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Belur Math, Howrah - 711 202, West Bengal

2.3.4: ICT support is used by students in various learning situations such as

- 1. Understanding theory courses
- 2. Practice teaching
- 3. Internship
- 4. Out of classroom activities
- 5. Biomechanical and Kinesiological activities
- 6. Field sports

Link of Resources Used



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

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

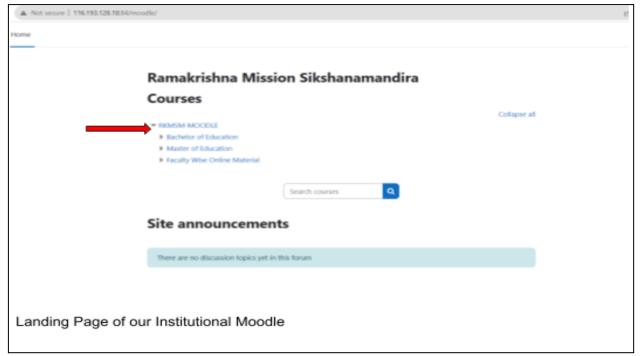


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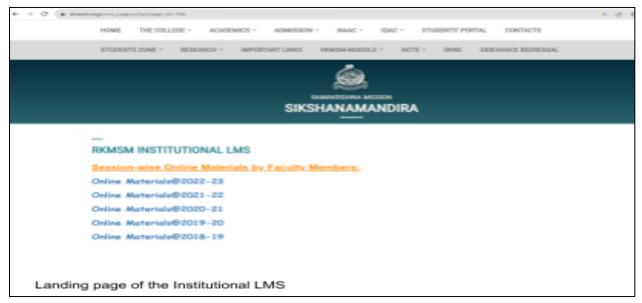
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1. Understanding Theory Courses:

Our trainee-teachers are always encouraged to use the institutional LMS and Moodle for understanding the theory courses of B.Ed. and M.Ed. An attempt has been made to arrange the courses of B.Ed. and M.Ed. semester wise on our Moodle system. Our students log in their account and use moodle for various learning resources provided by our professors. Our professors refer them to various enriching websites like epg-pathshala, e-gyankosh, videos of eminent professors recorded on vidya mitra channel, NCERT etc. Our students accordingly use them for understanding the theory courses. Besides, our professors also upload relevant powerpoints and pdfs on theory courses on our institutional LMS which is available on our website. Documentary evidence is given to support the claim below.



Link to the Page: http://116.193.128.18:84/moodle/



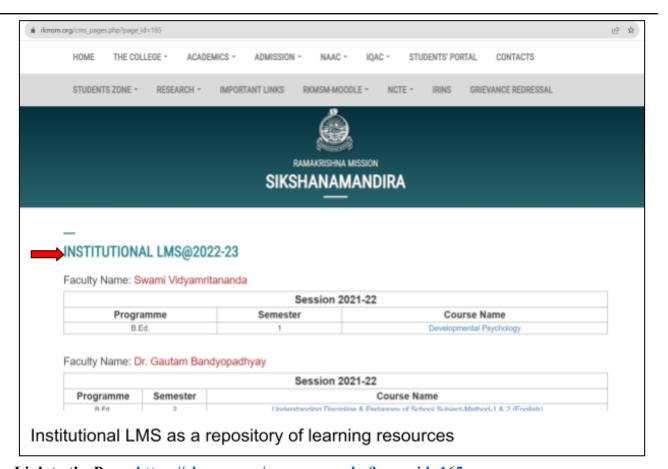
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[&]quot;Education is the manifestation of the perfection already in man."

