

Iqbal Square, Meprathupady, Vengola, Perumbavoor, Ernakulam - 683 556

KEY INDICATOR

CRITERION 2-Teaching-learning and Evaluation

2.4 COMPETENCY AND SKILL DEVELOPMENT

PREPARATORY SCHOOL ACTIVITIES

METRIC 2.4.2.A

Reports and photographs / videos of the activities

Affidavit

I do hereby certify that, all pages in this document are duly authenticated by me, under my privilege as the Head of the institution of National College for Teacher Education, Vengola, Ernakulum, Kerala

> E-mail : nationalcollege09@gmail.com, Website () www.pationalcollege.edu.in CONN_COLLEGE TOR TOCHER EDUCTION () CONO ICEAL SOUARE, MEPRATHUPADY ICEAL SOUARE, MEPRATHUPADY ICEAL SOUARE, MEPRATHUPADY

The institution provides a set of activities as preparatory to school based practice teaching and internship. The activities help in bridging the gap between theoretical knowledge and practical application. Following activities are selected by the institution:

- Classroom observation-demonstration classes are organized by the institution and students observe teaching strategies, student engagement and overall flow of the lesson. Writing reflections on observed classes to analyses teaching methods, student interactions and lesson effectiveness.
- Familiarizing with curriculum study-content analysis of textbook and other educational resources are done during practice sessions. Students also create teaching aids, digital content etc. for enhancing learning experience.
- 3) Formulating learning objectives-developing lesson plans, incorporating learning objectives, instructional strategies, materials needed and assessment methods. Micro teaching in controlled environments, often with peers to refine lesson delivery and receive feedback.
- Content mapping-the concept mapping is done through mind mapping software and students prepare content outline for each unit.
- 5) Identifying varied student abilities-sessions focused on differentiated instruction, teaching methodologies, and use of technology in classroom. Training is given for handling diverse classroom situations, maintaining discipline, and fostering a positive environment is provided.
- Collaborative learning- students are trained for team teaching preparation for promoting collaboration and shared responsibility. Peer feedback is collected for constructive feedback.
- 7) Mentor ship meetings- are organized for mentors at the school for discussing the content to be covered, methods of teaching etc. Personal and professional goals are set for the internship period often with the guidance of the mentor.
- Understanding school environment-Informal meetings with school staff and teachers are provided to build rapport with the school community.



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- Classroom management-setting clear expectations, establishing routines, implementing positive reinforcement, and plan how to handle potential disruptions or challenging behaviors are dealt in this session.
- Understanding student needs- learning about student's background, special needs, language barriers, and learning difficulties. Here differentiated instruction is set for meeting diverse learning needs.
- Mock-teaching-practice delivering lessons in front of peers or mentors are done to build confidence.
- 12) Reflective practices-students engage in reflective practices by thinking critically about approaches of teaching and philosophy of teaching. Personal goals are set for teaching practice and identifying areas for improvement.
- Self-care and stress management-students develop strategies to manage stress and maintain work-life balance during teaching practice.
- Technology integration-students learn how to use classroom technology to enhance student engagement.
- 15) Legal and ethical considerations-students are familiarized with legal and ethical issues related to teaching, developing student confidentiality, cyber laws, and mandatory reporting requirements.
- 16) Collaboration and communication-Students plan to collaborate with other teachers, supporting staff, and parents to support student learning. They develop effective communication skills for interacting with students, parents and colleagues.
- Exposure to Braille/Indian language/Community engagement-Training and provision is given for handling multilingual classrooms and handling inclusive classrooms.

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National College for Teacher Education

(NAAC Accredited with 'B' Grade) Iqbal Square, Meprathupady, Vengola, Perumbavoor, Ernakulam - 683 556

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Documentary Evidence

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Tel : 0484 2522583, 0484 2525603

NATIONAL COLLEGE FOR TEACHER EDUCATION IQBAL SQUARE, VENGOLA, PERUMBAVOOR, ERNAKULAM DIST., PIN 683 554

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PRACTICAL ON ICT Makinal Preparation

B.Ed. COURSE 20 - 20

NAME ANAMIKA N.S. OPTIONAL SUBJECT PHYSICAL SCIENCE REG. NO: 233.240114.389.... YEAR 2023-2025 Certified that this is a Bonafide record of practical Work done by the trainee during the year 2023-205



Faculty in charge

INTRODUCTION

An organic compound is defined as any compound whose molecules contain carbon and hydrogen (also known as " hydrocarbons") or compound that is the derivative of it. The chemical reaction of some organic compounds and the properties and preparation of some organic compounds properties and uses of soap and detergents are discussed in this ICT material. The primary goal of a learning material is to provide educators and that effectively conveys learners with resources understanding and active ,support information encouragement in encouraging learning. Information and communication technologies (ICT) is defined as a diverse set of technological tools and resources used to transmit, store, create, share or exchange information. This ICT material contains a brief description about the lesson Chemical Reactions of Organic Compounds and three worksheets and their answer keys. The learning

material with almost 25 pages will be helpful for both learners and educators.

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CHEMICAL REACTIONS OF ORGANIC COMPOUNDS

Chemical Reactions

Addition Reaction

A reaction involving addition of atom or molecules to the double or the triple bond of an unsaturated compound so as to yield a saturated product is known as addition reaction.'

E.g. : Addition reaction of ethylene with hydrogen in presence of Nickel

Ethane

Ni $CH_2 = CH_2 + H_2$ CH3-CH3 Ethene

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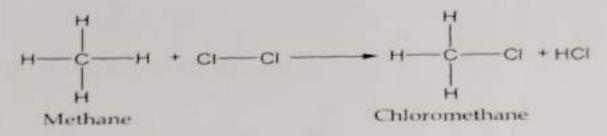


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Substitution Reaction

The substitution reaction is defined as a reaction in which the functional group of one chemical compound is substituted by another group or it is a reaction which involves the replacement of one atom or a molecule of a compound with another atom or molecule.

E.g.: Substitution reaction of Methane with chlorine

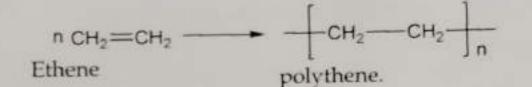


Polymerization

Polymerization, any process in which relatively small molecules, called monomers, combine chemically to produce a very large chainlike or network molecule, called a polymer.

E.g.: Polymerization reaction of ethene to polythene

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Combustion of hydrocarbon

Hydrocarbon combustion refers to the chemical reaction where a hydrocarbon reacts with oxygen to create carbon dioxide, water, and heat.

E.g.: Combustion of Methane

 $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O + Heat$

Thermal Cracking

Some hydrocarbons with high molecular masses when heated in absence of air undergo decomposition to form hydrocarbons with lower molecular masses.



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PRINCIPAL CONTRACTOR TRACT & EDUCT · E.g. : Thermal cracking of propane

 $\begin{array}{ccc} \mathrm{CH}_3 - \mathrm{CH}_2 - \mathrm{CH}_3 \rightarrow & \mathrm{CH}_2 = \mathrm{CH}_2 + \mathrm{CH}_4 \\ \mathrm{Propane} & & \mathrm{Ethane} & \mathrm{Methane} \end{array}$

Organic compounds

Alcohol (X-OH)

Methanol (CH3-OH)

$$CO + 2H_2$$

$$CH_3 - OH$$

Methanol

Ethanol (CH3-CH2-OH)

Industrial preparation





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$$C_{12}H_{22}O_{11} + H_{2}O \xrightarrow{\text{Invertase}} C_{6}H_{12}O_{6} + C_{6}H_{12}O_{6}$$

Sucrose (Sugar) Glucose Fructose
$$C_{6}H_{12}O_{6} \xrightarrow{\text{Zymase}} 2C_{2}H_{5}\text{-OH} + 2CO_{2}$$

Ethanol

Carboxylic acid (X-COOH)

Industrial preparation of Ethanoic acid

 $CH_{j} - OH + CO \xrightarrow{catalyst} CH_{j} - COOH$ methanol ethanoic acid

Esters (X-CO-X)

Formation of Esters

$$CH_3 - COOH + HO - CH_2 - CH_3 - COO - CH_2 - CH_3 + H_2O$$

ethanoic acid ethanol

ethyl ethanoate



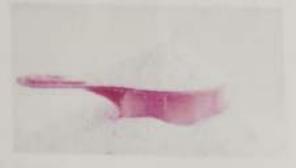
P Dr. N. SETHU MADHAVAN

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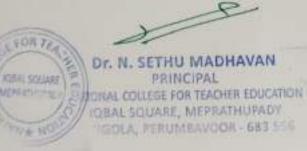
Soap

- Formed by the reaction of fats and oils with alkali.
- Do not lather in Hard water.



Detergent

- Made from hydrocarbon obtained from coal and petroleum
- Lather well in Hard water.



WORKSHEET -1

CHEMISTRY

Score: 25

Time : 30 minutes

Each question 1 to 2 carries 1 score

1.PVC is used for the preparation of pipes. What is the name of its monomer?

2. Which of the following molecule undergo addition reaction?

(Methane, ethane, propene, butane)

Each question from 3 to 5 carries 2 score

3. The major component of cooking gas is butane (C4H10)

a) Write the chemical equation of reaction when butane undergo combustion.

