



Sri Ramakrishna Mission Vidyalaya College of Education

(An Autonomous College Affiliated to the Tamil Nadu Teachers Education University and
Re-accredited with A++ Grade by NAAC with CGPA 3.82)

Sri Ramakrishna Vidyalaya Post, Periyanaickenpalayam, Coimbatore - 641 020.
Phone: 80125 33915 | E-mail: srkvcoe@yahoo.co.in | Website: www.srvcoe.org

NAAC
3rd Cycle

Criterion II
Metric 2.3.4

CRITERION II TEACHING-LEARNING AND EVALUATION

2.4 Teaching-Learning Process

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 class room activities**
- 5. Biomechanical and Kinesiological activities**
- 6. Field sports**

**Lesson plan / activity plan/ activity report to
substantiate the use of ICT by students in
various learning situations**

	<p>Sri Ramakrishna Mission Vidyalaya College of Education (An Autonomous College Affiliated to the Tamil Nadu Teachers Education University and Re-accredited with A++ Grade by NAAC with CGPA 3.82) Sri Ramakrishna Vidyalaya Post, Periyanaickenpalayam, Coimbatore - 641 020. Phone: 80125 33915 E-mail: srkvcoen@yahoo.co.in Website: www.srkvcoe.org</p>	<p>NAAC 3rd Cycle</p> <p>Criterion II Metric 2.3.4</p>
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Lesson plan / activity plan/ activity report to substantiate the use of ICT by students in various learning situations

List of Particulars

S.No.	Activity	ICT Support Used
1	Understanding theory courses	(i) Utilization of University Website for Collection of Reference Materials
		(ii) Utilization of College Website for Collection of Study Materials
		(iii) Utilization of Online Resources
		(iv) Utilization of e-Resources
2	Practice teaching	(i) Application of Online Resources
		(ii) Micro Teaching Skill - Episode
		(iii) e-Content preparation
3	Internship	(i) Utilization of e-Pathshala
		(ii) Utilization of TNTBESC Website
		(iii) Model Lesson Plan
		(iv) Utilization of Online Resources – GeoGebra, Scratch
4	Out of class room activities	Utilization of Online Resources – Edpuzzle, Blog, Canva, Kahoot, Padlet
5	Biomechanical and Kinesiological activities	Utilization of YouTube for Understanding Biomechanical and Kinesiological Activities
6	Field sports	Utilization of Smartphone for recording and clipping photos



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Lesson Plan/ Activity Report to Substantiate the use of ICT by Students in Various Learning Situations

Information and Communication Technology helps a student to develop new skills, improve imaginative power, become creative and enhance their learning process. It ultimately enhances academic performance and makes teaching and learning process easy and interesting. For understanding theory courses, our student-teachers have been utilising various e-resources like websites - Tamil Nadu Teachers Education University, Tamil Nadu Textbook Corporation, egyankosh, Open Learning System of our college, e-pathshala, Diksha, Khan academy, INFLIBNET and so on. Apart from that they are using PhET, Olabs, Google classroom, Kinemaster, Edpuzzle, Blogs etc. during in-house practice teaching, internship and out of classroom activities in different learning situations. Also, they involved biomechanical and kinesiological activities and field sport.

The student-teachers are provided with advanced ICT facilities at College of Education to utilise various ICT e-resources. The College of Education has Computer Laboratory, Digitalised Library and Language Laboratory, STEM Lab, and other subject specific laboratories that facilitate the following.

- Understanding theory courses
- Practice teaching
- Internship
- Out of classroom activities
- Biomechanical and Kinesiological activities
- Field sports



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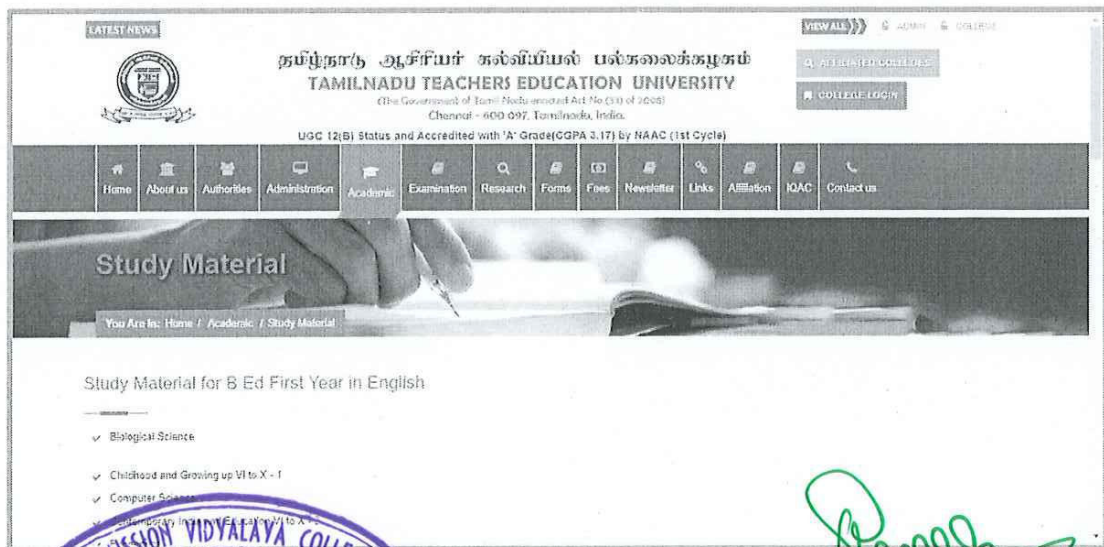
Activity Reports

1. Understanding Theory Courses

Curriculum is a framework that sets expectations for student learning. It serves as a guide for teachers, a roadmap if you will, that establishes standards for student performance and teacher accountability. Curriculum is a group of courses offered in a particular field of study. The college of education offers teacher education programmes that comprises of various theory courses to enable the student-teachers to enhance learning and facilitate instruction. Since, Information and Communication Technology (ICT) in education is the mode of education that support, enhance, and optimise the delivery of information, the faculty members utilised various ICT tools to make student-teachers understand the theory courses effectively.. They were oriented with various ICT resources that facilitate understanding different theory courses incorporated in curriculum. With the guidance of the faculty members the student-teachers have been utilising online resources of our college, various universities and educational websites (Eg. Tamil Nadu Teachers Education University, Indira Gandhi National Open University, e-Pathshala, Infilbnet, Khan academy, PhET, Olab, Diksha, etc.) that made the student-teachers self-directed in learning various theory courses that supports regular teaching learning process.

(i) Utilisation of University Website for Collection of Reference Materials

Tamil Nadu Teachers Education University – Study Material



https://www.tneu.ac.in/study_material.php

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Tamil Nadu Teachers Education University - Power Point Presentations



The screenshot shows the homepage of the Tamil Nadu Teachers Education University website. The header includes the university's logo, name in Tamil and English, and its accreditation status. A navigation menu is visible below the header. The main content area features a banner for 'Power Point Presentations' with a list of video presentations below it.

Tamil Nadu Teachers Education University
(The Government of Tamil Nadu enacted Act No. (33) of 2008)
Chennai - 600 097, Tamilnadu, India.
UGC 12(B) Status and Accredited with 'A' Grade (CGPA 3.17) by NAAC (1st Cycle)

Power Point Presentations

You Are In: Home / Power Point Presentations

Video Presentations

- ✓ EPISTEMOLOGICAL BASES OF EDUCATION
- ✓ SOCIAL BASES OF EDUCATION
- ✓ CHILD CENTRED EDUCATION

https://tnteu.ac.in/power_point_presentation.php

Tamil Nadu Teachers Education University - Video Presentations



The screenshot shows the homepage of the Tamil Nadu Teachers Education University website, specifically the 'Video Presentations' section. The header and navigation menu are identical to the previous screenshot. The main content area features a banner for 'Video Presentations' with a list of video presentations below it.