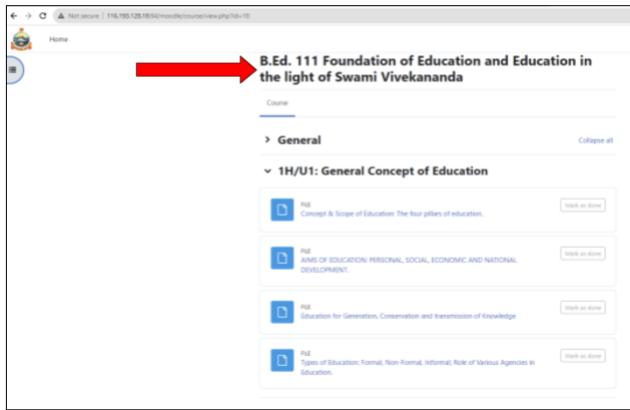


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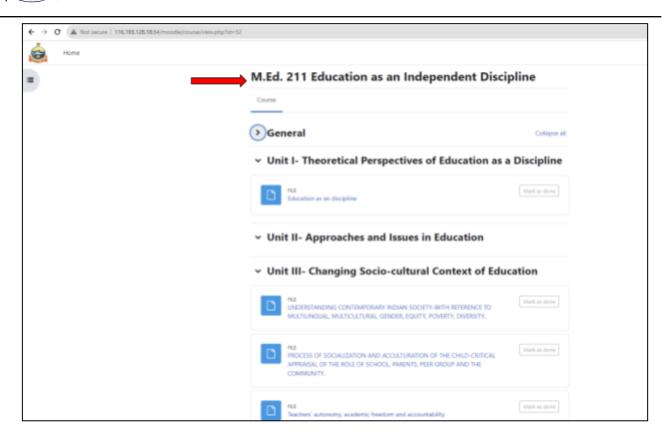
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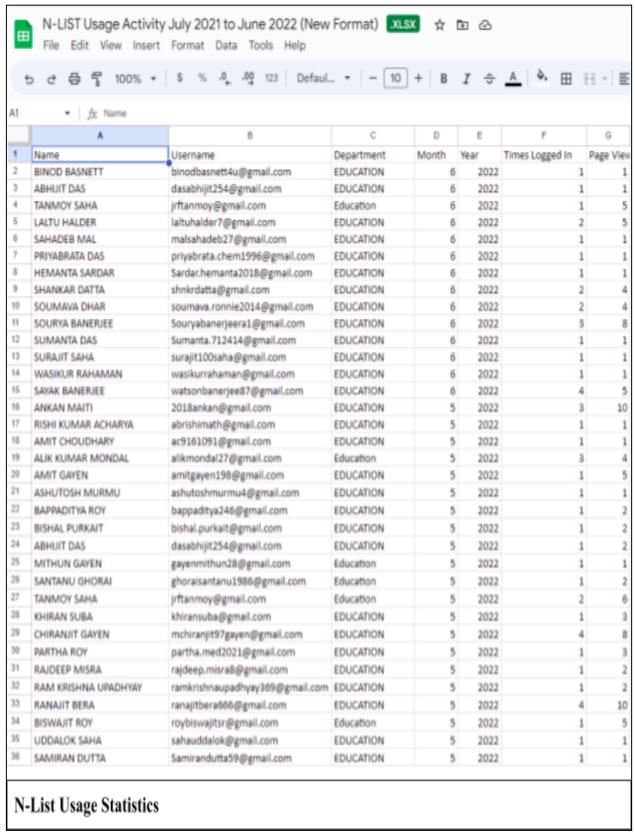
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Our Institution provides our **M.Phil. and Ph.D. scholars** with access to various online paid journals. They are also encouraged to use different online platforms for their research work and referencing. Evidence of usage is given below.



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Sum of Total Hit Count		Year	Month Name		V	U	1	儿	
		2013	2014	2015	2016	2017	2021	2022	Grand Tota
Access ID	Title						Dilli		
J325	Journal of Human Values							7	7
3327	Journal of Teacher Education	1	5	5		14	3	9	37
J366	South Asia Research							2	2
3396	Adult Education Quarterly							1	1
3585	Canadian Journal of School Psychology		7		3	8	1	5	24
J591	Educational Researcher			2					2
3592	Review of Educational Research		5	2					7
3593	Review of Research in Education	1	1						2
3594	Journal of Educational and Behavioral Statistics	1	6						7
3651	Journal of Primary Care & Community Health					1			1
3660	Sociology of Education		2						2
3674	Psychology of Women Quarterly				2				2
3676	SAGE Open			1	7				8
J730	AERA Open					1			1
J804	The Canadian Journal of Psychiatry					1			1
L003	Journal of Education for Sustainable Development			1					1
L077	Social Change							2	2
L109	Contemporary Education Dialogue		1	6	4			286	297
L202	Higher Education for the Future							8	8
L230	European Educational Research Journal							2	2
L820	Journal of Research in International Education						4	-	4
L956	Management in Education	1							1
Grand Total		4	27	17	16	25	8	322	419