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Dr. N. SETHU MADHAVAN PRINCIPAL FIONAL COLLEGE FOR TEACHER EDUCATION IGBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAYOOR - 683 556 **b)**Identify the product obtained when Butane undergo thermal decomposition.

[C5H6, C5H12 , C3H6 ,C6H12]

4.C3H5 →CH4 + A

a) Give the molecular formula of A.

b) To which category does compound A belong?

(Alkane, Alkene, Alkyne)

5.Examine the equation given CH2=CH-CH3 + H2 → CH3-CH2-CH3

a) Choose the saturated and unsaturated hydrocarbons in the above equation?

b) By which name is this type of reactions are known?

Each question from 6 to 8 carries 3 score

6.Fill the blanks using suitable chemicals.

a) CH4 +A →B + HCI





PRINCIPAL TIONAL COLLEGE FOR TEACHER EDUCATION FORAL SQUARE, MEPRATHUPADY ENGOLA, PERUMBAVOOR - 683 556 b)CH≡CH + H2 → C

c) CH2=CH2 + HCI → D

7. a) Different stages in the manufacture of a substance is given below Fill in the blanks.

A

C12H22O11 + 2H2O -----→ C6H12O6

Zymase

C6H12O6 -----→ B+2 CO2

b) Which among the following compounds must react with product B to get an ester?

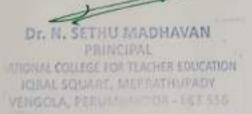
[CH3CH0, CH3-COOH, CH3-CH2-CH2-OH]

8.A polymerization reaction is given

n CF2=CF2 → --[--CF2-CF2--]-n

a) Name the monomer.





b) What is the name of the polymer?

c) Give any one use of the polymer.

Each question from 9 to 10 carries 4 score

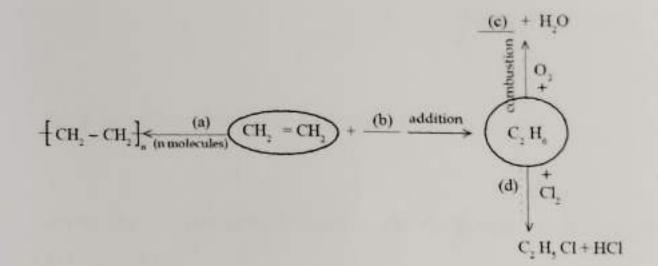
9.

Reactants	Products	Name of chemical reaction
a)CH4 + Cl2	CO2 + H20	Addition reaction
b)C3H8 +O2	C2H4 +CH4	Substitution reaction
c)CH2=CH2+H2	CH3Cl + HCl	Thermal decomposition
d)CH3-CH2-CH3 + Heat	СНЗ-СНЗ	Combustion

10. Complete the reaction by finding out a,b,c and d



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WORKSHEET - 2

CHEMISTRY

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Score: 25

Time: 30 minutes

Each question from 1 to 2 carries 1 Score

Lwrite the two Products formed by the the thermal cracking of CH3-CH2-CH3.

2.which among the following can undergo polymerization reaction?

(C3H8,C2H4,CH4,C4H10)

Each question from 3 to 5 carries 2 score

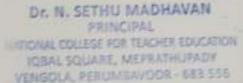
 $3.CH4 + Cl2 \rightarrow A + HCl$

a) what is the name of compound A?

b) To which type dies this reaction belongs?

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(Addition reaction, Substitution reaction, Combustion, polymerization)

4. Some equations are given

- CH2=CH2 + A→ CH3-CH3
- CH3-CH3 + Cl2-→ B + HCl

a) Find out A and B.

b) Write down the name of the first reaction.

5. PVC is a polymer commonly used for making pipe

a) what is polymerization?

b) Draw the structure of monomeric unit of poly vinyl chloride.

Each question from 6 to 8 carries 3 score

6. $CH \equiv CH + H2 \rightarrow X$

 $X+H2 \rightarrow Y$

 $Y + Cl2 \rightarrow Z + HCl$



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7. CH4 +A → CO2 +H2O

 $CH4 + Cl2 \rightarrow B + HCl$

C + H2 → CH3-CH3

- a) Find A, B and C and name type of reaction in each of the above equation.
- 8. Given below are certain hydrocarbons

CH4 ,C4H10 ,C3H6 ,C6H14

a)Which among this can undergo addition reactions?

b)Complete the following reactions

CH4 +O2 → ____ +

C4H10 + Cl2 → ____ +



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Each question from 9 to 10 carries 4 score

9. What are a,b,c and d

Reactions A	Product B	Name of the reaction B
CH3-CH3 +Cl2	(a)	Substitution reaction
C2H6 + O2	CO2 +H2O	(b)
nCH2=CH2	O	Polymerization
CH3-CH2-CH2	CH2=CH2+ CH4	(d)

I $C_{12} H_{22} O_{11} + H_2 O_{11}$ invertase $C_6 H_{12} O_6 + C_6 H_{12} O_6$ II $C_6 H_{12} O_6 Zymase > 2 C_2 H_1 OH + 2CO_1$

10. The equation for the preparation of 8 to 10 % of alcohol is given



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- a) What is the alcohol obtained by this process called ?
- b) How is it converted into rectified spirit?
- c) What is meant by methylated spirit?
- d) How is power alcohol prepared?

WORKSHEET -3

CHEMISTRY

Score: 15

Time: 30minutes

Answer any all question from 1 to 3. Each carries 1 score





Dr. N. SETHU MADHAVAN PRINCIPAL CIONAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 556 1. A) Complete the following reaction.

CH4 +2O2→ ____+____

B)It is an example for _____

(displacement reaction, thermal cracking, Combustion)

2. Purest ethanol is called .

3. What is addition reaction? Give any example.

Answer all question from 4 to 7 .Each carries 3 score

4. Polymerization reaction of Teflon is given

nCF2=CF2 → -[--CF2-CF2--]-n

a) Identify the monomer of this reaction.

b) What is the name of the isomer?

c) Give one use of Teflon.

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5. See the chemical equation given below .

1.CH2=CH2 + H2 \rightarrow (A)

 $2.(A)+Cl2 \rightarrow (B)+HCl$

a) Identify A and B

b) What are called reactions 1 and 2

6.Soap and detergents are used for washing

a)Suppose you are decided to make soap in your classroom. List out the names of the required substance.

b) write down one merits and demerits of detergent over soap.

7. a)Briefly explain the Industrial preparation of ethanol.

b) Write any two uses of ethanol.

ANSWERS

WORKSHEET -1

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1. Vinyl chloride



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2. Propene

A) 2 C4H10 +13O2 →8 CO2+10 H2O

B) C3H6

4. a) C2H4

b) Alkane

5. a) CH2=CH-CH3 - unsaturated

CH3-CH2-CH3 - saturated

b)Addition reaction

6. A - Cl2

B- CH3Cl

C-CH2=CH2

D- CH3-CH2-Cl

7. a)A - invertase

B-2C2H5OH

b)CH3COOH

8. a) Tetrafluroethylene

b) Teflon

c) Used in the inner coating of nonstick cookware



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9.

Reactants	Products	Name of reaction
a)CH4 + Cl2	CH3C1 +HCl	Substitution Reaction
b)C3H8 + O2	CO2 +H2O	Combustion
c)CH2=CH2 + H2O	СНЗ-СНЗ	Addition reaction
d) CH3-CH2-CH3+ HEAT	C2H4 + CH4	Thermal decomposition

10. a) polymerisation

b) H2

c) CO2

d) Substitution

WORKSHEET -2

CHEMISTRY

1. CH2=CH2 + CH4



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3. A) CH3-Cl

B) Substitution reaction

4. a) A. H2

B.CH3-CH2-C1

b) Addition Reaction

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5. a) Polymerization is a process through which a large number of monomer molecules react together to form a polymer.

b)

6. a) X -CH2=CH2

Y- CH3-CH3

Z-CH3-CH2-Cl

b)Substitution

7. A-202

B -CH-CH3Cl



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8. a) C3H6

b) CH4 +O2 → CO2 + H2O

 $C4H10 + Cl2 \rightarrow C4H9Cl + HCl$

9. A -CH3-CH2-Cl + HCl

B-Combustion

C -[-CH2-CH2-] n -

D -Addition

10. a)Wash

b)By distillation

c) Denatured alcohol which contains ethyl alcohol with 5% methyl alcohol, a coloured dye, and some pyridine.

d)Power alcohol is a liquid mixture that contains petrol, Ethanol, and a small amount of benzene.



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IQBAL SQUARE, MEPRATHUPADY VENSOLA, PERUMBAYOGR - 64

WORKSHEET-3

CHEMISTRY

1. a) Cho + 2O2CO, + 2H2O

b)Combustion

2. Absolute alcohol

3.Reactions in which unsaturated organic compounds react with other molecules to form saturated compound are called addition reaction.

4.a) CF2=CF2

b)Tetrafluroethane

c)Teflon is used in non stick cook wares.

5. a) A. CH3-CH3

B. CH3-CH2-Cl

b) 1. Addition



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2. Substitution

6. A) i) coconut oil or any vegetable oil.

ii) Sodium hydroxide / potassium hydroxide

B) i) Detergents are effective in hard water. But soap doesn't lather in hard water.

ii) The use of detergents are detrimental to aquatic animals. But soap is not harmful to environment.

 a) Ethanol is prepared by fermentation of sugar solution or molasses using yeast.

