

## **Best Practices: 1**

**1. Title of the Practice:** EDUSAT based distance learning programme of IIRS under ISRO:Dept of Geography

**2.Goal:** Skill based education, development of analytical skill among the students, value addition and ability enhancement among the students

### **3. The Context**

Upgrading academic process is a continuous endeavor for the institution. The changing education scenario mandates:

- Self and external evaluation and sustenance initiatives for maintaining Quality
- Stimulating academic environment for promotion of quality in teaching, learning and research
- Inculcating accountability in students for assuring quality of their learning, research and services. Through brainstorming lectures it was felt that this will help us to understand the present status of various institutional processes and identify the gaps. This will guide and direct us to take necessary steps /start new initiatives. It was found that we lacked standardized formats for periodic academic units.

### **4. The Practice**

ISRO Bangalore conducts online programme through Indian Institute of remote sensing (IIRS).The U.G.and P.G students from any faculty registered for this programme .IIRS gives free of cost online training to the registered students.The students have to remain present at least 70% of the live lectures.IIRS also gives data to the students and ask them to analyze the data. Under its outreach programmes,IIRS has established its own teaching and studio and unlinking facility in the campus under national beam coverage of ISRO satellite connecting numerous class rooms and users. Indian institute of remote sensing (IIRS) utilizes the KU-Band facility of INSAT-4CR,an ISRO satellite and internate,for conducting distance learning programme to primarily compliment to educational programmes of the Indian Universities. Indian institute of remote sensing (IIRS) has successfully conducted seven courses on basics of remote sensing. Geographic information system and Global positioning system and advances in GIS benefitting about 5600 students at graduate and post graduate level.Importantly,with the present networking, nearly 1000 students attend the programme at a time. The programme is very popular among the Universities as it supplements their own education system and requires a very low-cost infrastructure (existing network of computers with a small antenna) for receiving the programme and live interaction between the classroom and teaching ends. Continued efforts are on to upgrade the content delivery systems and to strengthen the network with Indian Universities.

### **5. Evidence of Success:**

The department of Geography of the college has been participated and taken benefit of this

outrached programme of IIRS. The UG and PG students from Geography department of the college has registered for this programme. Students remain present sincerely for this online mode of training. The students analyze the data from IIRS and get the training of handling of data and analyzing it. The students trained received good job. The target group includes students and researchers at different Universities/Institutions. The students from the department of Geography are benefitted from this outreach programme of IIRS. The college has appointed Prof.K.M.Gavit of the Geography department as the coordinator of the programme. This endeavor which started with skepticism concluded with the staff feeling satisfied.

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

There was initial resistance from staff and students as they felt that the exercise was futile and time-consuming. The training process is complicated and students will not understand. To address those problems the training was extended for some days.

### **Best Practices: 2**

**1. Title of the Practice:** “Learning by questioning”-Dept of Physics

**2. Goal:** Excellence of learning practices, quality for masses and not only for classes, understanding of core concepts from Physics

#### **3. The Context**

Upgrading academic process and present system of teaching learning is a continuous endeavor for the institution. The changing education scenario mandates:

- Self and external evaluation and sustenance initiatives for maintaining Quality
- Stimulating academic environment for promotion of quality in teaching, learning and research
- Inculcating accountability in students for assuring quality of their learning, research and services. Answers with explanation it was felt that this will help us to understand the present status of various institutional processes and identify the gaps. This will guide and direct us to take necessary steps /start new initiatives.

#### **4. The Practice**

There is Tie up of Dept of Physics with IIT Mumbai in its great programme namely, “Learning by Questioning”. The students from Physics ask questions online to the professor from IIT on every Friday during 4.00 to 5.00 PM. The interactions between students and IIT professor is online and live. Students and professor can see each other on screen and discuss freely on any question from Physics. Prof.S.D.Bagul, Assistant Professor of Physics is the coordinator of this very important programme.

#### **5. Evidence of Success:**

The department of Physics of the college has been participated and taken benefit of this outreach programme of IIT Mumbai. The UG and PG students from Physics department

of the college have registered for this programme. Students remain present sincerely for this online questioning programme. The target group includes students and researchers at different Universities/Institutions. The students from the department of Physics are benefitted from this outreach programme of IIT Mumbai. This endeavor which started with skepticism concluded with the staff feeling satisfied.

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

There was initial resistance from staff and students as they felt that the exercise was not adequate to solve our academic syllabus related questions and time-consuming. The process is complicated and students will not understand the answers. To solve those problems the programme was extended for some days.