slide shows etc. for society
- To arrange exhibition of scientific experiments in which nearby school students avail laboratory space and college students who works as a volunteer can understand the basic concept through experiential learning.
- Organization of DES-INSPIRE Camp for 11th std students with main intention to expose them to the excitement and methods of science, research and innovation in order to attract and retain them in the field of basic science.
- To Spread recent scientific development
- To Develop Scientifically Literate Human Resource

The Context

What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words)?

- Our college is situated in the educationally backward area and hence schools in the vicinity are lack of or poor laboratory facilities. All science departments of the college organises exhibition of the experiments which are included in the school science syllabus. Also arrange some innovative, informative, interactive and interest creating experiments. Students of schools in the tehsil are invited to visit the exhibition. During the visit students get hands on exposure to all mentioned experiments in their science books and also learns scientific principles, laws, ideas through additionally arranged experiments. This exhibition is open to all visitors. Citizens can understand basic concepts in the science during visit.

- To attract and retain quality human resource in the field of basic science and research is an important issue of the present days. To address this problem we are targeting students of 11th science classes of junior colleges in Dapoli adjoining tehsils. Every year college is organising DES-INSPIRE camp on parallel theme of DST-INSPIRE on its own cost. It is intended to expose the students to the excitement and methods of science, research and innovation, just prior to the time when they make their career decisions in the field of basic science and research.

3. The Practice

Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)?

VidnyanJagar is yearly practice under which following activities are conducted

- **‘VidnyanJagar’ Exhibition**

This exhibition is organized on 20th January 2019 on the theme ‘To revel and understand scientific principle through laboratory experiments.’ Each science department of college participates and arranges exhibits and experiments in the exhibition. Every department designs the experiment with the help of students. Students demonstrate each experiment and exhibit during exhibition. This will help the students to understand basic principles and concepts of the subject through experiential learning. Students of invited schools perform experiments and see exhibits mentioned in their science syllabus. Also get information related to particular subject through experiments and exhibits. Local peoples who are visiting the exhibition understand basic scientific terms and themes.

DES - INSPIRE:

DES-INSPIRE INTERNSHIP CAMP is organised on 15th to 19th January 2019 with due logistic and monitory support of Dapoli Education Society for students of 11th Science standard based on theme of DST-INSPIRE (Innovation in Science Pursuit for Inspired Research) to attract and retain large number of students in basic science and to promote research in basic science. This 5 days camp includes lectures of eminent educationist researchers, Laboratory practical sessions Hands on sessions like making of scientific models / toys. Resource persons for lectures and hands on sessions are invited from reputed institutes. Some of them are listed below. Students of 11th science from junior colleges located in Dapoli Khed and Mandangad tehsils are benefited by this activity.

Name of Resource Person	Topic
PadmashriDr. Shard Kale (Ex. Scientist B ARC Mumabi)	Opportunities in Basic Sciences
Dr.ApurvaBarve IISER Pune	Bacteria for Mandate
Dr. Ashok Rupner IISER Pune	Making of Scientific Models (Hands on Session)
R. D. Kawathekar Assistant Professor, Pendharkar College Dombivali	Making of Scientific Toys (Hands on Session)

4. Evidence of Success

Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in about 200 words.

Success of this practice is measured on following grounds

- 1) **Feedback of participating school students:** Formal feedback of exhibition, competition and INSPIRE is collected.
 - Feedback for Exhibition: All visiting students happily submit their feedback. In the majority feedback it is found that these students are first time visited the laboratory. They get chance to perform the experiments which are the part of their curriculum. Also they understand concepts and principles of various science subjects through exhibits and interactive experiments. This kind of feedback confirms the success of event.
 - Feedback for Competition: Feedback is collected from prize winners as well as participating school students. All feedback spells that such kinds of competitions motivate them to become curious about science and develop interest in the field of basic sciences.
 - Feedback for INSPIRE: feedback for INSIRE is praiseworthy to note here. From feedback it reveals us that INSPIRE camp is highly benefited for students of 11th standard. This camp not only enhances their understanding and knowledge, but motivates them to make career in basic science field. One of the INSPIRE candidate obtained his career path in basic science after H.S.C. due to motivation through INSPIRE. His parent communicated this fact to the college.
- 2) **Feedback from School Teachers:** School and junior college teachers shared their opinions with organizers about all activities of vidnyanjagar. They shared that every year their students are excited and eagerly waiting for exhibition and INSPIRE Camp. No need of any advertisement of these events just send us time schedule of events. This is a success story of 'VidnyanJagar'
- 3) **Feedback from Public:** Local public is also curious about exhibition, they shared their experience with us that they feel this exhibition new every time which adds new scientific information to their knowledge.

4) Experience of Organizing Students: Student participants who organize these exhibitions and make presentations in these, develop several skills including leadership, teamwork, public speaking, social communication. They clarify the concepts of respective subject through experiential learning.

From all the above it is concluded that this activity is not only successful but popular in students, teachers and in public.

5. Problems Encountered and Resources Required

Please identify the problems encountered and resources required to implement the practice (in about 150 words).

Problems Encountered

- All the activities of this practice are of large scale and hence required more human resource and financial resource. Human resource is available in the form of college students but to mobilize funds for these activities is a herculean task.
- For INSPIRE Dapoli Education Society providing finance but which is not meeting with the expenses incurred.
- All these activities required more man hours and which find difficult to invest by students and faculties in this semester based examination system.
- These are sustained activities and hence every year there is search of new ideas for exhibition and new resource persons for INSPIRE in order to maintain novelty in the activities.

Resources Required

- Enthusiastic Human Resource
- Financial Resource
- Incubation of innovative ideas
- Well Learned Faculty Resource for INSPIRE
- Logistic Support

But till date on overcoming problems and generating resources this activity is successfully and popularly organized every year.