The invertase present in the yeast convents the glucose and fructose into ethanol.

 $C_{12}H_{22}O_{11} + H_{2}O \xrightarrow{\text{invertase}} C_{6}H_{12}O_{6} + C_{6}H_{12}O_{6}$ glucose fructose $C_{6}H_{12}O_{6} \xrightarrow{\text{zymase}} 2C_{2}H_{5} - OH + 2CO_{2}$



Dr. N. SETHU MADHAVAN PRINCIPAL UIDNAL COLLEGE FOR TEACHER EDUCATION IQBAL SQUARE, MEPRATHUPAOY VENGOLA, PERUMBAVOOR - 683 550 The dilute ethanol solution obtained by this process is called wash. When wash is subjected to fractional distillation 95.6 % ethanol solution is obtained.

b. Used as solvent in manufacturing other organic compounds

Used as an additive to automobile fuel.

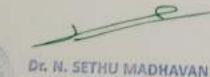


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Report

As part of B.Ed. curriculum I prepared an ICT instruction essential based on the topic **Chemical reaction of organic compounds** Chapter 7 of standard10. I prepared ICT material in Microsoft word which include about 25 pages. Each page is highly informative. It also contains 3 worksheets and their corresponding answer keys. We use texts images pictures etc. for making the material effective for learning. The use of audio visual aids which will be helpful for maintaining attention and raising interest of learner towards the particular subject. This material is prepared in the form of simple to complex manner. This chapter mainly deals with different types of organic reactions, organic compounds, soaps and detergents.



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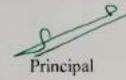
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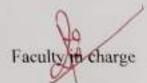


PRACTICUM ON ERVIQ3: DEVELOPMENTS AND RESOURCES IN EDUCATIONAL TUNNOLOGY B.Ed. COURSE 2023 - 2025

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Submitted for the Practical held on

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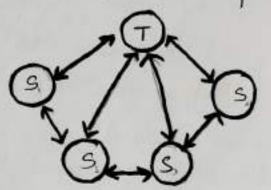
INTRODUCTION

What is interaction?

Ned A Flenders defines. "Teaching as an interactive process. Interaction means participation of students and teacher in the process of teaching."

In this process teacher influences the students; students also interacts with the teacher. Interaction takes place between the students themselves also.

It means in the process of Leaching, everybody interacts with every other person involved in the process.



Teacher influences students through lecture, ask questions, criticizing, giving directions etc.

students reacted to teachers lecture and quaition through giving responses

Il is interaction between teacher and student.

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INTERALTION ANALYSIS

Interaction Analysis is a process of encoding and decoding a pattern of interaction between the communicator and the receiver.

Endeding helps in recording the events in a meaningfull way and decoding is used to amange the data in a usefull way and then analyzing the behaviours and interactions in the classroom interaction.

There are four main Lechnique to observe the interaction Systematically. These are:-

- 1. Flanders Toleraction Analysis Categories System (FIACS)
- 2 Reciprocal Calegory System (RCS)
- 3 Equivalent Talk categories (ETC)
- 4 Verbal Interaction (alegory System (VICS)

Flanders Interaction Analysis Technique is most suitable and widely used technique in the field of research all over the world.

Characteristics of Toteraction Analysis

- 1. The classroom verbal interaction can be mad more effective
- 2. The Leacher can increase student participation in his teaching
- 3 The direct behaviour of teacher may be shifted to indirect behaviour, which is more suitable in democratic way of life.
- 4 The Laprecorder and vedicitape can be used for recording the classroom events. The trainee can encode and decode his own behaviour.

5 This technique can be also combined with other feedback device such as microteaching and simulated teaching. FLANDERS INTERACTION ANALYSU CATEGORY SYSTEM Ned A Flanders developed a system of interaction analysis to study what is happening in a classroom when a heacher teaches. It is known as Flanders Interaction Analysis

(alegorics System (FIACS)

Flanders and others developed this system at the university of Minnesola, USA between 1955 and 1960

Flanders classified total verbal behaviour into 10 categories Verbal behaviour comprises teacher talk, student talk and Silence or confusion.

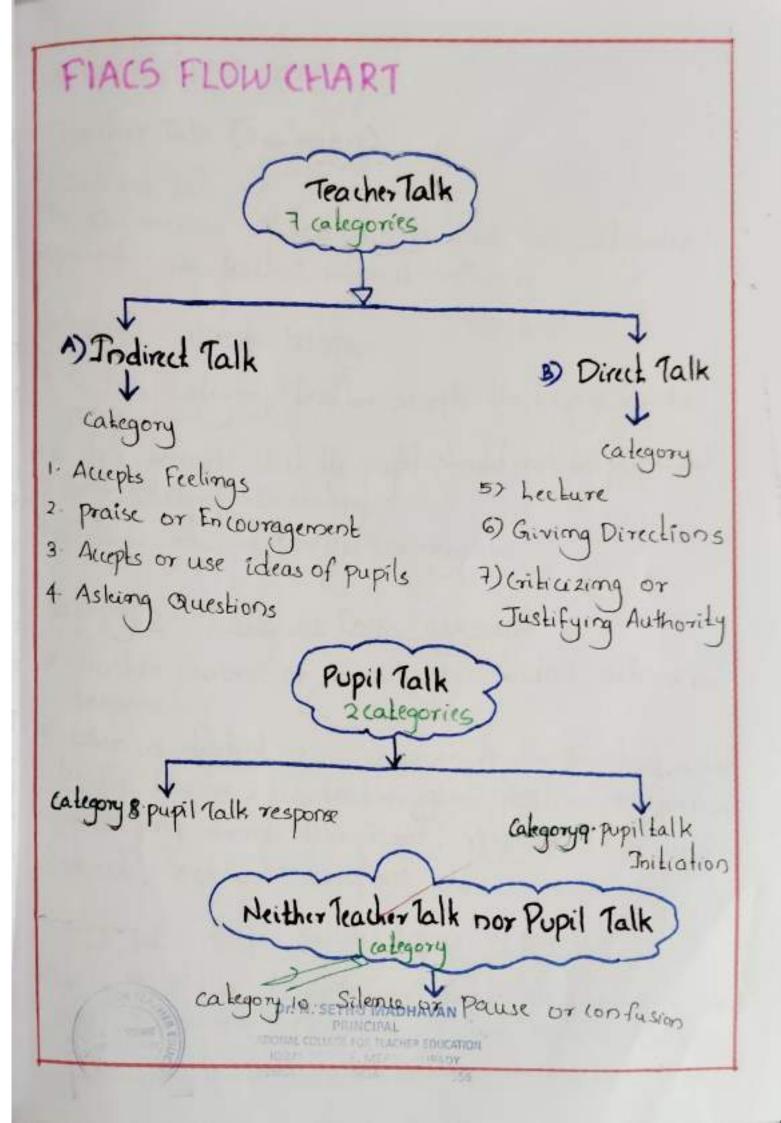
The ten categories are mentioned as under: 1. Teacher Latk - 7 categories

2. pupil talk - 2 categories

3. Silence or confusion - 1 category

Thus the first seven calegories include Leacher talk. Next two calegories include pupil talk. The last tenth category includes the small spans of silence or pause or confusion. The First 7 calegories or leacher talk has been bifurcated into a) indirect talk b) direct talk.

Dr. N. SETHU MADHAVAN PIUNCIPAL TOWAL COLLEGE FOR TEACHER EDUCATION ICHAL SOUARE, MEPRATHUPADY CHEOLA PERUMINAVOOR - 683.556



MEANING OF VARIOUS CATEGORIES 1 Teacher Talk (Fcalegories) A) Indirect Talk To this method of analysis, the first four calegories represent the leacher's indirect influence calegory 1: Accepts Feelings * In this calegory, heacher accepts the feelings of the *tk feels hiroself that the pupil should not be published for eahibiting his feelings * Feelings may be positive or negative Calegory 2: Praise or Encouragement * Teacher praises or encourages student action or behavior * When a student gives answer to the question asked by the teacher, the teacher gives positive reinforcement by Sorying words like 'good', 'very good', 'better', correct', 'excellent', 'carry on' etc. Category 3: Auepts or Uses ideas of Pupils *Il is Just like 1st category. But in this category, the pupil ideas are accepted only and not his feelings

* If a pupil passes on some suggestions then the leacher may repeat in nutshell in his own style or words * The Leacher can say, " I understand what you mean etc. or the leacher clarifies, builds or develops ideas or suggestions given by a student. category 4: Asking Questions * Asking question about content or procedure, based on the teacher Edeas and expecting an answer from the pupil * Sometimes, Leacher asks the question but he carries on his lecture without receiving any answer. such questions are not included in this category B) Direct Talk. · Next 5th to 7th categories represents the teachers Category 5: - Lecturing / Lecture * Giving facts or openions about content or procedure expression of his own ideas, giving his own explanation or citing an authority other than a pupil Calegory 6: - Giving Directions The teacher gives directions, commands or orcless or initiation with which a pupil/student is

expected to comply with, - Open your books. - stand upon the benches. - solve 4th sum of exercise 5.3. Calegony: 7: Gilicizing or Justifying Authority * when the leacher asks the pupils not to interrupt with foolish questions, then this behaviour is included in this calegory. * Teacher's 'what', and why' also come under this 2. Pupil Talk (2 categories) Calegory 8: Pupil Talk Response * It includes the pupils talk to response to teacher's talk * Teacher asks question, student gives answer to the guestion. Category 9: pupil initiation * Talk by pupils that they initiale. * Expressing own ideas; instituting a topic, freedom to development openions and a line of thoughts like asking questions; going beyond the existing structure 3. Silence or Pause or Confusion (Icalegory) calegory 10 - selence of Pause or confusion * pause short periods of silence and period of confusion in which communication cannot be understood by the observer

