

(A NCTE recognized Govt. Alded (WB) Autonomous Post-Graduate College under University of Calcutta) Belur Math, Howrah - 711 202, West Bengal

2.4.5 Adequate skills are developed in students for effective use of ICT for teaching learning process in respect of

- 1. Preparation of lesson plans
- 2. Developing assessment tools for both online and offline learning
- 3. Effective use of social media/learning apps/adaptive devices for learning
- 4. Identifying and selecting/ developing online learning resources

Sample evidence showing the tasks carried out for each of the selected response



Swami Vidyamritananda Principal (Offg.) Ramakrishna Mission Sikshanamandira Belur Math, Howrah-711202, W.B.



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1. Preparation of Lesson Plan:

Learning Design			
School : Uttarpara Govt. High School	Subject : Physical Science		
<u>Class</u> : x <u>Time</u> : 45 Mins <u>Date</u> : 05.04.2022 <u>Teacher</u> : Bhairab Singha (F-09)	Unit : Behavior of Gases Sub-Unit : Pressure and volume Boyle's law Charles's law Absolute temperature scale Combination of Boyle's & Charles's laws Avogadro's Hypothesis & ideal gas		
	<u>Today's lesson</u> : Combination of Boyle's & Charles's laws		

Learning Objectives :

After completing the lesson the students will be able to

Remembering	 Tell the formula of combined gas law.
	Remember that temperature should always be in Kelvin scale.
Understanding	 Understand how the formula of combined gas law is formed.
	Demonstrate the formula.
Applying	 Solve different types of problem about combined gas law.
Analysing	 Analyse how Boyle's and Charles's laws are combined. Analyse why temperature should always be in Kelvin scale in that formula.
Evaluating	1. Evaluate the problems regarding combined gas law.

The sample of a prepared digital lesson plan by a trainee teacher of B.Ed

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Creating	 Represent the formula in chart.
	Apply this formula in higher courses.

Analysing Learners and Context :

To understand the primary behavior and previous knowledge of the students the following questions will be asked:

- 1. State Boyle's law.
- 2. What is the mathematical formulation of Boyle's law?
- 3. State Charles's law with respect to absolute temperature scale.

Learning Materials :

- 1. Textbook : Physical Science & Environment, class x, Calcutta Book House.
- 2. Supporting Materials : Chalk, Duster, Blackboard, Chart.

Learning Strategies :

Learning Areas	Related Strategies
Combination of Boyle's & Charles's laws	By using lecture and demonstration method with questioning, the formula will be established. Let us suppose, amount of gas = n mole, temperature = T K, pressure = P, volume = V. Q: State Boyle's law. A: The pressure and volume of a gas are inversely proportional to each other as long as the temperature and the quantity of the gas are kept constant. Therefore, $V \alpha 1/$, when n & T are constant (i) Q: State Charles's law regarding absolute temperature. A: The Kelvin temperature and the volume will be in direct proportion when the pressure and the quantity of the gas are kept constant. Therefore, $V \alpha T$, when n & P are constant (ii) Then from (i) and (ii), it follows that $V \alpha T/P$ or, $V = k * T/P$, $k = \text{constant}$. So, $(PV)/T = k$ (iii)



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	For an n mole quantity of gas, if volume is V ₁ in pressure P ₁ and temperature T ₁ and volume is V ₂ in pressure P ₂ and temperature T ₂ , then $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$ (*)
A simple problem and solution	A problem will be presented in the blackboard and it will be solved by problem solving method.
Solution	Q: The initial volume of a gas is 6L and its final volume is 3L. Find out the final pressure of the gas such that the initial temperature is 0^{0} C while the final temperature is 200K. Moreover, 25K Pa is the initial pressure.
	A: Here, P ₁ = 25 K Pa, V ₁ = 6 L, T ₁ = 273 + 0 = 273 K and V ₂ = 3 L, T ₂ = 200 K.
	Then $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$ or, (25 * 6)/ 273 = (P_2 * 3)/ 200 or, P_2 = 36.626 K Pa, which is the final pressure.