Tamil Nadu Teachers Education University
(The Government of Tamil Nadu enacted Act No. (33) of 2008)
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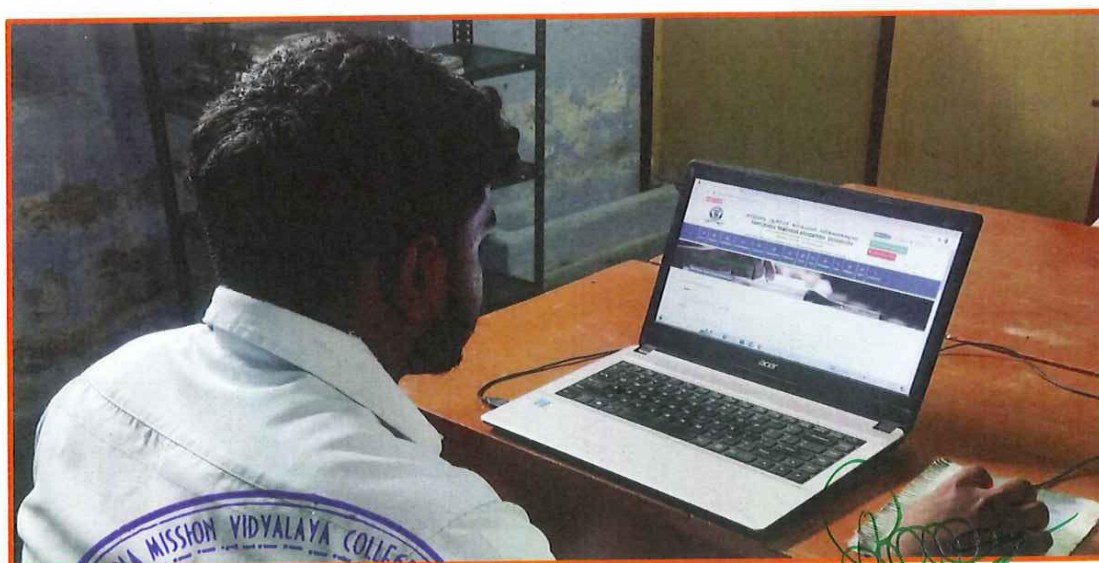
Video Presentations

You Are In: Home / Video Presentations

Video Presentations

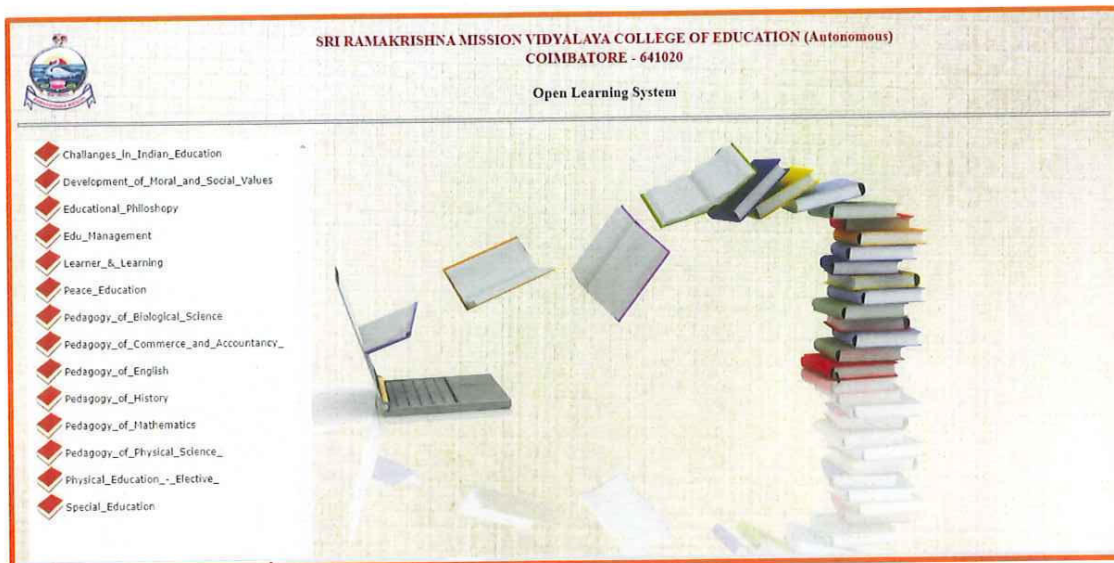
- ▶ Video 1
- ▶ Video 2
- ▶ Video 3

https://tnteu.ac.in/video_presentation.php

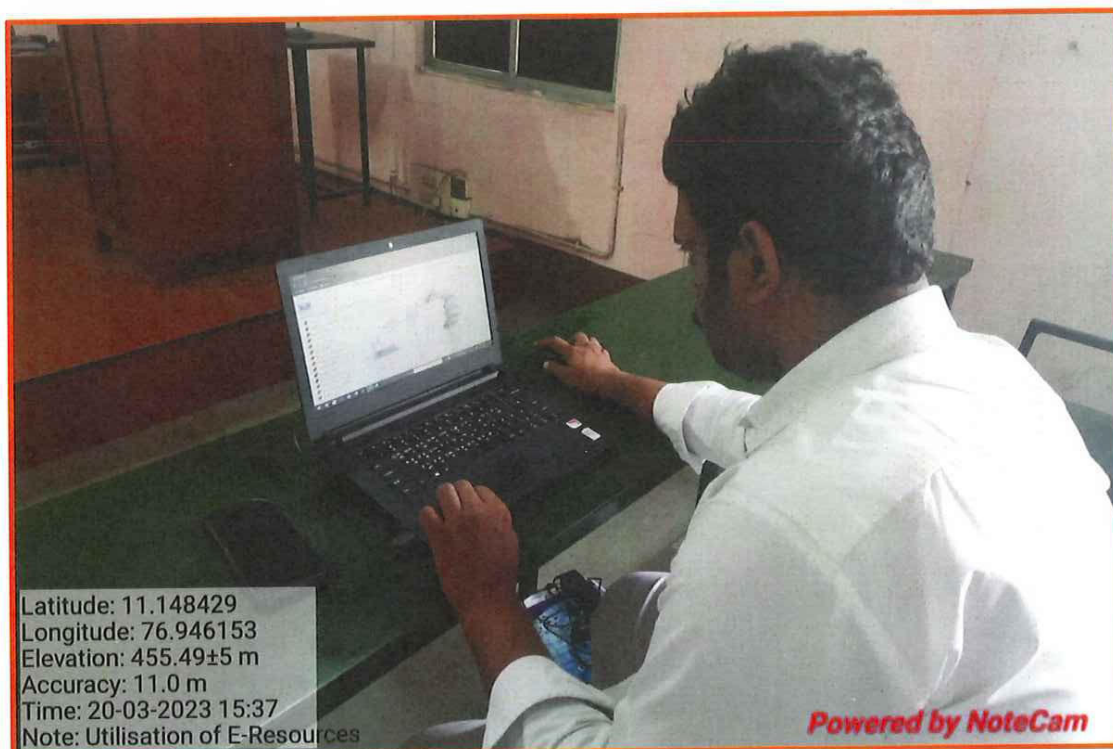


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(ii) Utilisation of College Website for Collection of Study Materials