CBAL SQUARE, MEPRATHOPADY

CONSTRUCTION OF INTERACTION MATRIX observations 10, 4, 8, 2, 5, 6, 9, 7, 5, 1, 3, 6, 5, 5, 1, 2, 3 8, 7, 9, 1, 8, 2, 5, 6, 4, 4, 2, 1,10 Pairs (10,4) (4,8) (8,2) (2,5) (5,6) (6,9) (9,7) (7,5)(5,1)(1,3)(3,6)(6,5)(5,5)(5,1)(1,2)(2,3)(3,8)(8,7)(7,9)(9,1)(1,8)(8,2)(2,5)(5,6)(6,4) (4,4) (4,2) (2,1) (1,10) Interaction Matix Table A-LA Category V V V V \checkmark Dr. N. SETHE MADHAVAN 3 THE COURSE IN SCHER DUGTO Total

OTRACIONAL INTRAMINAVUOR - 683 556

INTERPRETATION OF INTERACTION MATRIX 1 Teacher Talk. Ratio/ Percentag of Teacher Talk (TT) $TT = C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 \times 100$ N 4+4+3+3+5+3+2 ×100 24 ×100 = 82.758 2. Indirect Teacher talk Ratio (17T) $17T = \frac{C_1 + C_2 + C_3 + C_4}{N} \times 100$ 4+4+3+3 ×100 $=\frac{19}{20} \times 100 = 48.37$ 3. Direct Teacher Talle Ratio (DTT) DTT = (5+(6+ 67 ×100 5+3+2 ×100 =10 x100 = 34.48 THU MADHAVAN PRINCIPAL TODAAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MEPRATHUPADY VENGOLA PERUMBAVOOR - 683 556

+ pupils Talk Rahio/ porcentage of Pupil Talk (PT)
PT =
$$(a + back x 100)$$

 $3+2 \times 100$
 $3+2 \times 100$
 $3+2 \times 100 = 17.24$
s silenu or (ordunion Rahio (sc))
 $Sc = \frac{4}{29} \times 100$
 $\frac{100}{29} = 3.44$
F. Podbreck and Direct Rahio (f/b)
 $\overline{D} = \frac{c_1 + c_2 + c_3 + c_4}{c_5 + c_6 + c_3} \times 100$
 $\frac{4 + c_4 + c_3 + c_4}{c_5 + c_6 + c_3} \times 100$
 $\frac{1}{20} \times 100 = 140$
Dr. R. STRUMENTS
Prodenation

ADVANTAGES OF FIACS

It is an effective tool/instrument to measure the social-emotional climate in the classroom. 2. It is also used for in-service teachers. 3. It provides feedback to the pupil teachers. 4. It is an objective and reliable method for observation of classroom leaching. 5. It is mostly teacher talk oriented. 6. It is used to compare the behaviour of teachers 0. different age levels, gender, subject etc. 7. It is much usefull in microteaching and team teaching.

LIMITATIONS

1. Il consumes much time in preparing LOXIO matrix without which, interpretations are not possible.

2. Less allention has been paid Lowards pupil-talk

3. The observers have to be trained inorder to code comectly.

4 classroom interaction of pupil type is not considered

5. The system of coting and decoding procedure very difficate and expensive and decoding procedure very

CONCLUSION

In Flanders Interaction Analysis the leacher talk is more, so the teacher is more acitive. The indirect influence of teacher is more than its direct influence.

The students are also active like teacher and it can been from their percentages, periods of sulence and confusion relativity to which may be considered negative

References

. https://: images app google/ wosomithom & 130 NW76

- · http:/// NNW. Flide share.net/deivamuniyad/ Flanders-interaction Analysis-system
- · https://www.adda 247.com/Leaching-Jobs-ceand Flanders-interaction-calegory system/amp/



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NATIONAL COLLEGE FOR TEACHER EDUCATION iqbal square, vengola, perumbavoor, ernakulam dist., pin 683 554

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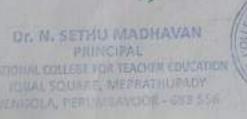
PRACTICAL ON

EDU 107-1 STUDY ON PREVAILING PRACTICES DE RESPECTIVE B.Ed. COURSE 20 - 20 ELECTIVE COURSE IN SCHOOL .

> NAME ANIAMIKA: N.S. OPTIONAL SUBJECT Physical Science REG. NO: 2332.40114.389 YEAR 2023-2025 Certified that this is a Bonafide record of practical Work done by the trainee during the year 2023-205

Dr. N. SETHU MADHAVAN PRINCIPAL Principal mona college for teacher toucanon IOBAL SQUARE, MEPRATHUPADY JUNIGOLA, PERUMBAVOOR - 623 555 Submitted for the Practical held on

Semester-1 Asludy on Guidance and Courselling cell in Government Girls Highersecondary School Perumbaroor



SLIO	TOPIC	PAGENO	REMARKS
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Dr. N. SETHU MADHAVAN PRINCIPAL INFRONAL COLLEGE FOR TEACHER EDUCATION FOBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 556

INTRODUCTION

Guidance and counseling play a protal roles En Supporting Enclividuals Theory lifes challenges and transitions. Rooted in understanding, superty, and expertise, these fractices aim to empower individuals to mavigale personal, cacademic, and carrier related decisions. By fostering &J-avacences and providing valuable insight, guidance and counseling contribute la holistic development, helping people build resilience, and make Enformed choices con their journey towards fulfilment and well being. In the educational landscape, quidance and conseling serve as integral fillars, officing aucial support to students as they navigales to the Complexities of academic personal and social development. School based guidance programs are designed lo nurture students holistic grown, poriding a frame work for addressing challenges making informed decisions, and fostering a frost five barning onvisonment. Theough a collabo These his gram strive to empower students with Skills and knowledge needed for their success

NEED AND SIGNIFICANCE

Guidance and counseling filey a cureral rale in personal and academic development. They provide Support for individuals in making informed decisions about education, career, chaires, and hersonal challings. This process helps enhance self-awareness, resilience and goal setting, ultimately contributing to a more fulfilling and successful life. It assests individuals in understanding theoselves belter, fostering self accounter, and developing a positive self-concept Guidance supports individuals in explosing causes options, understanding market bends, and making in joined career choices valigned with their skill and intests counsding provides a Sak space for individuals, lo cipiers candmana ge their emotions helping them when she anxiety, and stree mental health concerns. It equips the condividuals with problem solving Skills, helping them tackle challings and make getive decisions. Guidance and counselling an essential for pressure academic and carees develop ment, officing support and looks for individuals to mavigate lifes complexities succesfully

OBJECTIVES

* Foster Dell-awareners, Dell estern, and emotional well being. * Develop gertive decision-making and problem solving decills. * Provide individuals with essential lif & litels and * hersonal and academic gats, encouraging motivations and fusistance. * Helping Students navigale teansitions, such as moving from one grade les another or hansitioning to higher education, by providing guidance and Support.

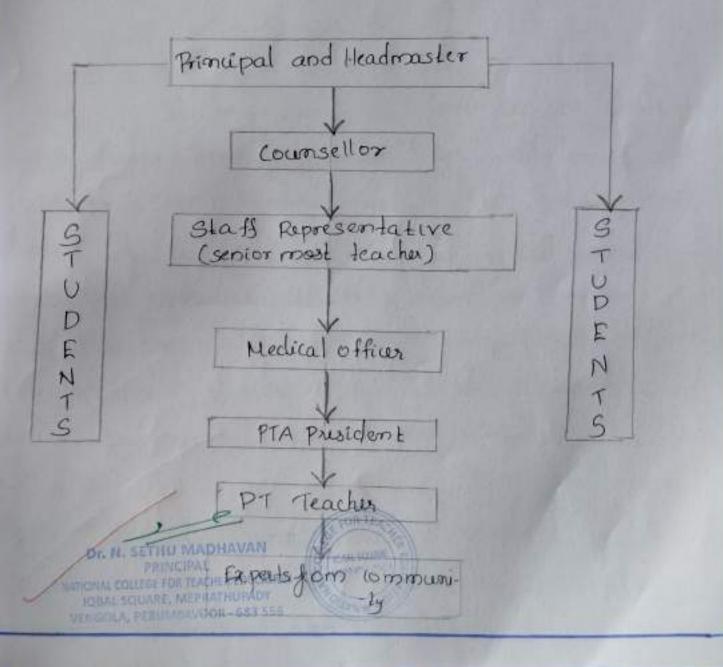
PRINCIPAL PRINCIPAL PRINCIPAL COLLEGE FOR TEACHIR (DUCATION DUAL SQUARE, MEPRATHUPADY THEOLA, PERUMBAYOOR - 683 556

SCHOOL GUIDENCE COMMITTEE The compositions of the school guidance committee Encludes : -* The principal or Headmaster:-The frincipal or headmaster of the school should be the The frincipal or headmaster of the school guidance committee chairmon or chairposon of the school guidance committee * Counsella:-The School coursellor or guidance master act as the Secondary com government of the School guidance committee. Committee. * Staff representative :-The series leacher of the school act as an eroffice member of the school guidance committee * Hedical officer :-The medical officer of the school act as a member of the school guidance committee * PTA momber --PTA monthes should be cart as the member of the School guidance committee OF FOR FEACHER EDUCATED BAL SOUGHE, MEPRATHOUNADY

* physical education baches:should be act as a member of school guidance commiltee

Fue experts in different fields:-Avaliable in the community should be a hast of School quidance committee.