> Design for Evaluation :

- 1. Derive the formula of combined gas law.
- 2. Why the temperature should always be in Kelvin scale in that formula?
- 3. The initial volume of a gas is 10L and its final volume is 20L. Find out the final pressure of the gas such that the initial temperature is 0[°] C while the final temperature is 373 K. Moreover, 50K Pa is the initial pressure.
- > Diagnosing the weakness for remedial class :

If students have weakness in today's lesson then remedial classes will be arranged.



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NAME OF SCHOOL- M C K Vidyapeeth	SUBJECT- Computer Science
CLASS- IX	TEACHING UNIT- Word processing
DURATION- 45 minutes	 SUB UNIT- Formatting, paragraphs Alignment, indentation, spacing Spelling and grammar Mail merge
DATE-04.04.2022	TODAY'S LESSON- All the above
NAME OF THE TEACHER-	
Sourabh Kumar (F-27)	
Learning	goals / objectives
-	ised Bloom's Taxonomy)
	e learner's can be studied under different domains of tives, as follows:
 In MS word paragraph is any text which press the enter key on the keyboard. V 	 Remembering: h end with a paragraph mark. These are created when we Ve can see the hidden characters such as the paragraph oper right-hand corner of paragraph group.
 Understand the various formatting fe documents that suits the definite purpose Create grammatically correct documents grammar feature of MS Word. 	Understanding: atures for paragraph and fonts to create presentable e. s without any spelling error understanding the spelling and e used for sending to different mailing address using mail



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mail merge is useful when we want to	
send the same document to many people.	
USING MAIL MERGE	
 Open the word document that you 	
want to use as the letter,	
greetings, notice etc. the	
information in the document	
should not change from letter to letter.	
 Click on the mailings tab. 	
Click on the start mail merge	
button.	
Click on letters.	
Nothing happens on screen, but	
word sets up for a mail merge 5. Click on select recipients.	
 Click on select recipients. Click on to identify the type of 	
recipient list you plan to use. The	
new address list dialog box	
appears, displaying the area	
where you can enter the information. Click on each area	
and type the appropriate	
information for each person.	
7. To enter the information for	
another person, click on new	
entry. Reapeat steps 7 and 8 for	
each person to be added to	
mailing list. 8. When you finish creating the	
address list, click on ok. The save	
address list dialog box appears.	
Click on save button to save the	
file.	
 Click on edit recipient list. The Mail Merge Recipient Window appears. 	
This area list all the people on	
your mailing list. Click on check	
boxes to add or remove a person.	
11. Click ok.	
 Click on the location where you want the address to appear in the 	
letter. Click on address block. The	
insert address dialog box appear.	
Click on format for each recipients'	
name and preview it. Click on ok.	
14. A merge field representing the	
address block, the greeting line	
appears in the letter. Click on the location where you want them to	
appear. Click preview result.	
15. Word displays a preview of the	
merged letter using the	
unchanged content information	
from address file.	



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16. Click on next record icon to preview the next letter and previous letter icon to preview the previous letter. 17. Click on finish and merge. 18. Click on edit individual documents. The merge to new document dialog box appears. Choose the radio buttonto specify which people from your mailing list, you want to create letters for (All / current / from) 19. Click on ok to create letters. Word opens a new document and creates the personalized letters in the document. 20. Scroll through to see all the pages of your mail merge. Design for evaluation 1. What is a paragraph? 2. What are the various alignments available for a paragraph? 3. What do you mean by alignment? 4. What is indentation? 5. What is a spacing? 6. What is mail merge? Why is it used? 7. Fill in the blanks: view displays a webpage preview of your document. a. b. We can drag zoom button in the ______ to zoom in and drag zoom button in ______ to zoom out the document. c. Macro function is available in ____ tab. d. Save, undo, redo options are present on _____ bar.