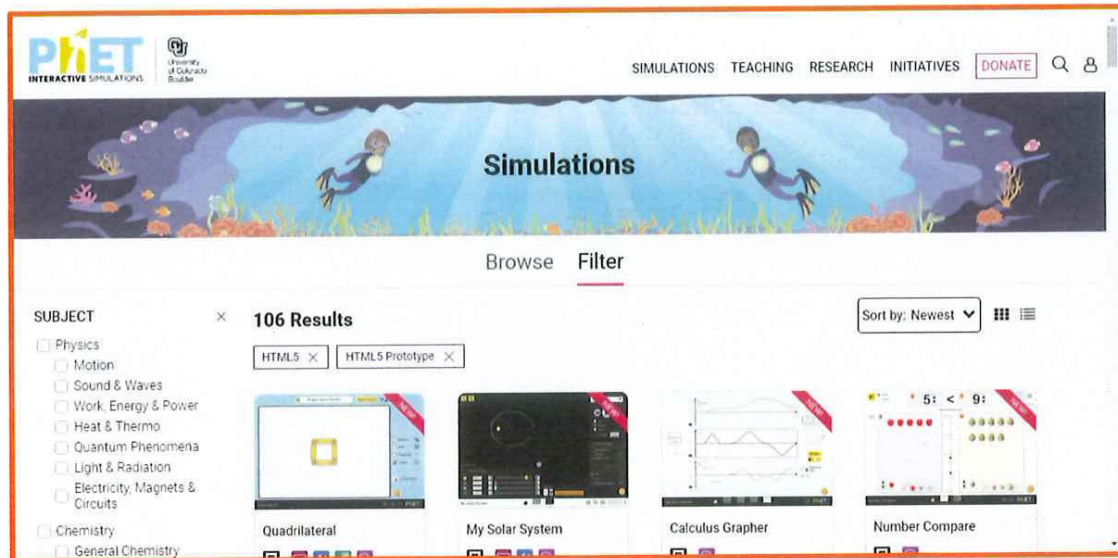


<https://www.srkvcoc.org/ols/>

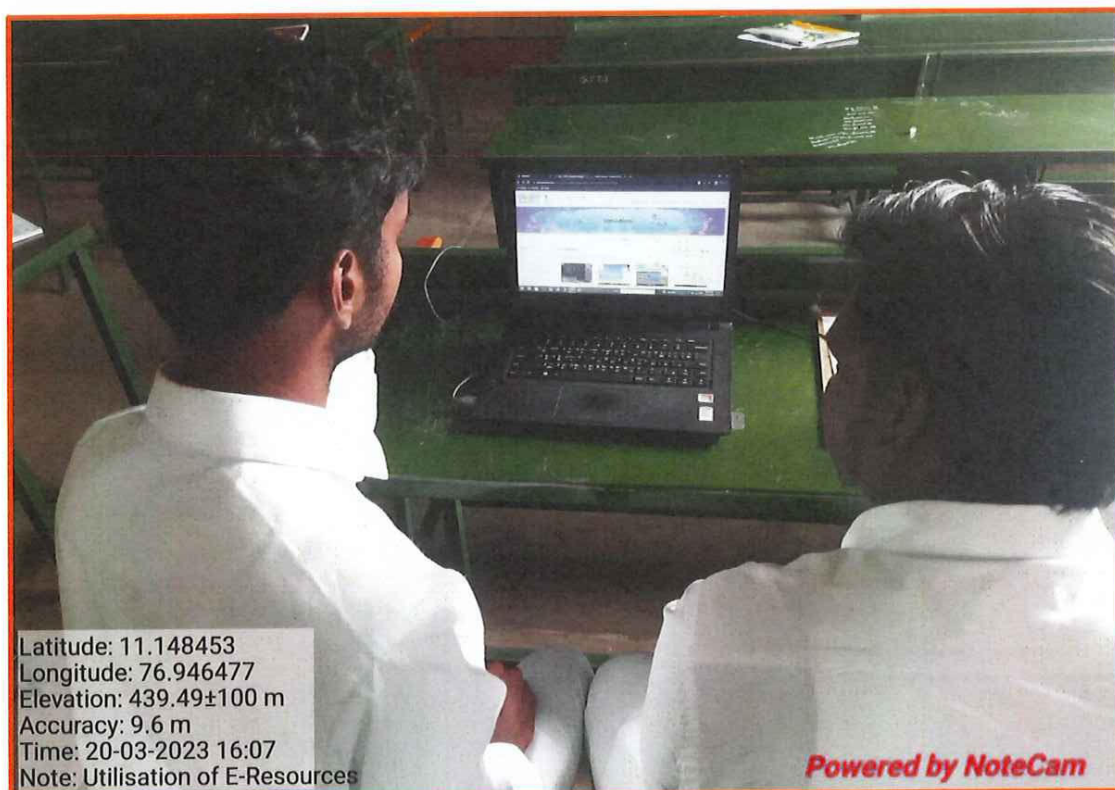



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(iii) Utilisation of Online Resources
(PhET - Simulation)



<https://phet.colorado.edu/en/simulations/filter?type=html,prototype>




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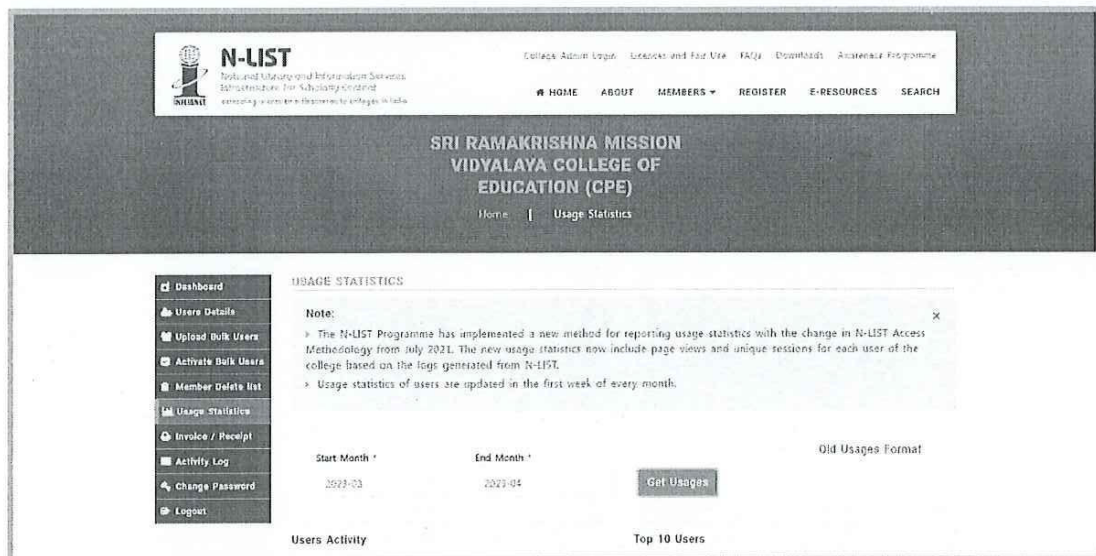
(iv) Utilization of e-Resources

INFLIBNET



<https://www.inflibnet.ac.in/>

N-List




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N-LIST
National Library and Information Services
Infrastructure for Scholarly Content
extending access to e-Resources to colleges in India

College Admin Login Licences and Fair Use FAQs Downloads Awareness Programme

HOME ABOUT MEMBERS REGISTER E-RESOURCES SEARCH

91 Total Users 32 Active Users 56 Expired Users 2 Pending Users 1 Invalid Email

Total Users
Active Users Invalid Email ID Activation Pending Expired Users Send Activation Email

Select All Extend Validity Delete Add New User

Show 10 entries Export Search

Name	Email	Designation	Department	Validity	Status	Action
Mr.N.Rajesh Kumar	rajeshkumar@rmv.ac.in	Asst.Professor	Dept. of Biological Science	2030-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Dr.M.Jagadesh	drmjagadesh@gmail.com	Asst.Professor	Dept. of Education	2030-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Arun Kumar S	arunkumarzoologist@gmail.com	Student	B.Ed	2023-05-31	Expired	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Haniharan G	hanivills554@gmail.com	Student	B.Ed	2023-05-31	Expired	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SOUNDARRAJAN B	soundarrenuga1999@gmail.com	Student	B.Ed	2023-05-30	Expired	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

N-LIST
National Library and Information Services
Infrastructure for Scholarly Content
extending access to e-Resources to colleges in India

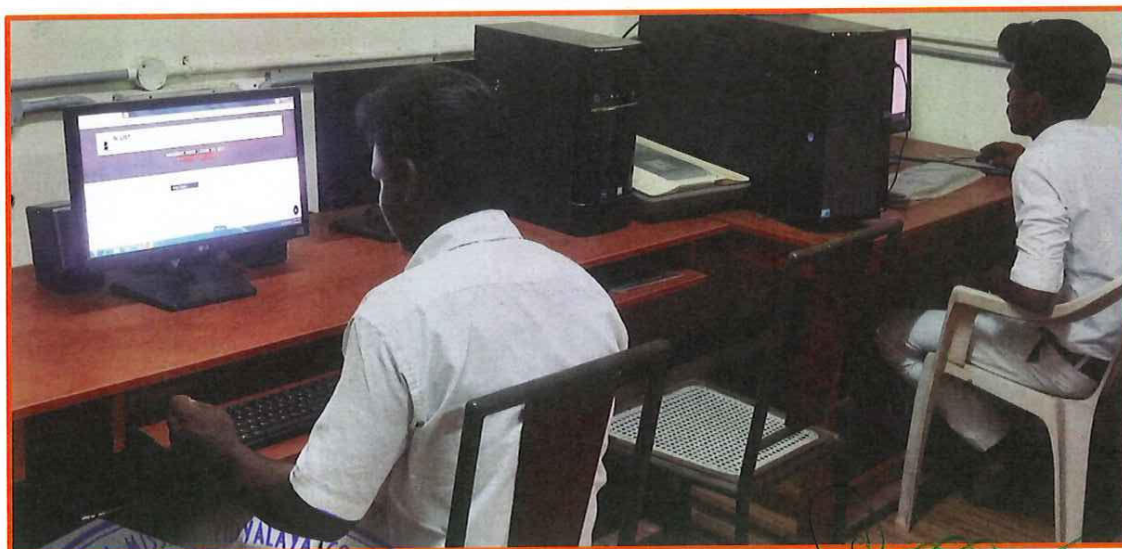
College Admin Login Licences and Fair Use FAQs Downloads Awareness Programme

HOME ABOUT MEMBERS REGISTER E-RESOURCES SEARCH

Activity Log Change Password Logout

Show 10 entries Export Search

Name	Email	Designation	Department	Validity	Status	Action
Prakash V	prakash05431@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Arunkumar S	shanmugam7746@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Prabathasuryan R	prabathasuryaenglish@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Anishkumar A	anish15112001@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Saran N	saransaran51199@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vishnu J	vishnu429gnp@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Kishore M	kishoremurugesan25@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Tharsan R	ttharsan187@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Suganthan R	suganthanmgl@gmail.com	Student	B.Ed	2024-05-31	Active	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