ORGANISATIONAL STRUCTURE



The organization of quidance service is not the major responsibility of any one preson racher et is the joint responsibility of the head master. The counsellos, the cares master, teacher, cares admini States, specialist and commenty members. They have to filmy troportant role for making any guidance programme in the school a grand Sulley

REPORT

We, students went to Perumberrood Government Giels Higher Secondary school, on 30/10/2023 at 12:30 pm. This one visit helfores to lonow more about the Grend and Lounselling cell and what their activities. It has been undustood that guidance and counselling is essential in every school working days to the school quidance and counselling teacher war avaliable he were able to interact for many hours. No properly the Audent coursellor of the show the leacher had given us a detailed

description about the activities that have been done there in filture. The counsellor had given us our side. courselling & given to children who are backness in studies and children sugaring for various physi cal and montal fuebloms or fursures The counsellar added that by giving counselling on this way positive changes are seen in the children. I get very happy when heard the counselles arsund that the school courselling cell will controllow to work beltes in fullie Dr. N. SETHU MADHAVAN PRINCIPAL **HATIONAL COLLEGE FOR FEACHER EDUCATION** IGBAL SQUARE, MEPRATHUPADY

ola, Kenala, India • JBR, Mignathapada, Vengela, Iseala 803656, India 10604034 76.4657201



SUGGESTION

* The counselling soon seemed to be lack of highersonal touch. If the room settling is improved, the counselling will feel to improve * Sometimes the lack of people education on the fait of the children's fraints hinds the revolution * Insome case the guidance teacher may be unable to give a sense of belonging * There is high risk of getting too firsonal. * Il was fell that it would be good to give group counselling to the children of each section at least one month * Ropa du cation and training should be given to Counsellos.

CONCLUSION

Guidance and counselling in school flay a Guidance and counselling in school flay a Guid sole in fosteing students academic, personal social development. These services provide valuable support for skudents facing challenges, helfung them make informed idecision about their education and future. Effective quickance and counseling contributes to a positive school environment, enhance student sole being, and ultimately contribute to academic succus Organg efforts to strongton and integrale these services can lead to more confident, resilient, and well pupard includuals as they mangate their educational journey and beyond.

REFERENCE

https://www.slidesshare.net https://www.lead.acaderg.org

Dr. N. SETHU MADHAVAN PRINCIPAL MANDHAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MEPRATHUPALIY IOBAL SQUARE, MEPRATHUPALIY



NATIONAL COLLEGE FOR TEACHER EDUCATION

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NAAC ACCREDITED



RECORD ON

EDU 107.2, 206.2, 302.2, 404.2 (OPTIONAL) B.Ed. COURSE 2023-20 25

NAME Anamika NS.

Principal

optional subject physical science,

REG NO: 2332 4011 43 89 YEAR

Certified that this is a Bonafide record of practical work done by the trainee during the year 20 -20

h charge

Submitted for the Practical Examination held on.....

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Teacher in Charge

CRITICISM LESSON PLAN

Dr. N. SETHU MADHAVAN PRINCIPAL NATIONAL COLLEGE FOR TEACHER EDUCATION IQBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 583 555

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CRITICISM LESSON PLAN -1 Standard : X GENERAL INFORMATION Stringth 10 Name of the deacher: Rameesa. Inhan CK Date : 11/1/2024 Norme of the school : National college for Teachereducators usiet: Electromaconone inductors Topi : Self induction, Inductor content Ovaview anoted 2nd ward, 2nd was d Contont Analysis a) symbols :- AC, DC, V, W, emf 3) Formula : Nil) Tume antotal and was solar, 6 (water end, การส่า end, and wasshed (2 () การสาว การ การ 20 d) Facts: Dr. N. SETHU MADHAVAN PRINCIPLE IN 2010 Self induction and 2000 DI 0307 CMJ VENGOLA, PERUMBANDAN DE DATA 2002 MAR 6(210)00 emp má 20023 ചിച്ചു പബ്ദ്വൂത് ധാനപിലെ ഭാറ്റത്തെ എത്നുക്കുന്നു

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the fufuil durchops successifier attitude and fame positive attitude towards science. 9) Attitudional do main The fufiil " copplies and get positive altitude taxade science and science teachers • Express their personal feelings in constitute way Specific objectives · Develops coopsettive mode 3) Application document The pupil applies the required knowledge cane) Stells in near Situation Specific objectives The perfil • റെസൽവാ ഇൻഡ ക്കാന്റെ മുറ്റ ഇൻഡ് ട്രിന്റെയും ഉപയോഗ നിര്വാജി മിത്രത്തിൽ വിശ്നാണം തലയ്യാന് · 2 nd was to 2 allewind Learning strategies Lecture, discussion, experiment, demonstration 107 Subjective realities principal on 23) po 2000 month ory will morning of principal and and and another and and another another another another another another another another and another anothe MUSIC Naphersola, PERUMBERSON 256 amores 2300 amores 23000 amores 12000 amores 1200

Learning Resources chart, pictures, amledobelegesch, 212070600, opping on com Precuations aavijon zuernenar werden claus room Transaction Process cand activity Response. Sonsiboration Participation in Activities Teacher mes elle sons smillers anymp 3/3/003 apagood 200020 6000000 with a wight algares armo am 2 h) cars or (m). As BaylogBBBIGO 2m 30 mg/anog 12010 82 3000 mg. Shay to afg ass massarond apper ഒരു പരിക്കണാ തലയുറൻ തമുറ്റാണോ എന് 210/20mo sagante BENDY ചോടിക്കുണ്ടു. സോടിനോപ്ഡ്, ചാച്ചിരുന്ന്, ബാറ്ററി, Oraby. മാ ഗണ് എന്നില് എടുത്ത കൂട്ടിക്കെ താണിത്തിനു. അത് 2125 and an ton Barbar Donstorm. ampto Acelo മറുന്നിൽ DC 20 തൊടുക്കുന്നു. എന്നും പിച്ച അതുക്കി 300025 anstand and and and falleron miton and the state and and and and another 2 muston 2 2 the Chippen and Par

Activity-1 Polores gainel താനു കൊടുത്ത രണ്ട് പറിക്ഷണങ്ങൾ നിരിക്ഷിങ്ങുക ිදිනැකි ගොඩා දිගාන්තුව 200 නාඟනාකාන් 202 ඔහුගොඩ හි හිතුව AGOC 20milanogox 3)3W 2000 00000000000000000 GVDC annieron of garden (a) GVAC a) എന്ന് നസ്തിട്ടിയെ ബൾബിനാണ് (പതാശ തിവ്രത) പ്രതിയത്ത് (പതാശ തിവ്രത) 39000) 2E ญามี?. 5) എന്ത കൊണ്ടാത്ത് (2100 കി(2100 ക്ലാജിന്നത്? 3. Shills acqued c) අතර බහාර්තාවි වාහර (හාපි) හොත් ഡിනු 26980 ආකාම 2000 දිනාවේදිනාවක් ? gated observation & hill acqued azig. 60 pusation achons. ര്ക്ക്ക് ചിട്ടാർ ചന്താരുതി ിരണ്ടാമത്തെ തസർക്കിട്ടിൽ (പങ്കാശതി(ചത ക്യാമാണ് ලුදුර නොදැවී. අනෙත පිළිවෙ 5) Grando AL BARDON PO25 (000) 33330. AL 2002 De MOREN (2000) 2000 - AL 2002 BBB 2 Dral Block a Barrow opine original 206 Domie amand alstan GN 23 Cmanum -636 more sons exponsion

Activity -2 4) performance and റെവച്ചുക്കാ ന്തിക പ്രപരംഗതത്തി ത്തിന്റെ monitar Preservations ത്തിൽ പ്രാർത്തിന്റെ എത്തെങ്ങിലും അറ്റ മേക്തത്തെ 33346 gps (210/10 9912 ത്തതിന്റെ (ചധനനഗത്ഷം 2000 വരുമായത് ത്തനത്തിറ്റം നന്നുക) on tonota and consolidation ideas (2 untramage mup 2 പക്ഷാഗാ - ശബ്ദതരംഗങ്ങളെ തബദ്വസി (n ef കിട്ടാക്ക് ക്ക് താറുത്ത് മിറ്റി അസിക്കേ പിടിതമുടുങ്ങുണ്ടു (wm szere :- walao, monosmo, cuzen cozer) Recordings & forchog താന്തിക മണ്ഡധത്തിൽ സമിതി ചെയ്യുന്ന പോയ്സ് കേയിൽ 2 mint 25ml 20 man alle soleworthon where with the municipal and Children Law LU Par all contro a 10 20.20 conner angela go whong to 200 mgg 02623X1 93/36635 29 porto of milorato -AB&Balzonto will 200 Dr. H. S PEINCIPAL TAVAN INTIONAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MERRATHURADY VENGINA, PERUMPAYONA