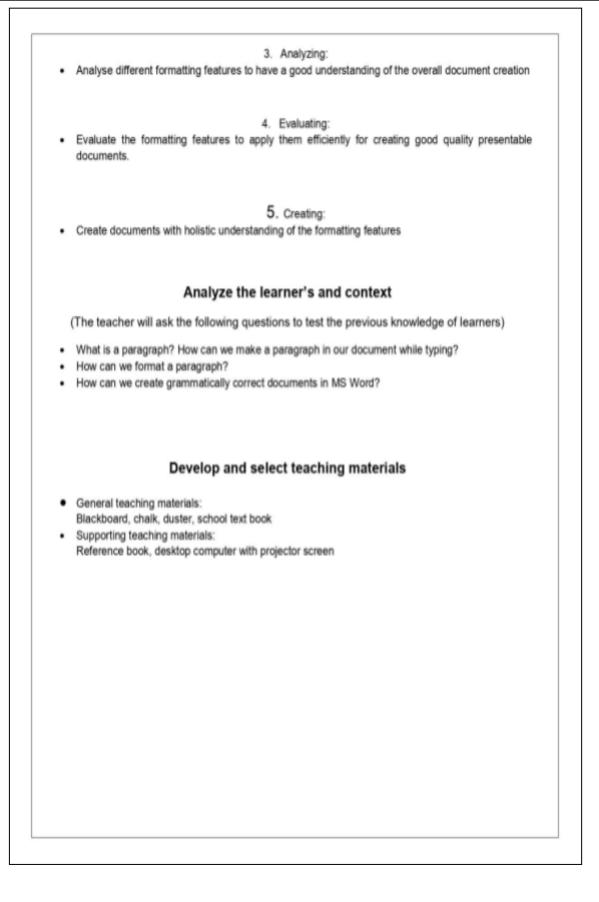


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Teaching learning strategies				
Content	Concept	Teacher's Role	Student's role	
	Paragraph	 A paragraph is any text that ends with a paragraph mark. These are created when we press the enter key on the key board. The teacher types paragraph in a new word document and show how they are separated from other paragraphs using the enter key from the key board. The horizontal alignment can be changed using these buttons on the paragraph group of the HOME tab. The left side of the paragraph can be indented by using these buttons on the year will increase or decrease the left indentation of the paragraph by half an inch. The space between each line in a paragraph can be changed using these buttons on the line spacing button on the HOME tab in the paragraph group. This list shows the most common linespacing values. The line spacing options will open the format paragraph window. To customize the line spacing open the paragraph window. There are three line spacing options- Atleast- set minimum line spacing Exactly- set the line spacing is too small for the text, part of the words will disappear. Multiple- set the line spacing to the multiple of the AT value. Multiple of 1.0's single spacing. The mail merge feature is used to produce personalized lefter for each person or your mailing list. Performing 	 Observes with interest Some students ask questions in between the speech and tends to share their own experience students seem to be elated to see the paragraphs with proper spacing of the lines. Students observe the screen with interest Some of them suggest different formats for the text. Some of them ask different question related to selection of text. 	