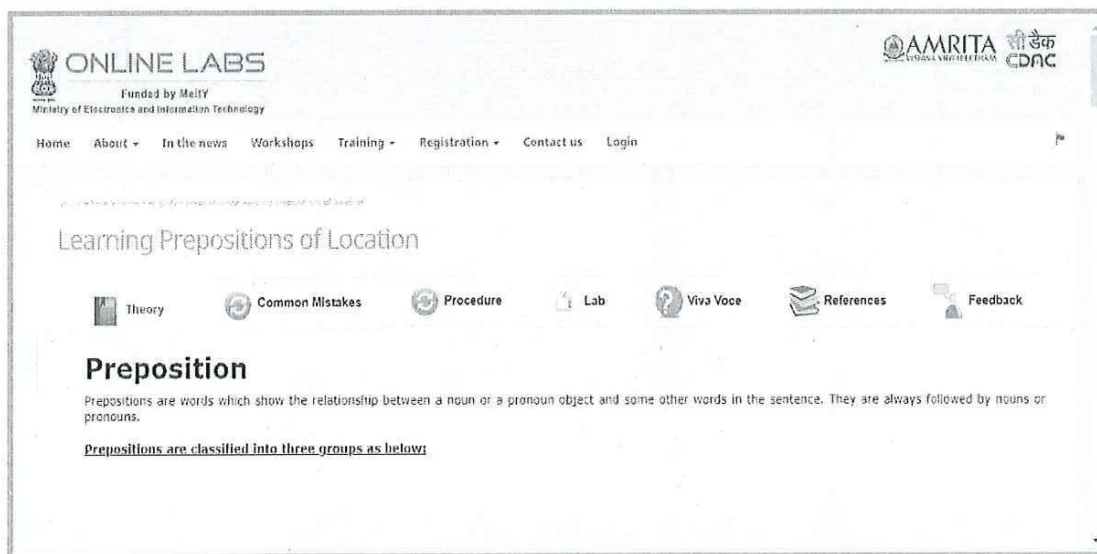


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2. Practice Teaching


Practice teaching provides student-teachers with an opportunity to develop appropriate skills for classroom interaction. It provides experiences to student-teachers in the actual teaching and learning environment. During practice teaching at college of education, all the student-teacher are given the opportunity to try the art of teaching before actually getting into the real world of the teaching profession. The student-teachers engaged in micro teaching skill practices, demonstration, seminar presentations that enhances their skills and teaching competence that facilitate them to apply the learned skills in real teaching during internship. Since ICT plays a crucial role in teaching learning process the student-teachers have been trained using ICT resources like PhET, Olabs, Scratch, Algodoo, Blogs, Diksha, Arloopa, AR Anatomy, Google Classroom, Transumaths, Geogebra, Kinemaster, etc. that facilitate them ICT skills and incorporate real world teaching.

(i) Application of Online Resources (OLABS)



<https://cdac.olabs.edu.in/?sub=84&brch=22&sim=188&cnt=1>




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(ii) Micro Teaching Skill - Episode

SKILL OF ILLUSTRATING WITH EXAMPLES

Name of the trainee : Aswinkumar, S

Register Number : 218801

Name of the supervisor : G. Hanuman

Duration : 6 minutes

Subject : English

Cycle : Teach / Reteach

Topic : preposition.

Date : 17.02.2022

Teacher : Good Afternoon, Students.

Students : Good Afternoon, sir!

Teacher : What is preposition?

Students : A preposition is a word which is used to link noun, pronoun, simplify, it means expressing a relation to another word. Ex : The man on the platform.

Teacher : In this picture what cat is? (on the blackboard).

Students : The cat is on the chair.

Teacher : Where the book is?

Students : The book is on the table.

Teacher : What's the position of pen?

Students : The pen is beside the book.

Teacher : Where the shoe is?

Students : The shoe is under the table.

Teacher : What is hanging on the wall?

Students : The clock is hanging on the wall.

Teacher : What's the position of the boy?

Students : The boy is sitting in front of the cat.

Teacher : Name the things that table carries?

Students : Book, pen and pencil on the table.

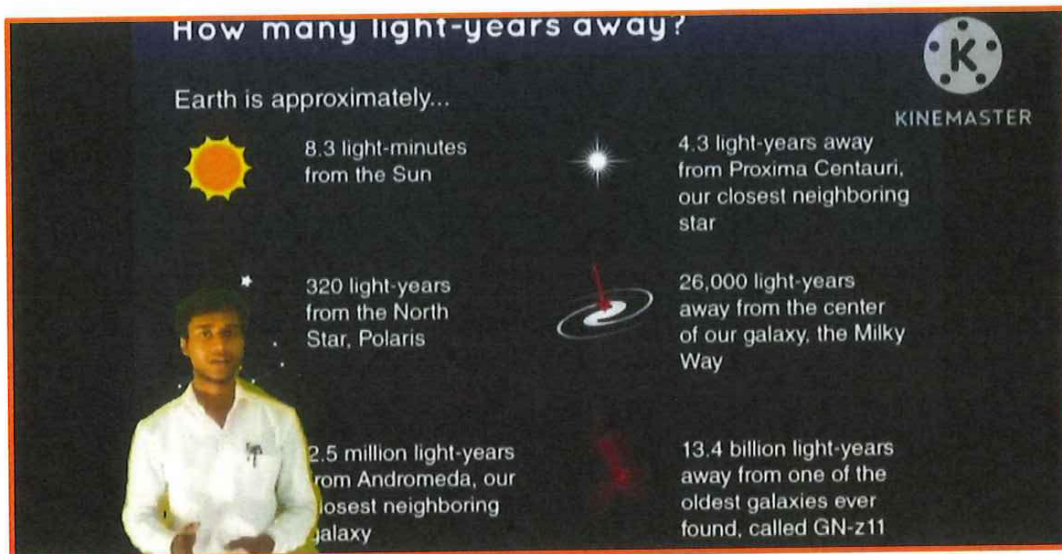
Teacher : The words which you have used on beside, under, in front are all the preposition.

<https://cdac.olabs.edu.in/?sub=84&brch=22&sim=188&cnt=1>
<https://cdac.olabs.edu.in/?sub=84&brch=22&sim=194&cnt=1>

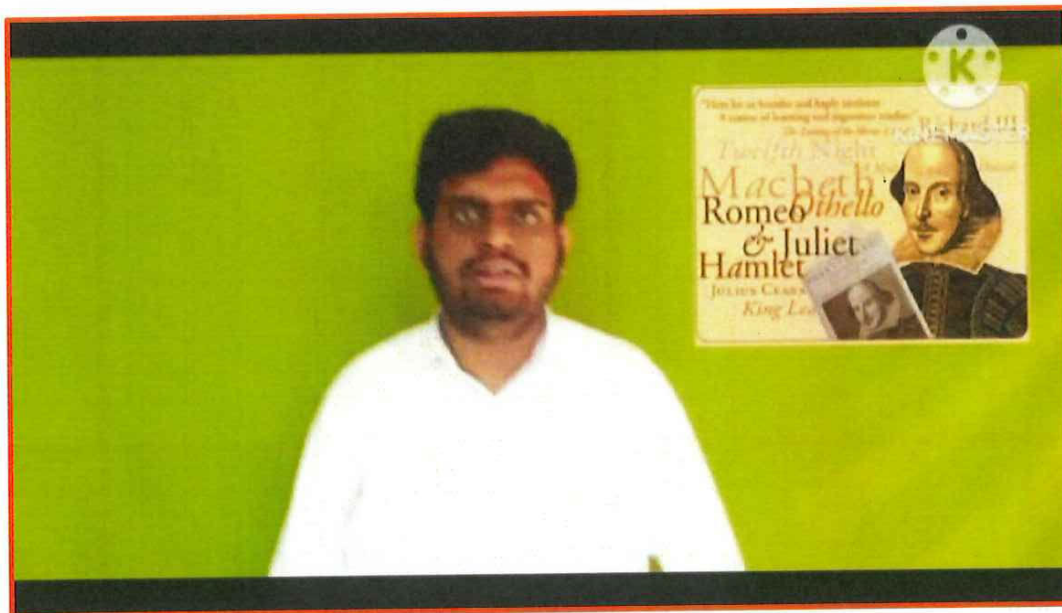


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(ii) e-Content Preparation



e-Content Prepared by Sri R. Suganthan, B.Ed. I year Student-Teacher



e-Content Prepared by Sri R. Prabathasuryan, B.Ed. I year Student-Teacher

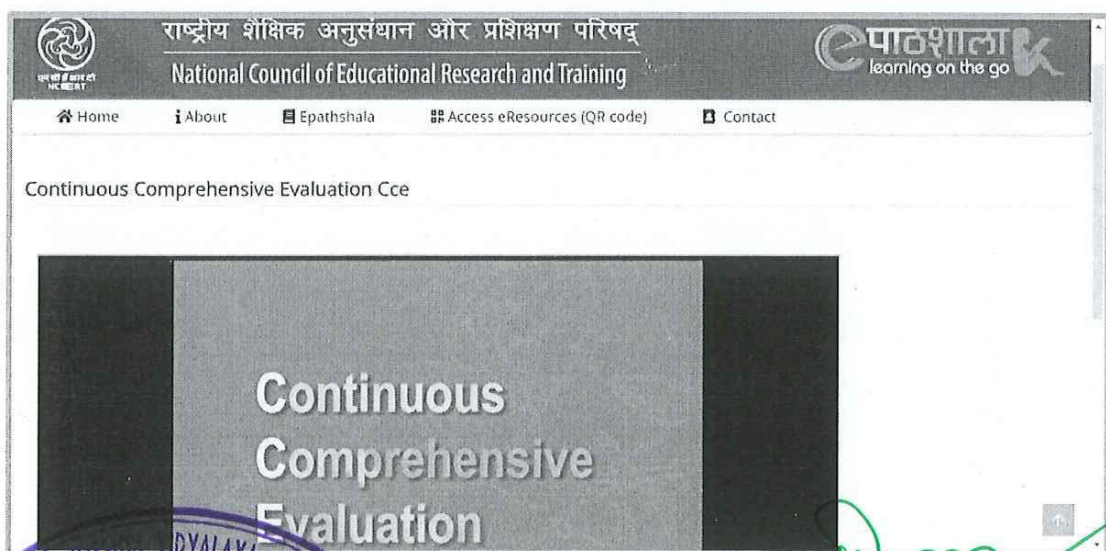



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3. Internship

School internship is an important part of B.Ed. curriculum. School Internship is designed to lead to development of a broad repertoire of perspectives, professional capacities, teacher sensibilities and skills. It is an opportunity for the practicing teachers to develop the required skills and methods of teaching. Internship will be for a minimum duration of twenty weeks. There will also include, besides practice teaching, an initial phase of one week for observing a regular classroom with a regular teacher and would also include peer observations, teacher observations and faculty observation of practice lessons. Every student-teacher is expected to serve as one of the teachers of the concerned school and integrate himself with the school system during the teaching practice. Also, they are expected to incorporate technology enhances innovative teaching learning methodologies during internship training. Considering the importance of technology in teaching learning transaction all the student-teachers have been trained with various online tools like PhET, Olabs, Diksha, Arloopa, AR Anatomy, Smartboard, Google Classroom, Blogs, Scratch, Transumaths, Geogebra, etc. that facilitate the student-teachers apply in their teaching learning process effectively during their internship. It also assisted the student-teachers to prepare digital lesson plans and teaching learning resources.