2

Activity a 1) Poltplo തന്നു തിട്ടുള്ള പലിൽ എത്തെന്നുക്കാണ് തസൽഡ് energe confections por (2) valaming a loss Jonuary 11 202400 (ஆயக்கர் ஆறைதல் வைதல் வேற்றிலும் (குல் விலை) ontobio Dorbaussons, 2nd wassor 2 port 262 പ്രചാർത്തനങ്ങളും 22 Bromoosch കുറിഷ് ത്താൻ onvoir anoun ഭാണ്യത്. എനിക്ക് ത്നതിച്ചിച്ച സമപത്തി Besto 2000 Topic නතාත් අමු මින්නේ 22 Bromosod Two Reed ward (2)21000000 onvotro and ward Dong lesson plan at oznavo so 3 0333 87 27 A) 20023 Zomenad ිසේ නැගෙන දියාරිං 20000 8335000 のシンろからっきりえるみ as a gana grand grand Dr. N. SETHU MADHAVAN PRINCIPAL **INTIONAL COLLEGE FOR TEACHER EDUCATION** IOBAL SOUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 556

Revice Questions 1)2 monoris 2200 us so

?) വിവിധവിനാ ഇൻഡട്ടറുദൾ ജ്യാതാങ്കാ? 3)എക്കാനമാടെ ക്കു ഇൻഡട്ടർ (പവർത്തികുണ്ട്.

Extended Activity

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2) R എപ്പെറ്റൊത്തായാണ് ഉപപോഗിക്കുന്തു 3) മിടുകളിൽ ഉപപോഗിക്കുന്ന ഡാബി എന്താണ്?



Dr. N. SETHU MADHAVAN PRIMCIPAL UNTONAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMILAVOOR - 683 556

CRITERIA FOR EVALUATION

Name	of the Teacher : Ramee	se Jahan.	ck			
Name	of the School : Natio	nal college	for	Leacher	education	0
Date	: 20/12/21	083 U				
Unit	: Electro	magneti	In	luction		
Submit	: But-	inclustion	Trol	uchar		
SI. No	Criteria	Very Good	Good		2 Satisfactory	Poor
1.	Lesson Planning	\checkmark				1.001
2.	Introducing a lesson		~			
3.	Scope for Creativity	~				
4.	Stimulus Variation	~				
5.	Black board work	~				
6.	Reinforcement	~				
7.	Skill of Questioning		\checkmark			
8.	Learning Materials	~				
9.	Group Activity	\sim				-
10.	Class Management	\checkmark				
11.	Communication	\checkmark				
12.	Concluding the Lesson	\checkmark				
13.	Content Mastery	\sim				
14.	Teacher Personality	~				
ANT -	Remarks	68	8	/		1
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NATIONAL COLLEGE FOR **TEACHER EDUCATION** IQBAL SQUARE, VENGOLA, PERUMBAVOOR, ERNAKULAM DIST., PIN 683 554

(AFFILIATED TO MAHATMA GANDHI UNIVERSITY & RECOGNISED BY THE NCTE) NAAC ACCREDITED



PRACTICUM ON EDU 105-17 LEARNING TO FUNCTION AS PHYSICAL SCIENCE TEACHER

B.Ed. COURSE 20 - 20

NAME ANAMIKANS OPTIONAL SUBJECT . PHYSICAL SCIENCE. REG. NO: 2332 401143.89 YEAR 2023-2025 Certified that this is a Bonafide record of practical Work done by the trainee during the year 2023-2025

Principal

Faculty in charge

Submitted for the Practical held on

Dr. N. SETHU MADHAVAN PRINCIPAL

QBAL SOUARE, MEPRATHUP, DA

AL COBLEGE FOR TEACHER EDUNATION

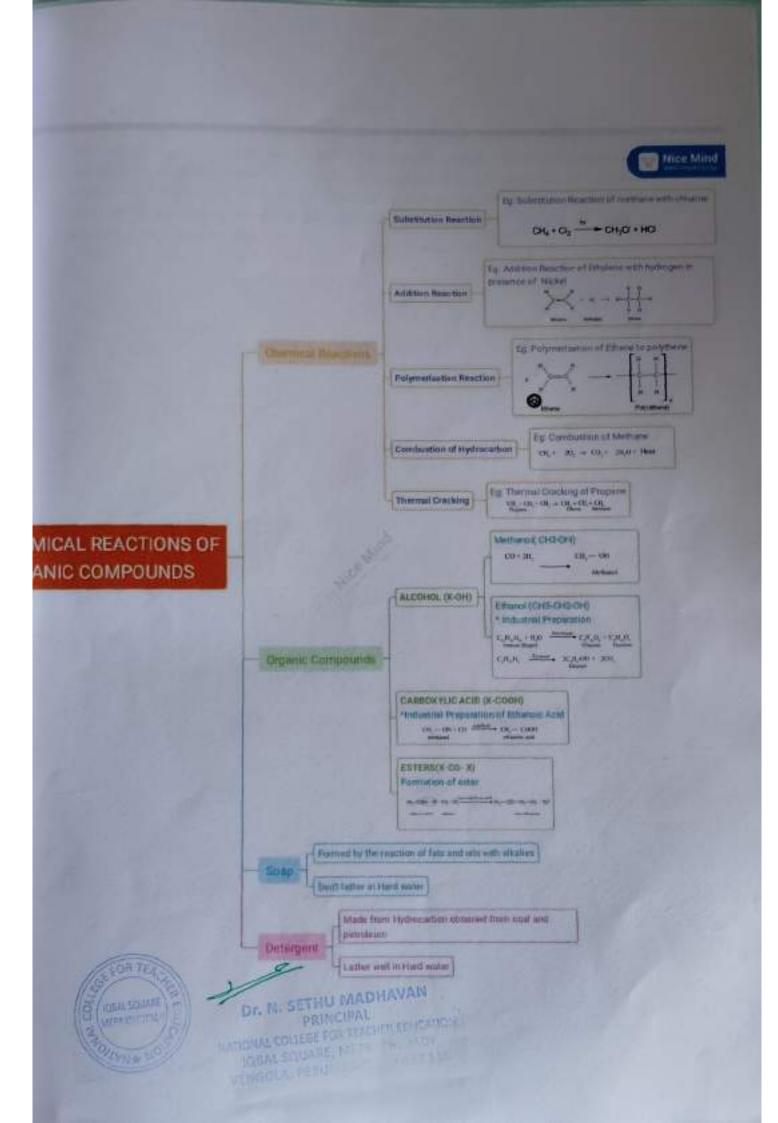
INTRODUCTION

A concept map is a visual representation of knowledge that depicts relationships between various concepts or ideas. Typically used in educational settings, brainstorming sessions, or for organizing complex information, concept maps serve as graphical tools to illustrate how different pieces of information connect and interact with each other. Nodes on the map represent individual concepts, while lines or arrows indicate the relationships or links between them. This visual structure not only aids in understanding the hierarchical structure of information but also enhances memory retention and facilitates the process of learning by providing a comprehensive overview of a subject.

The creation of a concept map involves a thoughtful process of identifying key concepts, determining their relationships, and organizing them in a logical manner. As an effective tool for both teaching and learning, concept maps encourage critical thinking, stimulate creativity, and promote a deeper understanding of complex topics. Whether used in academic settings to outline a lesson plan or in business environments to strategize and present ideas, concept maps offer a versatile and powerful means of representing and organizing knowledge.

Dr. N. SETHU MADHAVAN PRINCIPAL NATIONAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 556





REPORT

As part of B.Ed. curriculum, trainee prepared a concept map using the Mind mapping app The concept map was about the chapter 7 'Chemical Reactions of Organic Compounds' of standard 10 Chemistry textbook. Concept maps are crucial in education as they visually organize and represent knowledge, fostering a deeper understanding of relationships between ideas. They promote active learning, helping students connect concepts and enhance critical thinking skills.

DT. N. SETHU MADHAVAN PRINCIPAL HATTOMAL COLLEGE FOR TE VOHER EDUCATION IGBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBANDON - 683 556



NATIONAL COLLEGE FOR TEACHER EDUCATION

IGBAL SQUARE, VENGOLA, PERUMBAVOOR, ERNAKULAM DIST., PIN 683 554

(AFFILIATED TO MAHATMA GANDHI UNIVERSITY & RECOGNISED BY THE NCTE)

NAAC ACCREDITED



RECORD ON

EDU 107.2, 206.2, 302.2, 404.2 (OPTIONAL) B.Ed. COURSE 2023-2025

NAME Arappika NS

OPTIONAL SUBJECT

Principal

REG NO: 2332 4011 43 89 YEAR

Certified that this is a Bonafide record of practical work done by the trainee during the year 20 -20

in charge

Submitted for the Practical Examination held on.....