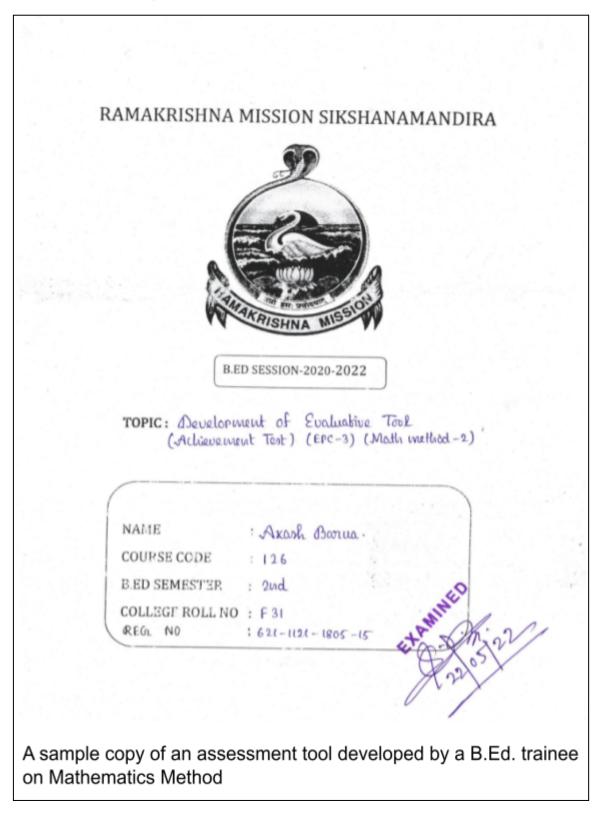
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2. Developing assessment tools for both online and offline learning:





Achievement Test Introduction: Achievement test is a test of Knowledge or Proti-Ciency which is based on something learnt or taught. The aim of an achievement test is to determine student's knowledge in a specific subject area. Achievement tests measure how well students have mastered the subject matter in a Course of Instruction. High scores in achievent lost can indicate a mantery of subject Content, and also the readiness for next advanced instruction. Low scores in achievement test Can indicate the necessity for remediation or repetition of a Course Grade. In Indian education system, it is used as a tool to measure success of a student in a Particular subject or group of subjects. It Provides information about what an individual acquire when his abilities were tested. It is the instrument Which is used to measure Capacities of an individual. objectives: i) Identify and explain reasons for Performing tests. ii) understanding testing terminology to Communicate clearly with students and Couragues. iii) Evaluate a test's validity and reliability. iv) Select appropriate tests. U) Administer test Protocols Properly and safely.



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ι.	Remainder theorem of Polynomials	5	7	35
Q.	Factorization of Polynomials	6	13	65
	Total	11	20	100
	7.	and T		
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SL NO 1. 2. 3.	veishtage to Objectives: Objectives Knowledge Understanding Application	Number_of Question 2 4 2	3 7 4	15 35 20



3.0	Jeighbage to dif	TABLE - III_ ficulties :		
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2.	Short	5	10	50
3.	Erray	2	6	30
	Total	11	20	100

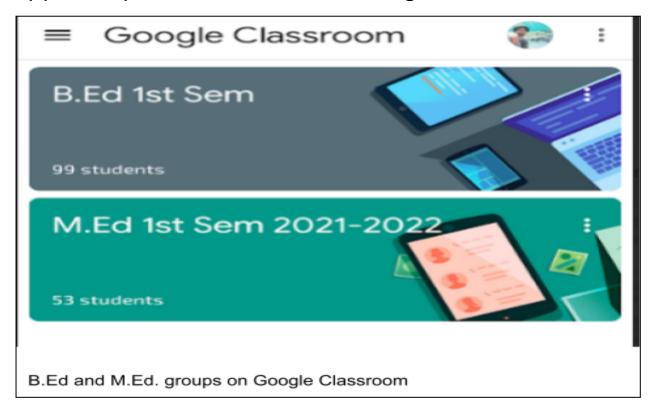


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	Observer	
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	Name of The Trainee under observation : * Short answer text	8
	Roll No. of the Trainee under observation : Short answer text	
	Class:	
) BEd	