(i) Utilization of e-Pathshala

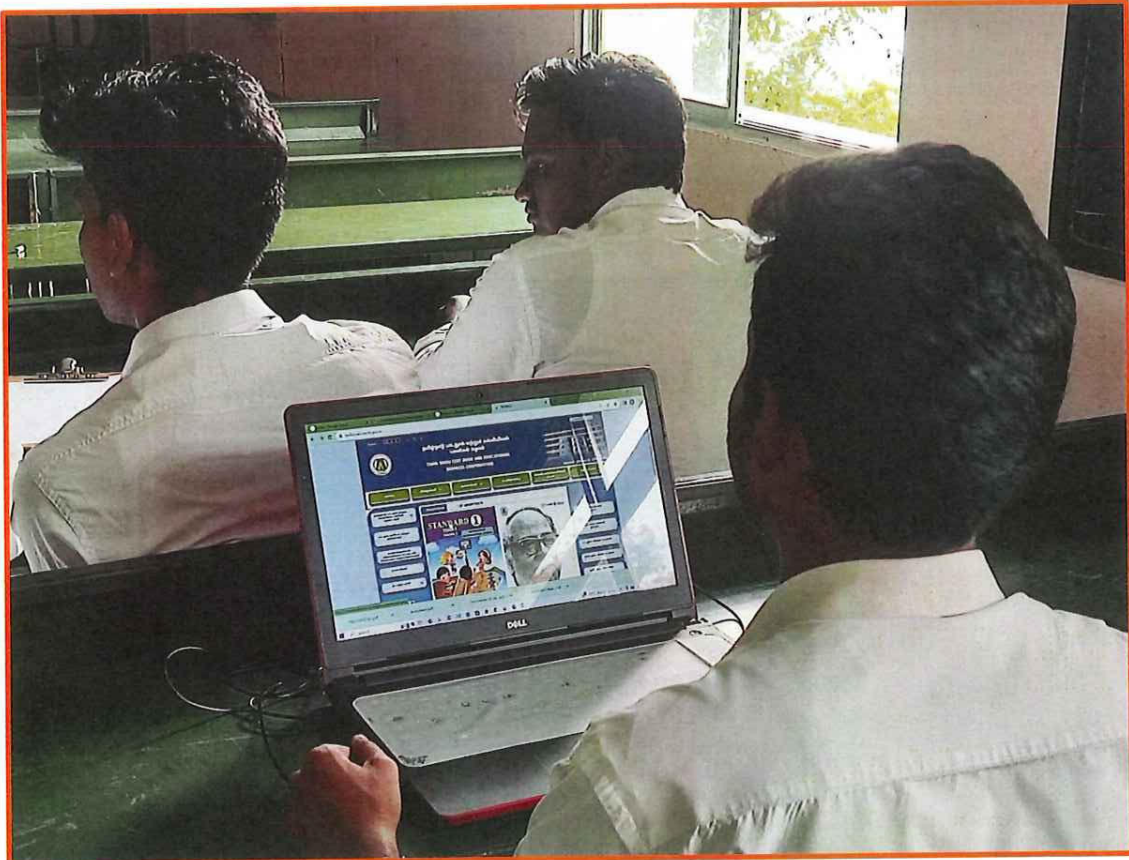


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(ii) Utilization of TNTBESC Website



https://textbookcorp.tn.gov.in/index_eng.php




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(iii) Model Lesson Plan

LESSON PLAN

Name of the student teacher: S. Arunkumar

Name of the Guide Teacher: Mrs. S. Amutha Devi M.Sc., B.Ed., M.Phil.

Name of the school: GHSS, Asokapuram.

Standard: XI

Subject: Bio-zoology

Register Number: 21BB01

Unit: Body fluids & circulation

Topic: Human circulatory system,

Date: 05.09.22 Origin & conduction of heart beat

Time duration: 40 minutes.

General Instructional objectives:

- 1). Acquires the knowledge about Anatomy of Human circulatory system.
- 2). Gains knowledge about origin and conduction of the heart beat.
- 3). Identifies the anatomical structures of Human heart.
- 4). Learns the important technical terms related to the content.

Specific Instructional objectives:

- 1). Learns to describe the anatomy of Human circulatory system.
- 2). Recognizes the anatomical structures associated with the origin and conduction of Heart beat.
- 3). Interprets the conduction pathway of Heart beat and mechanism behind it.
- 4). Develops skill to draw internal anatomy of the Heart & to describe the origin & conduction of heart beat.

Assignment: Draw a diagram of heart displaying the origin and conduction of Heart beat & internal anatomy of the Heart.



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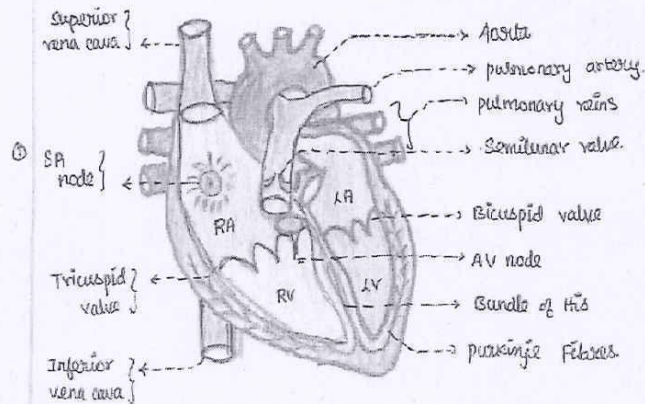
SPECIFICATIONS	CONTENT	LEARNING EXPERIENCE	EVALUATION
<p>MOTIVATION.</p> <p>Recalls</p> <p>Reclares</p>	<p>Recalls the content taught in the previous class and the previously gained knowledge about Human circulatory system, origin & conduction of the Heart beat to test the knowledge of pupil.</p> <p>Announcement of the topic.</p>	<p>The teacher shifts the pupil to answer orally by asking questions related to the Human circulatory system & origin and conduction of Heart beat.</p> <p>The teacher tells the pupil that they will learn about the detailed internal anatomy of the Human (mammalian) heart, and origin and conduction of the Heart beat through the various anatomical structures of the Human heart in detail.</p> <p>After announcing the topic, the Teacher writes the topic as "Human circulatory system, origin & conduction of heart beat" on the blackboard.</p>	<p>①. which is the first formed essential / vital organ in Humans?</p> <p>②. Human heart is how many chambered?</p> <p>③. In which side of the body heart is located?</p> <p>④. what is the function of heart?</p>
<p><u>PRESENTATION:</u></p> <p>States.</p>	<p>The mammalian heart has four chambers, right and left atria and right and left ventricles.</p> <p>The separation of chambers in the heart results in complete double circulation.</p>	<p>The teacher states the simplified, & important information about the human heart.</p> <p>https://alevelnotes.com/notes/biology/exchange-and-transport/transport-in-animals/the-mammalian-heart</p>	



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Draws

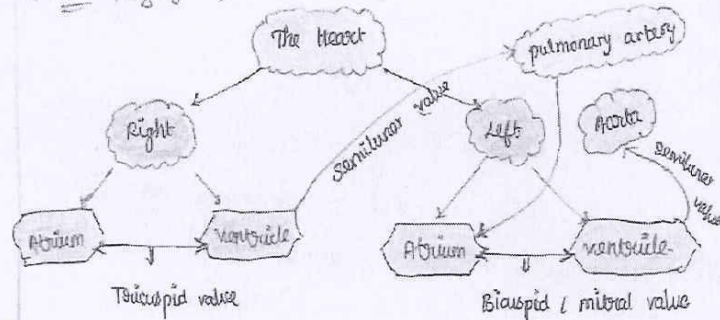
Diagram of Human (mammalian) Heart (with its origin & conduction system).



List out and explain.

- * Structure of Human Heart: (Raymond de visiens (1706),
- * situated in the thoracic cavity & apex position slightly tilted towards left.
- * Size: roughly equal to closed fist.

Concept map



The teacher draws the combined diagram of the Human heart and the origin and conduction system of heart beat present in it and make the students understand it clearly.