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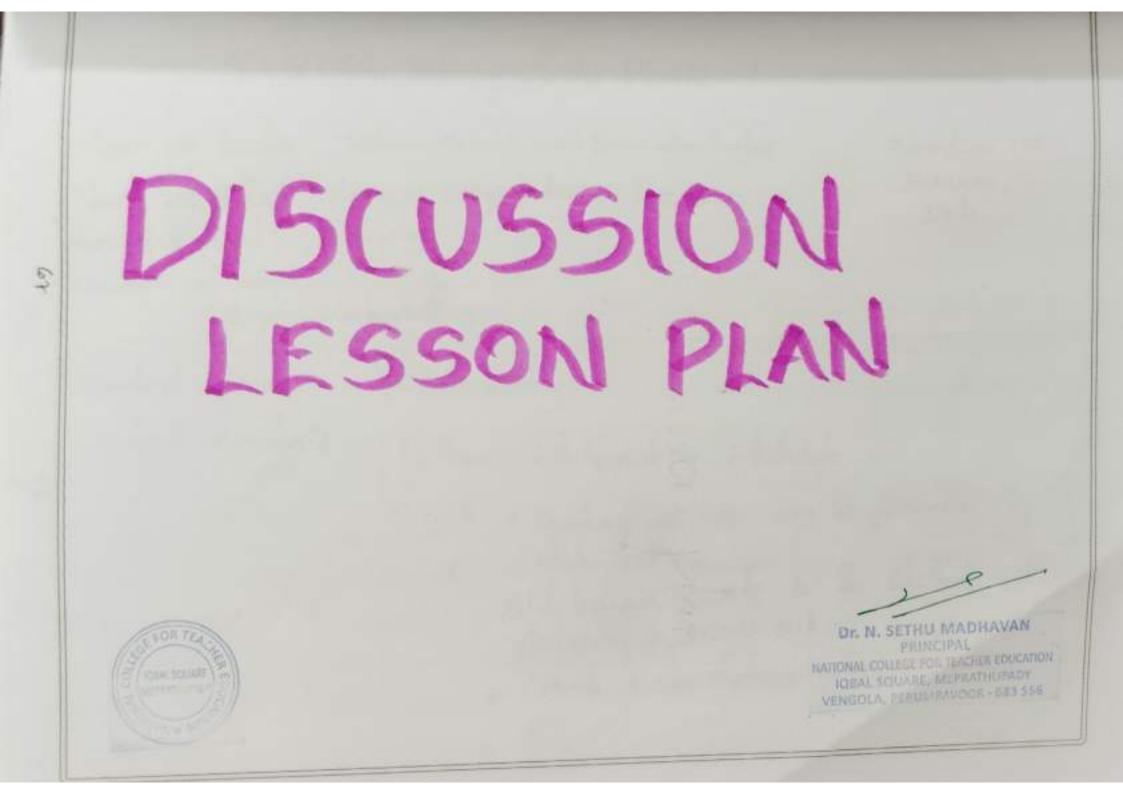
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	SEMESTER-1	The second		
1	Mileo heaching	1/11/2023	3-12	
2	Marokaching skills	2/11/2023	13-16	
	Skill of stimulus variation	+r.	osuit	
	Skill of Questioning		Contral I	131
	Skill of set induction	и	-0-11	
3	Meusleaching lesson plans		17.)
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	Microleaching leson dan on skilferet Induction	17/11/2023	26-29	
	Teach lesson plan on Skill of alushoning	19/11/2023	31-36	100
	Retrach loson plan on shill a questioning	20/11/2023	35-43	by
6	Reflective Journellong	20/11/2023	45-46	1/1
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	SMESTER 2			
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	Discussion Lesson plan-2		29-9	14
	Piscuesion Lesion plan -3		92-10	3 900
	Riscussion Lesson phro -4		104-11	3
	Discussion Lesson plan -3		119-12	2
	Vocusius annigan >	1		
	Demonstration lesson plan -1		125-1	30 9
	Vancostation lesson plans		184-1	304
	Demanstadors 1996, photoson (insal source	1	140-10	17 9
	The second concept of the PADY	AV.	145-1	56
	Jamustation lesson plan-5	2	159-1	4
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Teacher in Marge

TABI	E	OF	CON	TENTS	2
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SL.NO.	торіс	DATE	PAGE NO.	REMARK
	Observation Report		169	
	Observation Report Certificient lesson plan-1. Criticism lesson plan-2 Criticism lesson plan-3 criticism lesson plan-3 Criticism lesson plan-5 criticism lesson plan-5 Criticism lesson plan-6 Reflective Journal		169-178 180-192 193-203 209-303 309-602 3925-323 324	y az
ATIONAL C	SETHU Mª DHAVAN PRINCIPAL OLLEGE FOR TEACHER EDVICATION SQUARE, MEPRATHUPADY L PERUMBAVOOR - 683 556			
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	Sand Ball			
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	A second se			

Teacher in Charge



DISCUSSION LESSON PLAN -1 Name of leacher: JEshama Shemin and Bismitha Basher Blandard MII Duration Name of School National college for leader education Date Name of Subject : Chemistery Marrie cog unit nope: Electroplating content ovariew E. lectoglating content Analysis a) Term: 5 lectropating, Electrolyte » Facts: * Rusling of tion can be prevented by electroplating. Afflectionsis amade às the electrode where electricity is moves out * cathode & the electrode where electricity is given out * Electrolysis can undergo chemical change

3

(encept: *Filedeolysis - is the fracces in which a substance undergo decomposition * Anode is the electrode where electricity moves on to reachade is the electrade where electricity moves onto * Electolytes are substances which undergo chemical change when electricity is passed through them. * Exclegic seactions are seaction which liberale energy * Endoesgie reactions are reactions which absorbs energy. * Electiochemical reactions are those reactions which occurs by the passage of an electric current of absorption of electric current * Electrochomical cells av identies that ean generale electrical onergy for the chomical reactions occurring in Dr. N. SET VIPRILI COLLECT FOR THAT HER EDUCATION IGBAL SQUARE, MERATHORADY VENGOLA, PERUMBAVOOR - CER - SA

n knowledg domain: The pupil acquires knowledge and understanding of the above mentional jucker, cencepts, terms, definitions, equations, related to the topic. Learning objectives Specific objectives: The furfiel * recognizes electro lyles * Accornizes anode and cathode 2) pour Domain The pupil develops proces skill required to develop the knowledge and understanding of the above mentioned terms, facts, concepts specific objectives :- The pupil * Observer the colour change in Cuso4 * Analyse the chimical change * understands electro lysis.

3 Geativity Domain The pupil develops creative abilities related to the Specific Objectives :- The pupil * Develops creative abilities related to chemical change * Develops inventionary mend 4 Altitudiora Domain The people develops scientific altitude and from positive valitude tonarde science. specific objectives :- The pupil * Get positive altitude towards surence and dience * Deve lops coopeeation between students. * Leasning by doing can be employed. 5 Application Roman The pupil applies the sequired browledge, and skills Serific objectives . The furtil learning strategies ale troptationer for * Applies learning strategies ale troptationer for Varational purpose

* use electroplations for educational pupper

Loarning Strategics

Lochenning idomenistration, group discussion, expriment,

GE

Subjective Realities Pre conseption Pupil have heard about electroplating in gold ornaments Learning Resources Teaching aids Blackbard, chart Chemicals EUSQ solution Beaker, Roob, Wires, Battery, Switch Agracatus Take care while using chemicals and electronity on wan Precuations LATIONIAL COLLEGE FOR TEACHER EDUCATIO HABAL SQUARE, MARPIL THUPATY Contraction and the state of the

CLASSROOM TRANSACTIONS Process Activity Kuponse Sonsition :-Teacher enters the class with a pleasent smile and wishes the students and ask students you call have observed the wood beginning what are the changes happening behind it? Have you thought the reason behind it? so today we are going to study about different 12 chemical changes Activity. 1 Teacher asks the prepril to classify changes when nature into physical change and chemical change. Riscussion paints 2 List and classify them into grysical and chemseal changes? SQUARE, MEPRATHO TEATTON & DEDUTARDANDA

consolidation of data 1) water changes into water rapour Rusting of inen. chemica change 2) Physical change · water changes into · Rusting of iron · Burning wood · Melting of wax · Explosion , of unchees Activity -2 Teacher demenshates an experiment to study electolysis Take (150, Solution in a beaker with the help of caston rods, let the electricity parsed through the solution Dr. N. SETHU MADHAVAN > Casbon rocks > Nac . Aution

Discussion points Instat de you deserver what type of reaction ?. >) which form of energy is responsible for the chang you observe 3) what is your infectice? Consolictation of Ideas ? 2 Theolous change occured in (USO4 solution is Endothermic reader The apples Sulphale is conised in aqueous solution. EUSO4 ~> (u"+ S Al cathode : Gitter > Cu At Anode: lu -> lu2++2E 2) Electrical energy. > (sq decomposed with electrical energy and wordings dow things IQBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 550

Activity - 3 Teacher introduces example for electrolypis. Take Na (1 solution in a beaker add to it is ju adops of filend phthalin with the help of 2 carbon rod, let the electricity frazzed though the solution. T > Castorn rods Nall solution Discussion points I what do you observe ? 2) Walte down your infance? consoluciation of ideas 1) colour change occerry 2) No (1 decomposes into x1a & CI Dr. N. SETHU MADHAVAN IGBAL SCUARE, MEPRATHUPADY VENIGELA, PERUMBAVOOR - 523 55 anall -> Nat Cla