Usage Statistics of Online Sage Journals

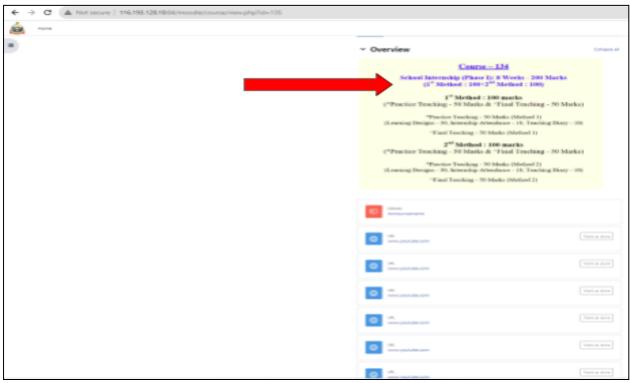


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2. Practice Teaching:

Before our trainee-teachers are sent to their internship, they are encouraged to use ICT based support for understanding practice teaching. This also helps them clarify their doubts on voice modulation, micro-teaching skills, posture, expressive power, designing lesson plans etc. Our professors upload various relevant links to the moodle for the purpose of practice-teaching. This increases their confidence and orients them to the teaching skill needed for taking a class. Below a link is given to support the claim.



Link to the Page: http://116.193.128.18:84/moodle/course/view.php?id=135



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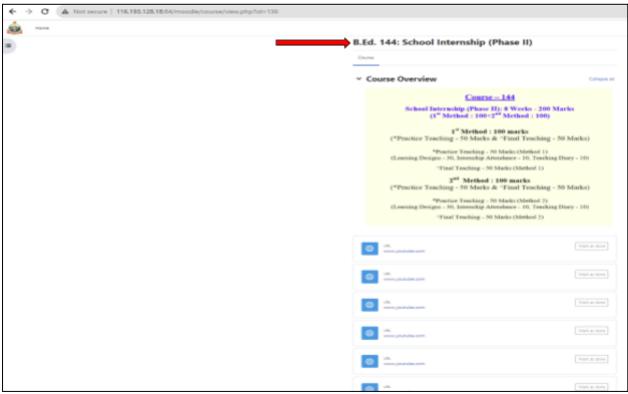


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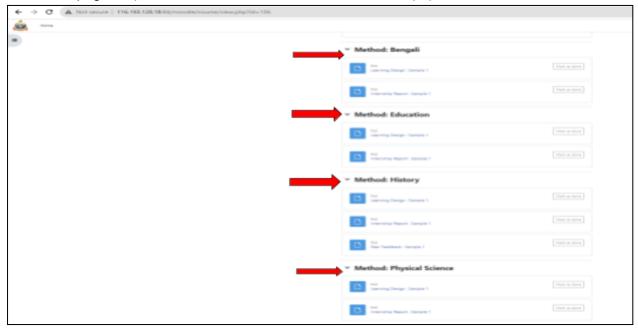
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3.Internship:

During internship, our trainee-teachers have to work in different capacities in the allotted school. For this, they need to adapt themselves to different situations arising from teaching and non-teaching work. To have a fair amount of knowledge on those, our trainee-teachers are encouraged to use ICT based materials uploaded on our moodle. Our professors refer them to different online materials, relevant videos for having a prior knowledge of the internship engagement.



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Link to the page: http://116.193.128.18:84/moodle/course/view.php?id=136

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Digital Lesson Plans prepared by our trainee-teachers:

LEARNING DESIGN

SCHOOL- UTTARPARA GOVT. HIGH

SCHOOL

UNIT- STEREOCHEMISTRY SUB UNIT –

SUBJECT- CHEMISTRY

CLASS-XI DATE- 29.03.2022 DURATION- 40 MIN TEACHER- Suman Mondal ROLL NO- F-42.