①. The SA node (natural pacemaker) was located in the _____

The teacher draws the concept map for the Human (mammalian) heart and explains in a concise & clear way and makes the students understand easily, by asking some objective type questions.

①. The Bicuspid value is present between _____ & _____.

②. The Bicuspid value is also called as _____



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<p>listout and explains.</p> <p>Concept map.</p>	<p><u>origin and conduction of Heart beat :</u></p> <ol style="list-style-type: none"> 1. The <u>SA node</u> \Rightarrow (pacemaker) \rightarrow Generates impulses. 2. \downarrow The impulses pause (0.1S) at the <u>atrioventricular (AV) node</u>. 3. \downarrow The AV node conducts impulses to the <u>Bundle of His</u>. 4. \downarrow The <u>Purkinje fibres</u> depolarize the contractile cells of both ventricles. 	<p>The teachers draws the concept map for the origin and conduction system of the Human heart beat</p> <p>He explained it in a consise and clear way and make the students understand easily by asking the objective type questions.</p>	<p>①. The heart-beat originates at _____ node.</p> <p>②. Natural pacemaker of the heart is known as _____ node.</p>
<p>REVIEW.</p>	<p>Human heart, chambers, septum, valves, deoxygenated blood, oxygenated blood, heart beat, depolarization, repolarization, SA node, pacemaker, AV node, Bundle of His, Purkinje Fibres.</p>	<p>The teacher has made the students to grasp the substance of the day's unit by coherently summarizing the concepts taught in the class.</p>	

Follow up activity:

- * 1). Draw the L.S of Human heart along with the origin & conduction system of Heart beat (2 times) in a Homework note.

Signature



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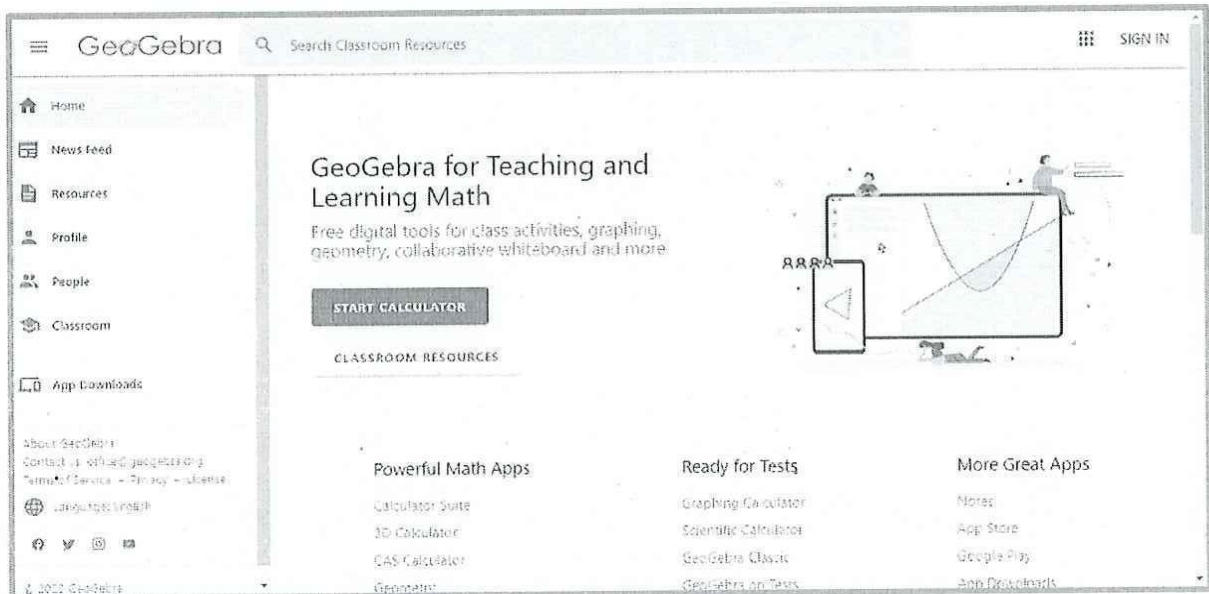
of the Guide teacher.

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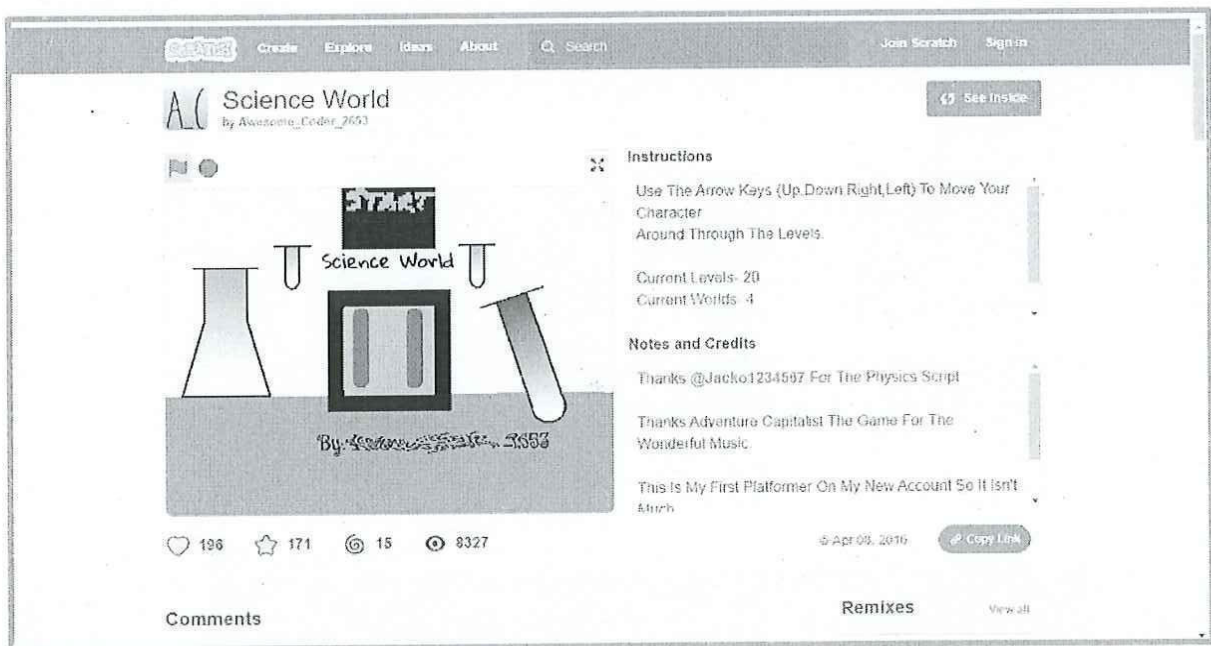
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(iv) Utilization of Online Resources

GeoGebra



Scratch



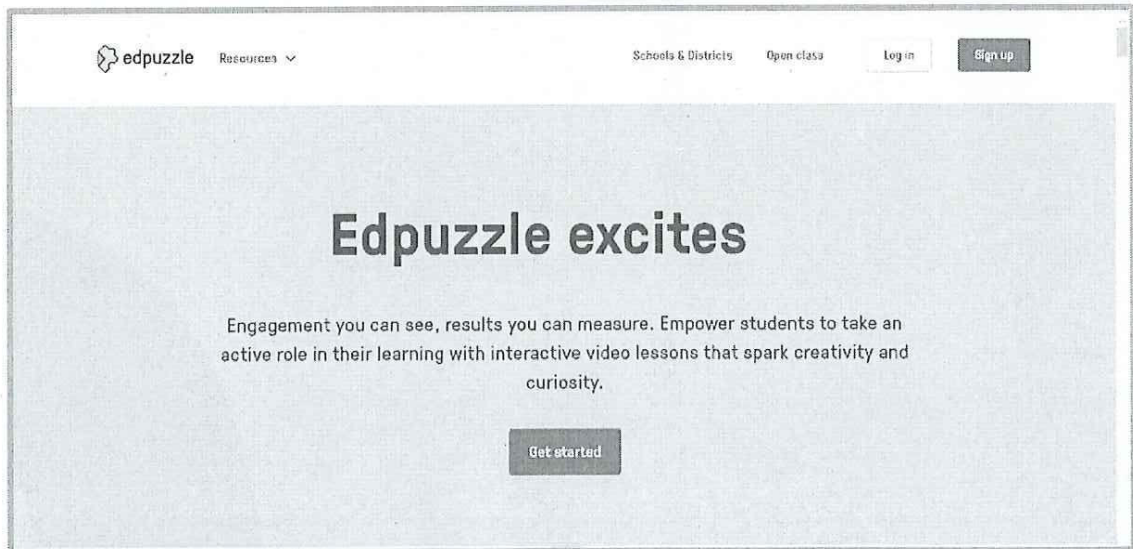
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4. Out of Classroom Activities

Learning experiences outside the classroom are forms of experiential learning. These experiences are rooted in the simple principle that “experience is the best teacher.” Teaching and learning experiences that take place outside of the confines of the classroom walls have a range of benefits for both students and instructors. When students are asked to put into practice in day-to-day life what they have theoretically learned in the classroom, the result is a student-centric learning experience that enhances learning and fosters personal and social development. The college of education trained student-teachers in utilising various ICT resources for their academic as well as non-academic purposes. They were motivated to engage in various out of classroom activities related to curriculum as well as their daily life practices. The student-teachers utilised the digital tools like Edpuzzle, Blog, Youtube, Canva, Kahoot, Padlet, N-List and other digital resources to enhance their knowledge and share their gained knowledge.