Review Questions) A coludert tries to flate Tron with copper about its avan greent by selections the required materials from the last given below; Silver nitrale, Ison male, (usq, Silver rod, copper rod, Silver filale, non Sulphale, battery, wire, beater 2. Give an example each for exothermic and endothermic reaction Estended activities " weile down some examples of electropating Dr. N. SETHU MADHAVAN AGIONAL COLLEGE FOR TEACHER EDUCATION PRINCIPAL IQBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 556



Iqbal Square, Meprathupady, Vengola, Perumbavoor, Ernakulam - 683 556

KEY INDICATOR

CRITERION 2-Teaching-learning and Evaluation

2.4 COMPETENCY AND SKILL DEVELOPMENT

PREPARATORY SCHOOL ACTIVITIES

METRIC 2.4.2.D

Attendance sheets of the workshops/activities with seal and signature of the Principal

Affidavit

I do hereby certify that, all pages in this document are duly authenticated by me, under my privilege as the Head of the institution of National College for Teacher Education, Vengola, Ernakulum, Kerala

Tel : 0484 2522583, 0484 2525603 E-mail : nationalcollege09@gmail.com, Website www.nationalcellege.edu.in

> PRINCIPAL IDEAL COLLEGE FOR TEACHER EDUCATION IDEAL SOUARE, MERICATHURADY VENEOUA, PERMINEAVOOR - 683 556

Year	Sl. No.	r rogramme for teaching staff					
		Title	Date/s	Resource Person	No. of participants		
	I	ORIENTATION FOR TEACHERS	2-Aug-23	Dr. N Sethumadhavan	8		
	2	TEACHERS IN NEP 2020	23-Aug-23	Dr.Vijayan k	9		
	3	MY EXPERIENCE AS A TEACHER	5-Sep-23	Dr. M N Krishnankutty nambeeshan	9		
	4	DRAFTING A RESEARCH PAPER WITH AN IMPRINT	8-Sep-23	Dr.N K Arjunan	15		
2023-2024	5	PROSPECTS AND CHALLENGES OF IMPLEMENTING ITEP	20-Sep-23	Dr. Shakila T shamsu	12		
	6	RESEARCH METHODS	7-Oct-23	Dr. Rajeswary K V	8		
	7	GAMIFICATION IN LEARNING SCIENCE	17-Oct-23	sreeja v	7		
-	8	TECHNO PEDAGOGIC LEARNING	8-Nov-23	Jayakrishnan	6		
	9	CLASS ON SPSS PACKAGE	17-Nov-23	Dr.N K Arjunan	14		
	10	CONSTRUCTIVISM	19-Jan-24	Saranya devi	5		
	11	IMPACT OF ONLINE EDUCATION AND CYBER ADDICTION IN CHILDREN	13-Feb-24	Anjali r	8		

Workshop for students

1.4

SLNo.	Name	Resource Person	Date	No.of participants
1	Workshop on Teaching Aids	Mr.Raman Master	08/08/2023	99
2	Workshop on e-content development	Ms.Sreeja V		11

P Dr. N. SETHU MADHAVAN

PRINCIPAL LATIONAL COLLEGE FOR TEACHER EDUCATION QBAL SQUARE, MEPRATHUPADY VENGOLA, PERUMBAVOOR - 683 556







Igbal Square, Meprathupady, Vengola, Perumbavoor, Ernakulam - 683 556

KEY INDICATOR

CRITERION 2-Teaching-learning and Evaluation

2.4 COMPETENCY AND SKILL DEVELOPMENT

PREPARATORY SCHOOL ACTIVITIES

METRIC 2.4.2.E

Any other relevant information

Affidavit

I do hereby certify that, all pages in this document are duly authenticated by me, under my privilege as the Head of the Institution of National College for Teacher Education, Vengola, Ernakulum, Kerala

> Tel : 0484 2522583, 0484 2525603 E-mail nationalcollegeo9@gmail.com, Website : www.nationalcollege.edu.in PRINCIPAL

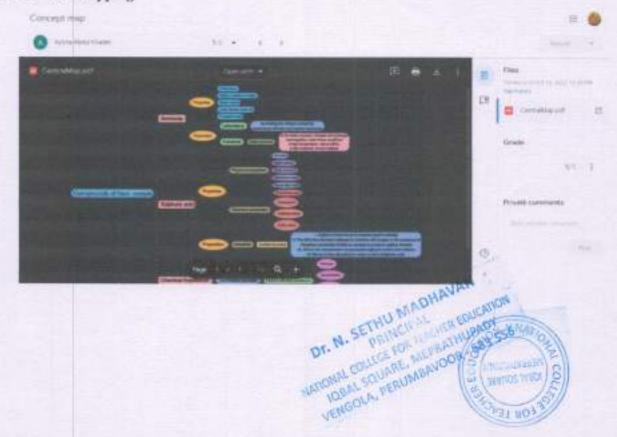
UTIONAL COLLEGE FOR TLACHTE EDUCADEM

Criterion 2.4.2 PHOTOGRAPHIC EVIDENCES

1. Formulating Learning Objectives



2. Content Mapping



3. Individual Education Plan

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4. Identifying Varied Student Abilities

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5. Dealing with student diversity in classroom

13 FEBRUARY 2024

IMPACT OF ONLINE EDUCATION AND CYBER ADDICTION IN CHILDREN



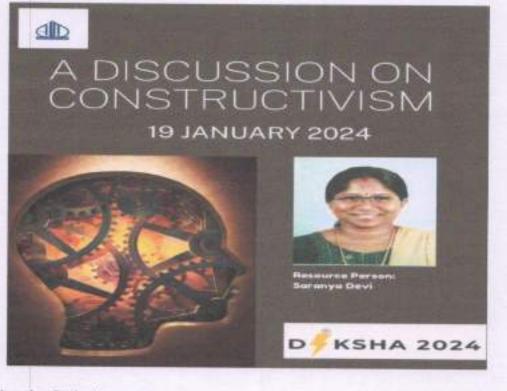
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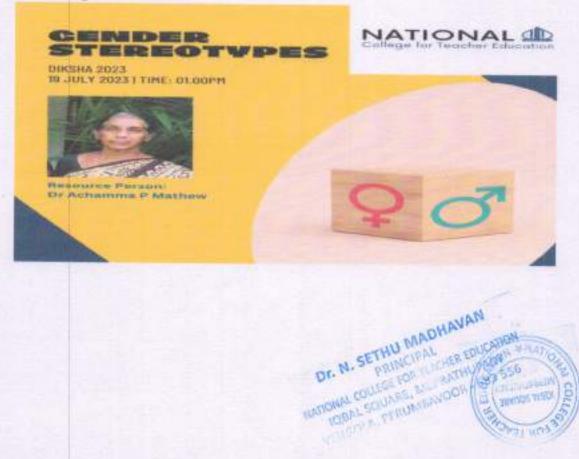


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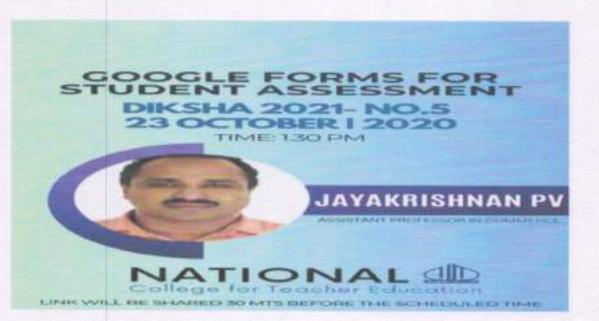
6. Visualising Differential learning Activities



7. Addressing Inclusiveness



8. Assessing Student Learning



9. Mobilising Varied learning resources



Dr. N. SETHU MADHAVAN Dr. N. SETHU MADHAVAN PRINCIPAL NORMA COULCE CONTUNING RUPADY ORAL SOLUTION DATOOR - 683 (55) CH WILL NEWTRIN TOTAL Var with



11. Exposure to Braille/Indian Language/Community Engagement



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NATIOAL COLLEGE FOR TEACHER EDUCATION, VENGOLA



VALUE ADDED COURSE

COURSE NAME: COMMUNICATIVE ENGLISH COURSE CODE: NCVAC 1205 DURATION: 30 Credit Hours



Dr. N. SETHU MADHAVAN PRINCIPAL INTIONAL COLLEGE FOR TEACHER EDUCATION IOBAL SQUARE, MEPRATHUPAOV VENGOLA, PERUMBAVOOR - 683 556 · Creative and formal writing practices

Module 4: Interpersonal and Professional Communication (4 credits)

- Strategies for effective interpersonal communication
- · Professional communication skills as a teacher
- · Classroom Interaction and Management
- Module 5: Advanced Communication Practices (5 credits)
- Advanced vocabulary and idiomatic expressions
- · Developing a personal communication strategy
- · Using English in Diverse Contexts

Module 6: Practical Application and Evaluation (5 credits)

- · Group discussions and collaborative activities
- · Peer and instructor feedback
- · Final assessment through written and oral examinations

Teaching and Assessment Methods:

- · Lectures and interactive sessions
- · Group discussions and debates
- · Individual and group assignments
- · Practical presentations and role-plays
- · Written examinations and viva voce
- · Continuous assessment through participation and projects

Reference

Mohan, K. Speaking English Effectively, Macmillan

Thakkar, P. The Ultimate Guide to IELTS Speaking, M K Book

Sreevalsan, M. C. Spoken English A hands on guide to English, Conversation practice

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Shuuja, A. A course of spoken English, A P H Publishing



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