- 1. CONCEPT OF STEREOCHEMISTRY
 - 2. STEREOISOMER
- CONSTITUTIONAL ISOMER.TODAY'S TOPIC- STEREOISOMER.

LEARNING GOALS/OBJECTIVES

Remembering	 a)Students know the concept of chiral carbon and Condition of having Chiral molecule.
	b) Students know the chiral center and Stereogenic Carbon center-
Understanding	a) Students understand the difference bet? Constitutional and Stereo isomer. b) Students Understand the difference bet and E12 Configuration.
Applying	a)Students can apply their knowledge to identify enantiomer and diastereomers. b)students can apply their knowledge to
	identify active and meso compound.

Sample Digital Lesson Plan of Chemistry

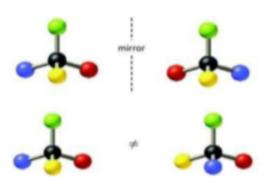


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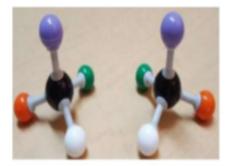
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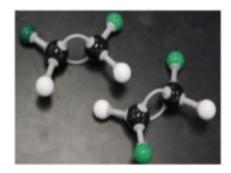
TEACHING LEARNING MATERIALS

1. Chalk 2. Duster 3. Blackboard 4. Book 5. Charts and Models.











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TEACHING LEARNING STRATEGIES

Concept	Teacher's role	Student's role	Black Board work
Classification of Stereoisomer	Lecture cum Demonstration Method Teacher will teach the concept of stereoisimers with proper classification and chart.	Students will understand the concept then interact with teacher regarding their doubts.	Continuitional (structural) toomers (paraticoners) Continuers Continuers Continuers Continuers Continuers Continuers Continuers Continuers Continuers
Conformational isomer	Lecture cum Demonstration Method Teacher will teach the concept of Conformational isomers with proper classification and Model.	Students will understand the concept then interact with teacher regarding their doubts.	CH ₃ H CH ₃



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HOME ASSIGNMENT

- 1. How you will separate diastereomeric pair Compounds?
- 2. Between compound A and B COOH Which will be optically active HO H HO H ACOOH ACTIVE HO HO HO H COOH COOH
- 3. What is the difference between Cis/Trans and E/Z isomer?

DIAGNOSIS OF WEAKNESSES FOR REMEDIAL CLASSES

After Evaluation, remedial class will be arranged for weak and unsuccessful students (if any) where the Problem arising port of the topic I will be taught again with effective teaching strategies and more easy and interesting way.



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Emanations and Diastereomers	Lecture cum Demonstration Method Teacher will teach the concept of Stereoisimers with proper classification and chart	Students will understand the concept then interact with teacher regarding their	Enantiomer H H H H H H H H H H H H Diastereomer	Enantiomer H H H H H H H H H H H H H H H H H H
Cis/ Trans and E/Z isomers	Lecture cum Demonstration Method Teacher will teach the concept of Cis/Trans and E/Z with proper classification and Model.	doubts. Students will understand the concept then interact with teacher regarding their doubts.	CH,CH, CIS CH,CH, CH,	Trans CI Br E-configuration

DESIGN FOR EVALUATION

- 1. what is the difference between Enantiomer and Diastereomer?
- 2. what is the difference between conformational and Configuration isomer?
- 3. Draw the two isomer of C₂H₆O molecular formula.





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Learning Design

School : Uttarpara Govt. High School

Class: x

Time: 45 Mins

Date : 05.04.2022

Teacher: Bhairab Singha (F-09)

Subject: Physical Science

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

Today's lesson: 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
7,770	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.