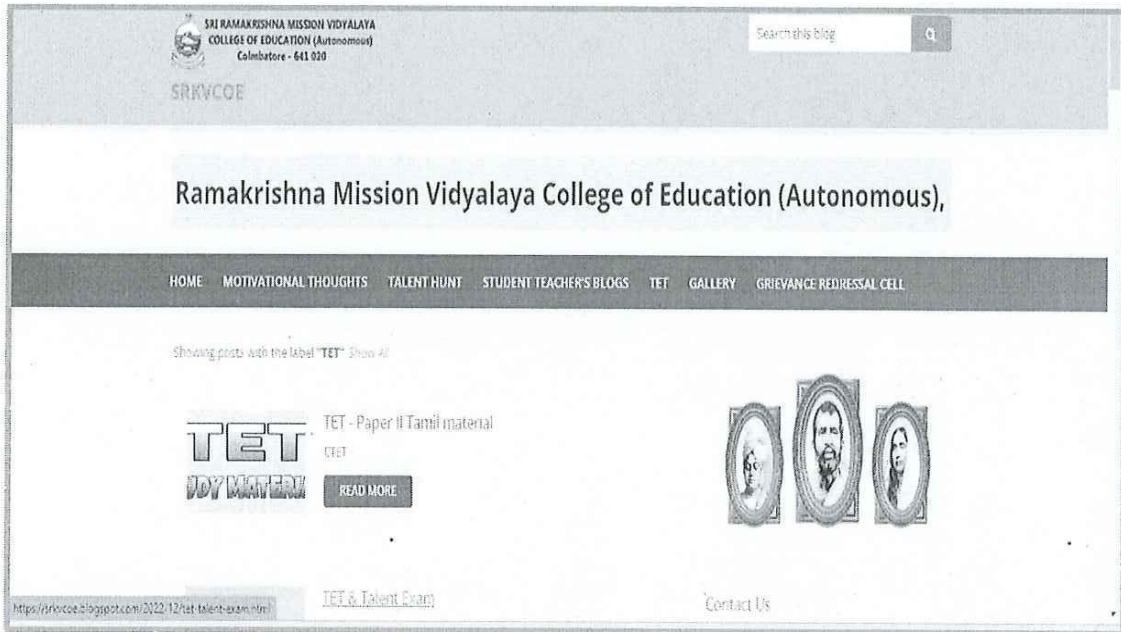
Utilization of Online Resources

Edpuzzle

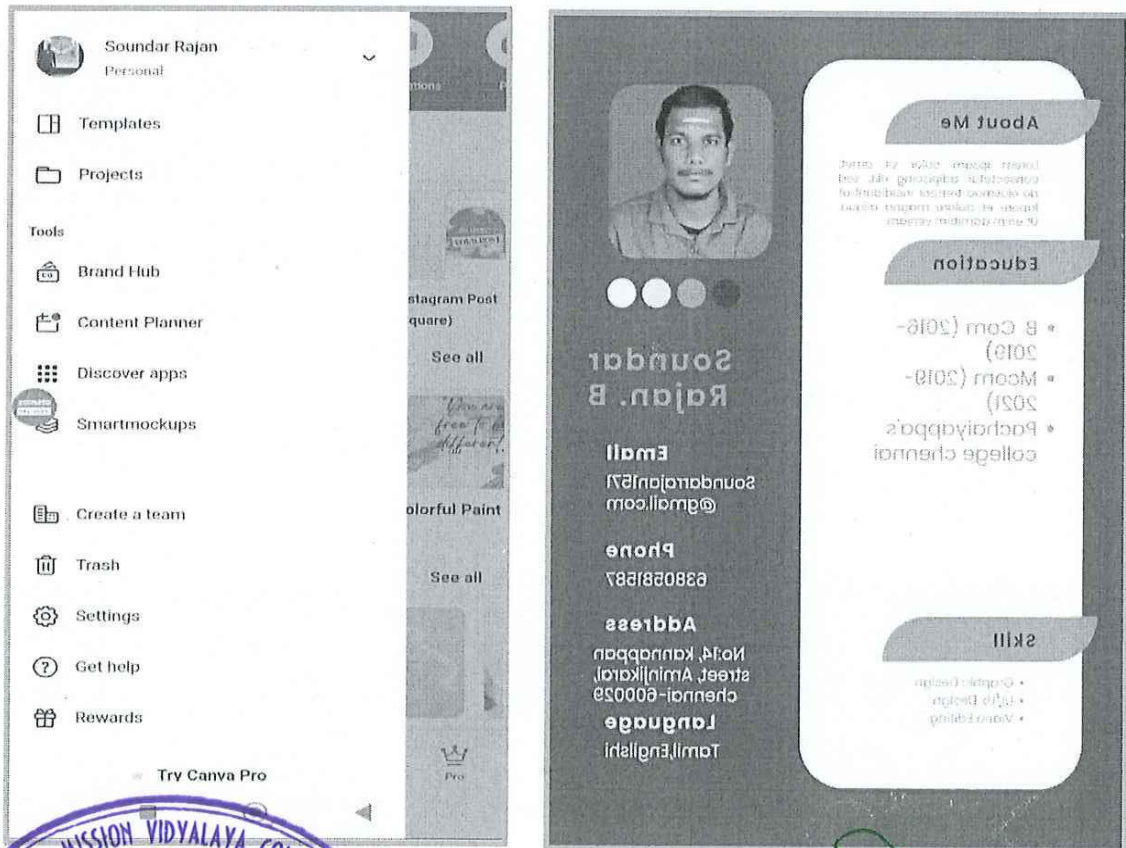



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Blog



Canva



Profile Prepared by Sri B. Soundar Rajan, B.Ed. II year Student-Teacher

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Kahoot

3/28/23, 3:59 PM Ar raghul quizz - Details - Kahoot!

Students Tools

Ar raghul quizz

3 plays • 3 players

A public kahoot

Questions (10)

Quiz

Boxite is an ore of

20 sec

2 - Quiz

Which one element is also known as fools gold

3 - Quiz

Among the following which one is the richest source of protein

20 sec

4 - Quiz

Sodium metal is stored in

20 sec

5 - Quiz

Which of the following disease is not caused by virus

20 sec

6 - Quiz

Heavy water was discovered by

20 sec

7 - Quiz

Which of the following is used as an explosive

3/28/23, 3:59 PM Ar raghul quizz - Details - Kahoot!

8 - Quiz

Very small time intervals accurately measured by the

20 sec

9 - Quiz

The device which does not have frequency dependent properties of its own is known as