3. Effective use of social media/learning apps/adaptive devices for learning:



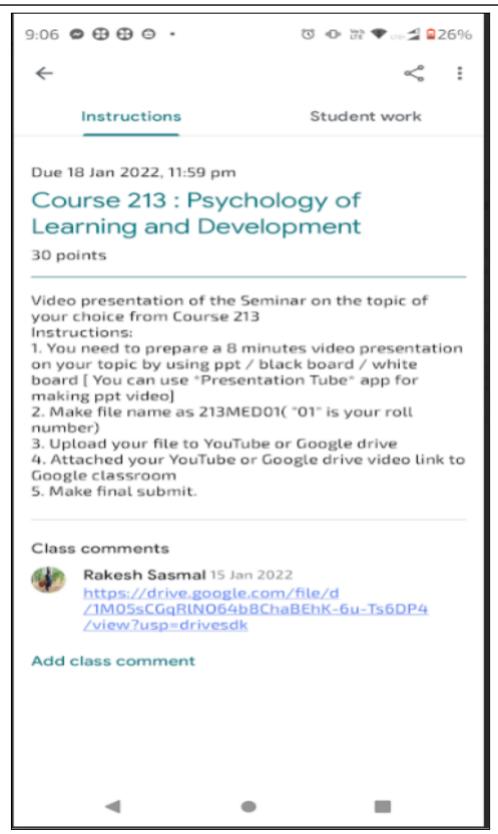


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Students are given assignments on Google classroom				

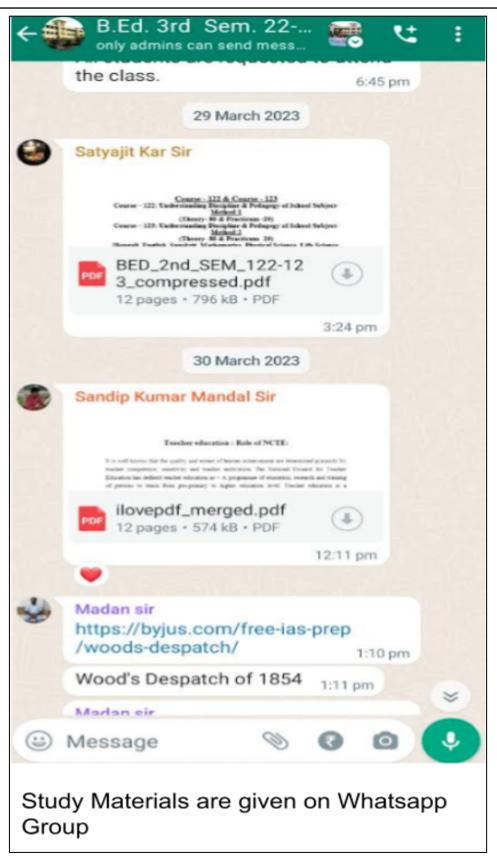


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Instructions	Student work			
Due 23 Jan 2022, 11:59 pm Designing a lesson based on any one model of teaching 10 points You need to design a lesson of your own choice for teaching by following any one model of teaching Instructions: 1. Make a front page				
 Briefly introduce the models of teaching and write in short about 6 phases of model of teaching Mention your selected topic for lesson, duration of the class, name, class (for which clas you develop lesson), Unit, Sub- unit, design your lesson based on different phases of any one teaching model using suitable and relevant examples. Conclusion References Maximum page limit= 8 pages (without front page) 				
MAKE PDF FILE AND FILE NAME AS 113BED12(if 12 is your roll number) LAST DATE OF FINAL SUBMISSION IS 20/01/2022				
Class comments Add class comment				
◄ ●				
Students are given instructions to upload their assignment on Google Classroom				