Sample Digital Lesson Plan of Physical Science



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Creating	1.	Represent the formula in chart.
	2.	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, $V \propto 1/$, 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, $V \propto T$, when n & P are constant



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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 \dots (*) $
A simple problem and solution	A problem will be presented in the blackboard and it will be solved by problem solving method. 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 $V_2 = 3 L$, $V_2 = 200 K$. 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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LEARNING DESIGN

NAME OF SCHOOL-M C K Vidyapeeth SUBJECT- Computer Science

CLASS- IX

TEACHING UNIT- Word

processing

DURATION- 45 minutes

SUB UNIT-

Formatting, paragraphsAlignment, 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

(Based on revised Bloom's Taxonomy)

Expected behavioral changes of the learner's can be studied under different domains of objectives, as follows:

1. Remembering:

In MS word paragraph is any text which end with a paragraph mark. These are created when we
press the enter key on the keyboard. We can see the hidden characters such as the paragraph
mark by using show/hide button in the upper right-hand corner of paragraph group.

2. Understanding:

- Understand the various formatting features for paragraph and fonts to create presentable documents that suits the definite purpose.
- Create grammatically correct documents without any spelling error uinderstanding the spelling and grammar feature of MS Word.
- Understand how some document can be used for sending to different mailing address using mail merge feature of MS Word.

Sample Digital Lesson Plan of Computer Science



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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. 2. Click on the mailings tab.	
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	
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.	
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.	
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.	
10. 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.	
12. 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.
3. What do you mean 4. What is indentation 5. What is a spacing? 6. What is mail merge 7. Fill in the blanks: a vi b. We can drag zo to zoom out the c. Macro function	is alignments available for a paragraph? by alignment? ? Why is it used? ew displays a webpage preview of your document. som button in the to zoom in and drag zoom button in

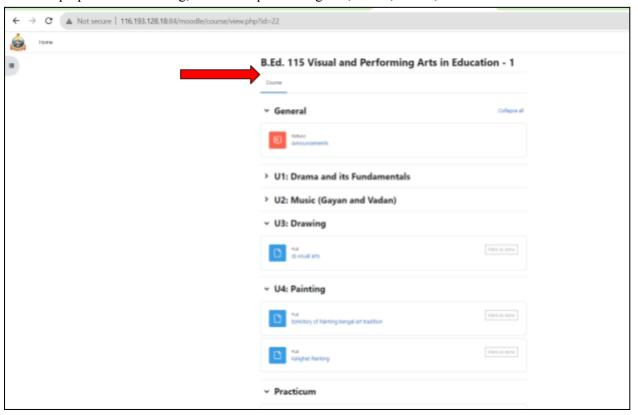


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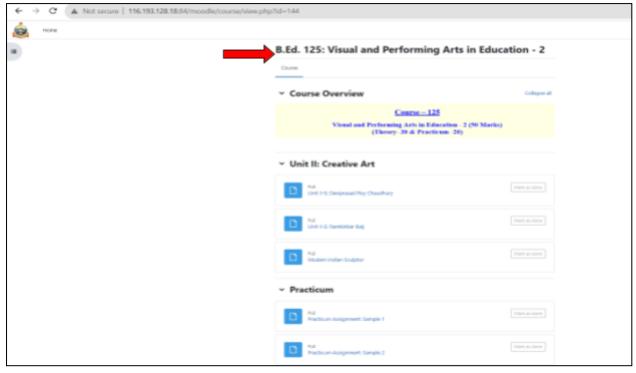
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4. Out of Classroom Activities:

For performing various works apart from teaching, our trainee teachers are also encouraged to use different creative activities using our moodle. Our teacher-trainers provide them with various links and videos to prepare for anchoring, visual and performing arts, music, drama, handicrafts etc.