20 sec

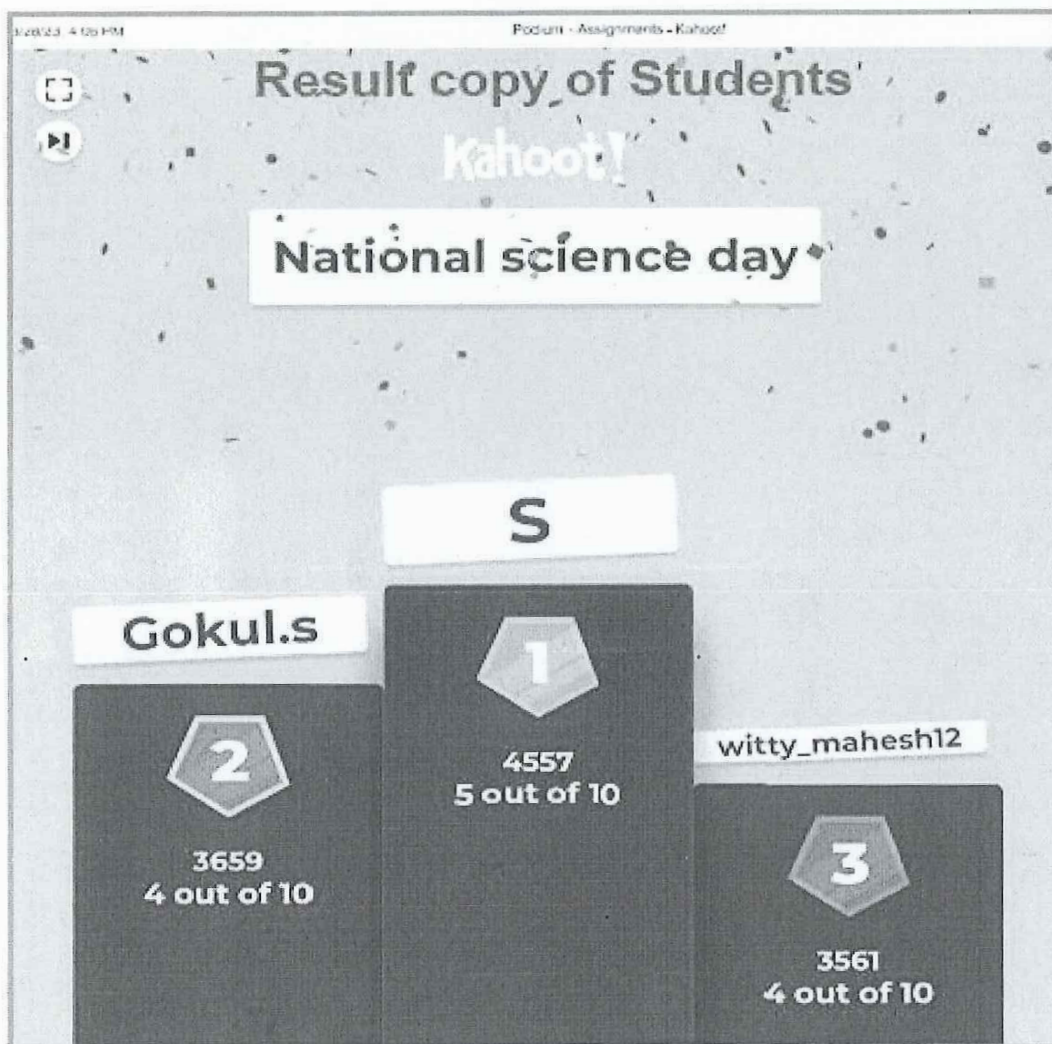
10 - Quiz

Transformer works on the principle of

20 sec



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Padlet

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ESWARAN V SRKV + 2 • 1d

Pedagogy of Mathematics

This web site help to understand the concept through online mood , it's really helps in our holidays make useful

Z2EM03
VISHNU J

Usage

This website helps to learn about teaching of mathematics through virtual mode and it's effective in using of digital tools

Name : N.SARAN
Reg No : Z2EM02

Go through this site and post here what did you learn from this site



<https://padlet.com/dreswaransrkv/pedagogy-of-mathematics-164yvqjw3n>

[Signature]
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5. Biomechanical and Kinesiological Activities

Kinesiology is the term referring to the whole scholarly area of human movement study, while Biomechanics is the study of the structure, function and motion, of the mechanical aspects of biological systems, at any level from whole organisms to organs, cells and cell organelles, using the methods of mechanics. It provides key information on the most effective and safest movement patterns, equipment, and relevant exercises to improve human movement. Considering the importance of physical health of our student-teachers, they were oriented to keep their physical health fit. To make them aware of physical fitness, and various strategies to keep good physique, the student-teachers were provided with an opportunity to visit the Maruthi College of Physical Education where they were trained in using ICT enabled biomechanical and kinesiological activities. Also, the student-teachers utilised the video resources available in online with the guidance of the Director of Physical Education in our college of education.



Hands-on Training given by Dr. M. Srinivasan, Assistant Professor,
Maruthi College of Education, Coimbatore

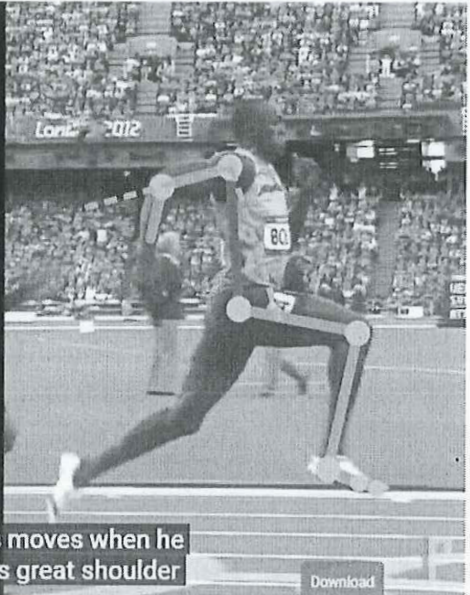



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Utilization of YouTube for Understanding Biomechanical and Kinesiological Activities

YouTube Search

SHOULDER MOBILITY



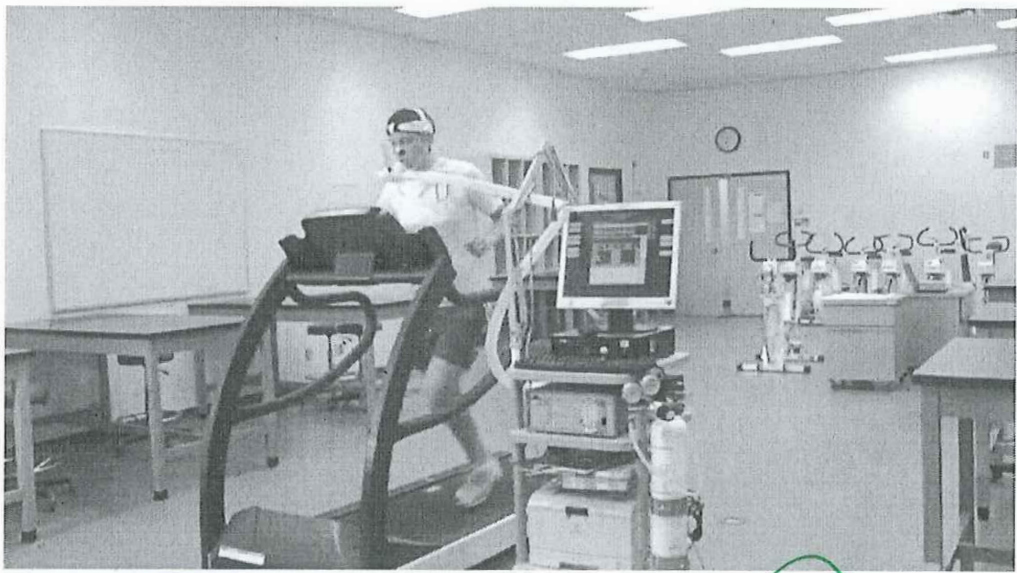
of how far his shoulders moves when he runs, you can see he has great shoulder

Download

Running Analysis: The FASTEST Man in the World

<https://www.youtube.com/watch?v=KMDnPnRaKj0>

YouTube Search



Exercise Physiology Lab VO2 Max Test

<https://www.youtube.com/watch?v=6LtcOoJq1go>

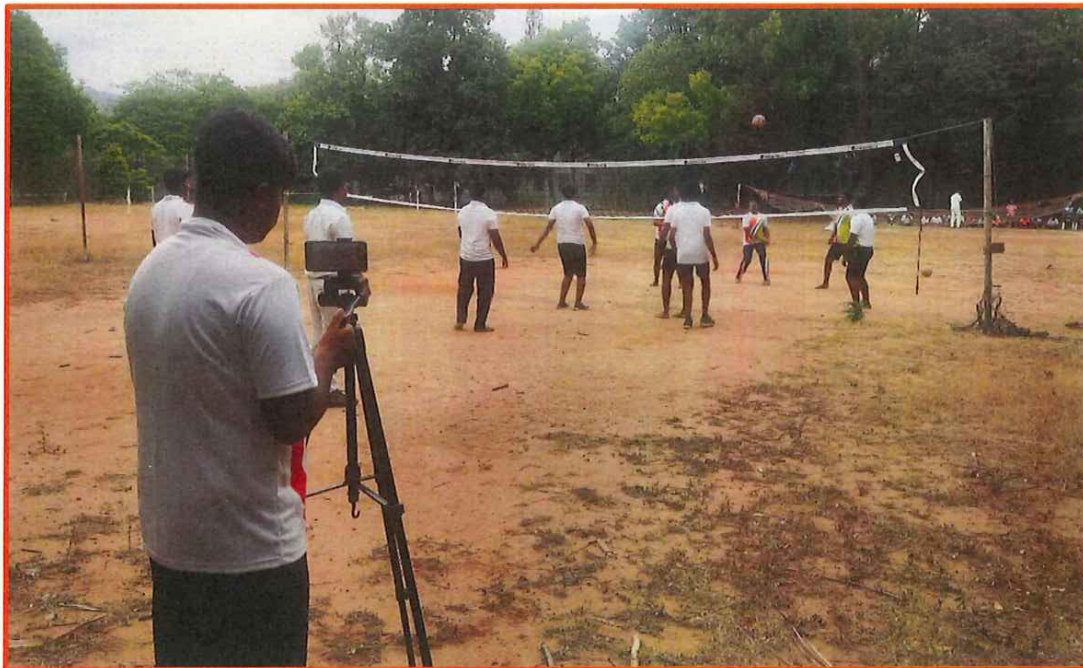


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6. Field Sports


Students can perform better in academics by including sports in their daily routines. Sports will keep their mind fresh, and physically fit, and add discipline to their study routine. Skills such as coordination, multitasking and situational awareness will help in enhancing their academic skills. Considering the importance of sports, the college of education provided opportunities for student-teachers in engaging various sports activities and competitions. During the competitions the student-teachers utilised various digital gadgets like smartphone, digital camera and recording tools to record the performance of the players and to offer feedbacks. By using applications like kinemaster, inshot and other applications, the student-teachers can able to digitalise the sports performance / activities that enhances their ICT utilization. Also, the student-teachers used various ICT resources like youtube and other video resources in various learning situations that support their skill enhancement.

Utilization of Smartphone for recording and clipping photos



Sri S. Arunkumar, B.Ed. I year Student-Teacher Recorded the Sports Event




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