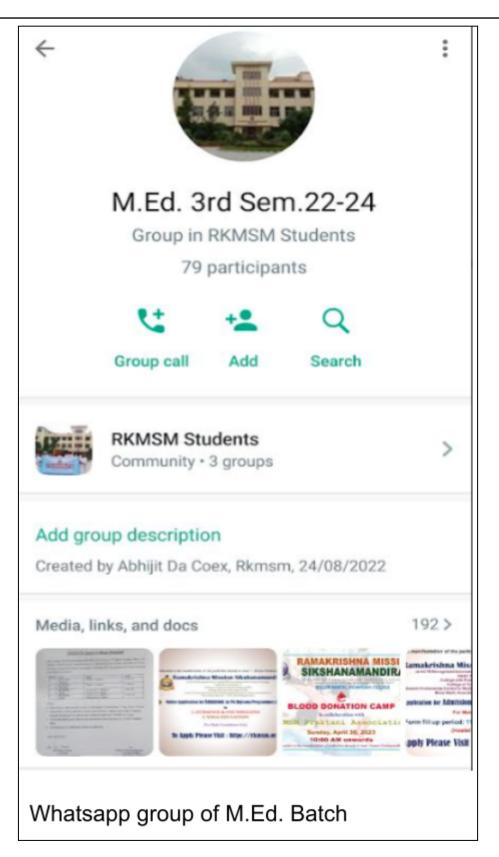




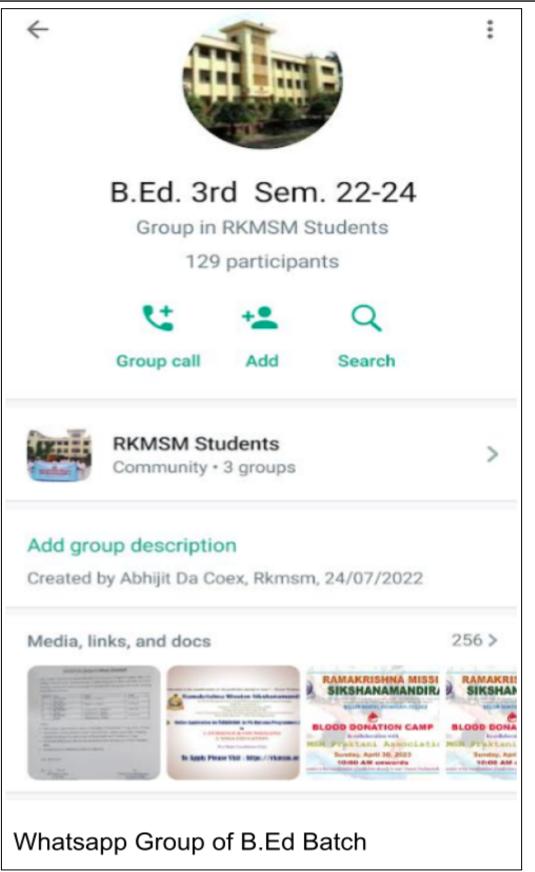








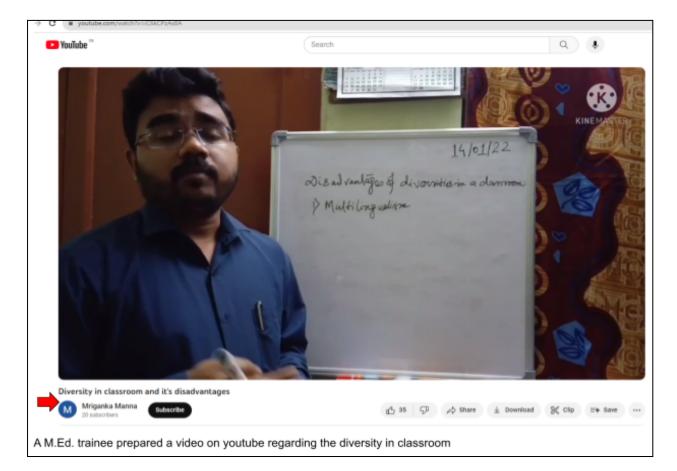


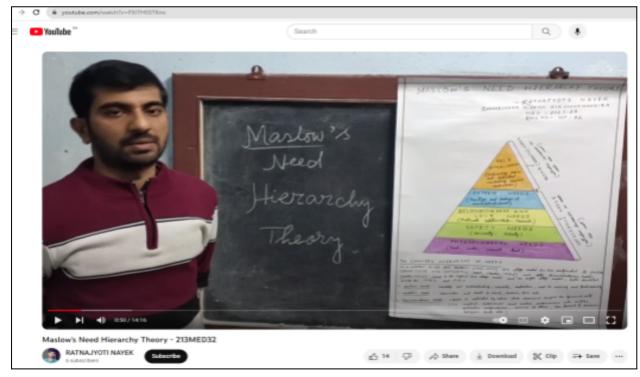




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Identifying and selecting/ developing online learning resources





