

PEDAGOGICAL ANALYSIS FOR PHYSICAL SCIENCE PS43082T

UNIT 1

1. Choice of a topic or unit for the pedagogical analysis.
2. Dividing the unit into subunits and allocating the no. of periods required. No of periods for reteaching and evaluation is also mentioned. Add the total no of periods required for the unit. Mention the class for which it is meant. This is called CONTENT ANALYSIS.
3. Choose any one subunit and divide it into 2 or 3 concepts. Write down the summary of each concept along with diagrams if necessary.
4. Next we write down the objectives using Revised Bloom's Taxonomy- 4 knowledge dimensions for each cognitive dimension. In short, there should be 24 statement of objectives in total.
5. Based on point 4, the taxonomical table should be constructed with cognitive dimension on x axis and knowledge dimension on the y axis
6. Under the TEACHING STRATEGIES,
 - i. the broad methods of teaching which is used to teach the subunit such as lecture interactive method, demonstration method or discussion method
 - ii. the equipment used such as the usual classroom aids, charts, models or flash cards mentioning what they are showing. Black board use should be written separately.
 - iii. 2 probing questions with answers.
 - iv. in the learner centred activities, the students need to prepare a worksheet consisting of various objective type questions.
7. The BLUE PRINT needs to be prepared according to revised Bloom's Taxonomy, where the cognitive process dimension and the type of questions (OT, ST, VST) will lie on the horizontal axis while the Content/ concept will lie on the vertical axis. The percentage weightage to objectives & types of questions should be calculated and also the percentage weightage to content/concept.
8. the CRITERION REFERENCE TEST need to be prepared based on the BLUE PRINT OR TABLE OF SPECIFICATION. 20 marks question paper to be completed in 30 mins, mentioning the class, topic, subunit and the date. Beside each question, the cognitive dimension and the content/ concept from which it is taken should be mentioned.
9. Finally the SCORING KEY, or the answers to the objective type questions need to be mentioned.