

स्वामी विवेकानंद  
महाविद्यालय  
उदगीर जि. लातूर.



Swami Vivekanand  
Mahavidyalaya,  
Udgir Dist. Latur

Govt. of Maharashtra Recognized & Permanently Affiliated to Swami Ramanand Teerth Marathwada University, Nanded  
(Recognized Under Section 2(f) & 12(b) of U.G.C. Act 1956)

Prof. [Dr.] Sudhir Jagtap (M.Sc. M.Phil.Ph.D.)  
Founder & President

Ref. No.SVMU/

Date :

## TEACHING PEDAGOGY USED (Academic Year 2019-2020)

### 1. Story Telling

Students love to hear stories and therefore, storytelling is one of the best ways to get their attention in class. Teacher can explain the facts of biology or the laws of physics in the form of stories. This is a mental organizer as human brains can remember stories than just plain facts. Some teachers present the whole concept as a story while some others use a story to open and end the session.

### 2. Role Play

This innovative method is becoming an integral part of science education as students can intellectually and physically involve through activities while learning a new concept. Activities can be organized in classroom sessions where a group of students can take the role of atoms or molecules to study a chemical reaction or they can represent a scientist group to demonstrate the particular scientist's laws.

### 3. Science Museums

Give opportunity to students to visit a science museum as part of the learning process. This gives them access to innovative resources and they can visualize data they learned in class. They can have a look at the real work of scientists which improves their urge to learn about it further. Regular visits to museums make learning science more engaging and interesting.



#### **4. Projects**

This can be an individual activity or group activity which helps students to showcase the application side of what they learnt through theory. This method involves choosing the idea, building a plan, executing the plan and finally evaluating it. When students pass through these stages, they can improve their skills to express ideas, problem solving, overcoming the challenges, team work and self-assessment.

#### **5. Research books**

The teacher can promote the use of research books in classrooms rather than just text books and lecture notes. Students are asked to do a research on whatever topic is covered in class by means of libraries, websites or by talking with experts. This can include the extended information of their syllabus and their findings with diagrams and charts to emphasize it. They can share their research books with classmates too.

#### **6. Documented Problem Solving**

In this method, the teacher insists students record their thought process when solving a problem. They are asked to explain their reasoning for reaching the particular solution rather than simply presenting a solution. This kind of documented problem solving helps them to have a deeper understanding of their process and gives an option for self-analysis.

#### **7. Science Exhibition**

Encourage your students to take part in science exhibitions as part of school level or inter-school level competitions. This is a great opportunity to bring out their creativity in science and design an application based on a scientific concept.

Develop this inquisitiveness and creative mindset in student's right from the elementary classes to help them to grow up as science enthusiasts.



### **8. Interactive science journals**

This is an advanced version of lecture notes in which students express the information they learnt into different templates and elicit their own responses. Students can use this technique effectively to have a deeper connection to their learning and this activity promotes their higher level thinking. They can be creative with their notebooks using pictures, charts and comments, thus, building an encompassing resource for future reference.

### **9. Science at home**

Like scientists say, science starts from home. Encourage your students to discover science at home from elementary classes itself. Ask them to find out a specific science concept application at home as assignments and let them discover science on the go.

There are fun science activities at home that involve parents and kids such as measuring Earth's circumference with a shadow, creating under water fireworks with chemistry, building a balloon powered toy car and a lot more.

### **10. Science Quiz**

Include a quiz as a part of your classroom sessions when teaching science. This can be done as a whole class activity by splitting the group into 4 or more sets. The questions can include the application of the theory taught in class. Students can discuss and share ideas to find the solution within the stipulated time frame. This teaching approach helps students to think from different angles and sometimes, to think out of the box.



*Swami Vivekanand*  
**Principal**  
Swami Vivekanand  
Mahavidyalaya, Udgir