

# MAHAJUBILEE TRAINING COLLEGE

MULLOORKARA - THRISSUR (DT.) Pin: 680 583



**Topic :** Techno pedagogic content analysis of a unit from secondary school level text book.....

**Year ...2020-2022....**

**Semester ....FOURTH.....**

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**Optional Subject** .....PHYSICAL SCIENCE.....

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**FACULTY MEMBER**

Date 30-03-2022

Asst. PROFESSOR IN PHYSICAL SCIENCE  
MAHAJUBILEE TRAINING COLLEGE  
MULLOORKARA - 680 583



*Rev. Dr. Chacko Chiramel*  
**PRINCIPAL**

Date 30-03-2022

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## 1. INTRODUCTION

As a part of B.Ed curriculum we have to carry out a task in EDU 1312 Professionalising physical education, on the topic 'prepare a Techno pedagogic content analysis of a unit from secondary school text book'.

Pedagogic analysis refers to the logical and systematic breakup of the curriculum from the point of a pedagogue for the purpose of effectively transmitting it. This would not only help the teacher to identify each component of the learning material and its types but addition to these it involves the process of determining objectives and selecting suitable learning experiences. It also aims at pooling of all the resources for the difference effective realisation of the goal anticipated.

Techno pedagogy refers to electronically mediated courses that integrate sound pedagogic principles of teaching or learning with the use of technology. Technology in the profession develops specific technical

pedagogical competencies allows faculty to make the work practitioners at the centre of professional study in a community of practice. The technopedagogical knowledge is collaboratively developed framework of scholars and researchers seeking to conceptualise and classify the competencies that evolve from the intersection between pedagogy and technology. Investments and interactive technologies in education require both the technological and pedagogic skills to use them.

### 3. PEDAGOGICAL ANALYSIS

Name of the teacher : Anna. Vijo

Name of the school : MJTC

Name of the subject: chemistry

Name of the unit : Redox reaction and rate of chemical reactions

Name of the topic : Factors affecting rate of chemical reaction .

### Learning objectives of the topic

- To identify the factors that effecting rate of chemical reactions
- To analyse how the nature of reactants, concentration and surface area of reactants, temperature and catalyst effects the rate of chemical reaction.

### Learning outcomes of the topic

- The learner will be able to identify about the various factors that effecting rate of chemical reactions
- The learner will be able to know how the nature of reactants, concentration and surface area of reactants, temperature and catalyst effect the rate of chemical reactions.

### Content Analysis

Terms : concentration, reactants, surface area, collision, temperature, catalyst, threshold energy.

Facts : → All the chemical reactions all does not takes place in a same reaction rate.

→ rate of a chemical reaction can be increase or decrease

concepts - → Nature of reactants influences the rate of chemical reactions

→ Concentration of reactants increases number of molecules per unit volume and the number of effective collision increases consequently rate of reaction increases.

→ To take part in a chemical reaction molecules should attain a certain minimum kinetic energy. This energy is called threshold energy.

Technological pedagogical analysis of content