"Education is the manifestation of the perfection already in man."



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TOPIC BLENDED MODE OF TEACHING LEARNING

PAPER:EDUCATIONAL TECHONOLOGY AND ICT. PRACTICUM PAPER CODE :233 ROLL NO-MF 18 ROLL NO –MF 19 ROLL NO-MF 20

INTRODUCTION

- New advancement in technology has brought changes and challenges from traditional to more advanced mode of teaching and learning process. To say a shift from traditional chalk and talk class room to technologically based web based learning, e-learning, M-learning, eresources, cloud computing and blended learning or hybrid learning.
- This, which combines electronic based learning and traditional learning environment.

The collaborative presentation of a topic by the M.Ed. trainees of 2021-2023 batch as a part of practicum



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RAMAKRISHNA MISSION SIKSHANAMANDIRA



NAME – KESHAV MISHRA ROLL – F44 B.ED 3RD SEMESTER COURSE – 133 TOPIC – 3B FIFA WORLD CUP 2022

FIFA WORLD CUP 2022

- FULL FORM Federation Internationale de Football Association
- MOST PRESTIGIOUS FOOTBALL TOURNAMENT IN THE WORLD
- TAKES PLACE QUADRENIALLY
- HIGHEST GOVERNING BODY OF FOOTBALL IN THE WORLD
- FOUNDED IN 1904
- HQ- ZURICH (SWITZERLAND)

The preparation of a Powerpoint slide by a trainee-teacher of B.Ed. on a ICT based practicum



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The list of M.Ed. trainees of the 2021-2023 academic session who prepared videos on their respective topics from the M.Ed. curriculum and uploaded them on Youtube is annexed below.

SI. No.	Name	Торіс	Link to the Video
1.	RAKESH KUMAR SHAW	How Children learn & Their suitable Environment	https://www.youtube.com/watc h?v=WryNZh-gBEQ
2.	RAHUL KUNDU	INTELLIGENCE	https://www.youtube.com/watc h?v=z7t4vD_aepg
3.	RAJESH MONDAL	Piaget language development theory	https://www.youtube.com/watc h?v=3CqaE2tNvIY
4.	BASUDEB SAREN	Moral Development Theory By Kohlberg	https://www.youtube.com/watc h?v=QVmohKHBim4
5.	DIPANKAR BARMAN	cognitive process attention, cognition and learning, চেত্তলা কি???	https://www.youtube.com/watc h?v=jJrAskgISr0
6.	ATREYO BANERJEE	Maslow's Needs of hierarchy theory	https://www.youtube.com/watc h?v=NN-b-7ilY3M
7.	MRIGANKA MANNA	Diversity in classroom and it's disadvantages	https://www.youtube.com/watc h?v=iC6kCPzAs8A
8.	AZAHAR SARKAR	Implication of society, culture and diversity for learning and development	https://www.youtube.com/watc h?v=gjzI4DLYKog
9.	Anirban Bhattacharyya	Guilford SOI Model	https://youtu.be/_2d8PGfym1 Q?t=3
10.	Pallab Roy	Emotional Intelligence	https://www.youtube.com/watc h?v=VgJpqkmNNOE
11.	RATNAJYOTI NAYEK	Maslow's Need Hierarchy Theory	https://www.youtube.com/watc h?v=F9JTH03TKns