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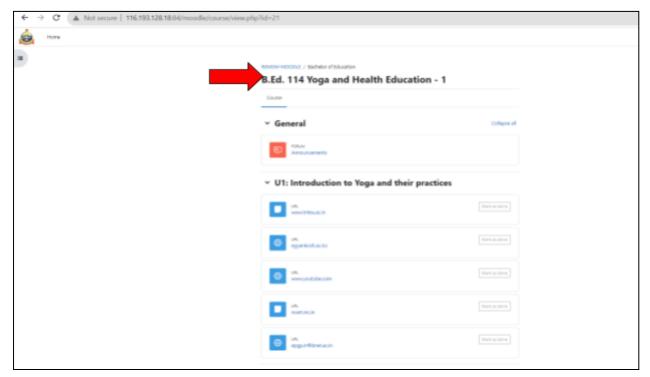
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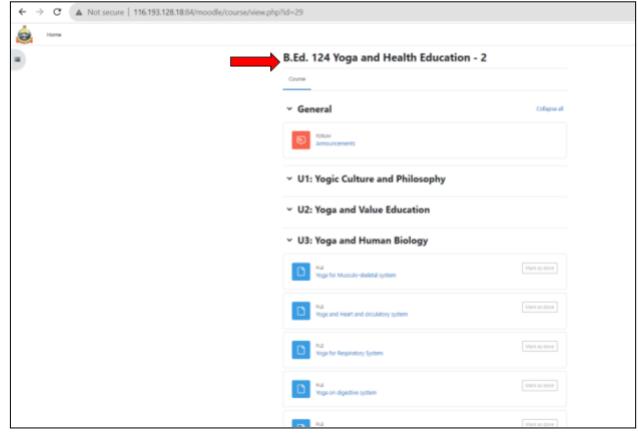
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5. Biomechanical and Kinesiological Activities:



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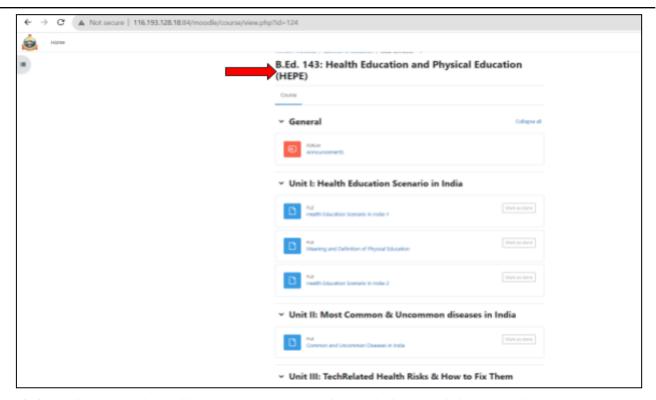
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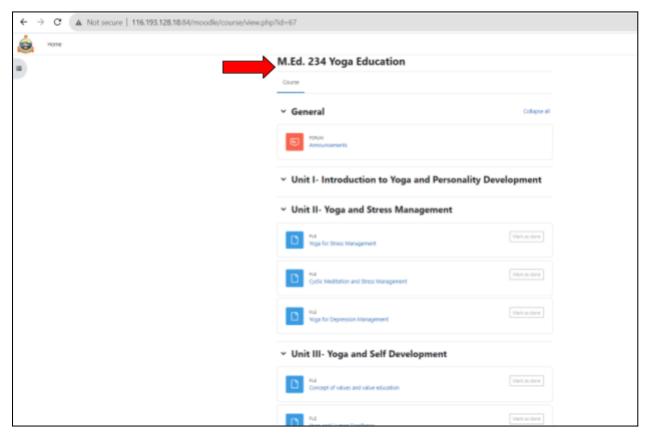


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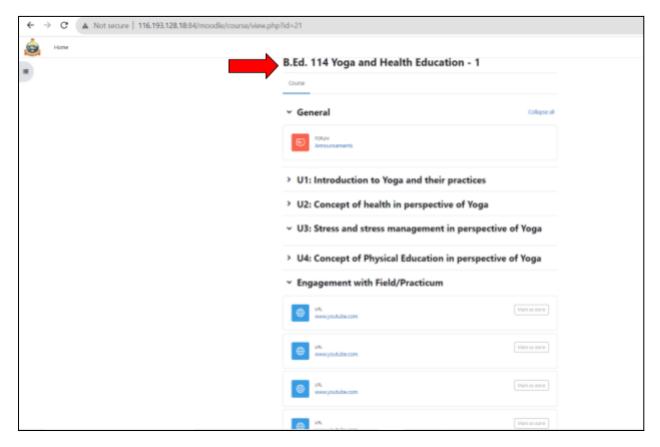
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6. Field Sports:



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