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

NAAC
3rd Cycle

Criterion III
Metric 3.1.4

CRITERION III

RESEARCH AND OUTREACH ACTIVITIES

3.1 - Resource Mobilisation for Research

3.1.4 Institution has created an eco-system for innovation and other initiatives for creation and transfer of knowledge that include

1. **Participative efforts (brain storming, think tank etc.) to identify possible and needed innovations**

2. **Encouragement to novel ideas**

3. **Official approval and support for innovative try-outs**

4. **Material and procedural supports**

Details of reports highlighting the claims made by the institution

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NAAC
3rd Cycle

Criterion III
Metric 3.1.4

3.1.4   Institution has created an eco-system for innovation and other initiatives for creation and transfer of knowledge that include….

Sl.No	Name of the Programme/ Initiative
1	**Participative Efforts (Brain Storming, Think Tank etc.) to identify possible and needed innovations**
	a) FDP on Quality Mandate for Higher Education Institutions in India
	b) FDP on Analytical, Critical, Lateral and Design Thinking
	c) Seminar on Best Practices for Quality Management in Vidyalaya Higher Educational Institutions
2	**Encouragement to Novel Ideas**
	a) Stimulation of Analytical Thinking through Mathematics among School Students
	b) Active Learning Programme
	c) SHODHVID
3	**Official Approval and Support for Innovative Try-Outs**
	a) Active Learning Scale-up Programme
4	**Material and Procedural Supports**
	a) Library Learning Resource Centre
	b) Publication of Quarterly Journal "Journal of Educational Research and Extension"
	c) Laboratory Facilities – STEM Lab, Computer Lab, Language Lab Subject Specific Laboratories

3.1.4 Institution has created an eco-system for innovation and other initiatives for creation and transfer of knowledge that include….

I	Participative Efforts (Brain Storming, Think Tank etc.) to identify possible and needed innovations
a)	FDP on Quality Mandate for Higher Education Institutions in India
b)	FDP on Analytical, Critical, Lateral and Design Thinking
c)	Seminar on Best Practices for Quality Management in Vidyalaya Higher Educational Institutions

Faculty Development Programme (FDP)
on
"Quality Mandate for Higher Education Institutions in India"
Organised by
Internal Quality Assurance Cell (IQAC)
05.02.2022

Objectives
- To present and discuss the Quality Mandate and its initiatives among the faculty members of Higher Educational Institutions
- To deliberate the possible methods to implement the points in the academic activities of their respective institutions.

Participants
Faculty members of all Sri Ramakrishna Mission Vidyalaya Higher Educational Institutions, Coimbatore. No. of Participants - 64

Presenters

Programme Schedule

Welcome Address	:	Dr. G. Subramonian Principal, SRMV College of Education.
Theme of the Programme	:	Dr. R. Sridhar Director, SRMV College of Arts and Science (SF Wing).
Quality Improvement Programmes in Higher Education	:	Dr. M. Jagadesh Assistant Professor in Education, SRMV College of Education.
Discussion		
Values and Ethics for Quality Higher Education	:	Dr. C. R. Sakthivel Head, Department of Computer Science (SF), SRMV College of Arts and Science.
Discussion		
Students' Induction Programme in Higher Education Institutes	:	Dr. K. Karthigeyan Assistant Professor in Education, SRMV College of Education.
Discussion		
Break		

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The Role of ICT in Higher Education in India	:	Sri. N. Rajesh Kumar Assistant Professor in Biological Science, SRMV College of Education.
Discussion		
University-Society Connect	:	Dr. S. Swaminathan Librarian, SRMV College of Education.
Discussion		
Research and Innovation in Universities: Why and How these should be Promoted?	:	Dr. K. Navaneetha Pandiyaraj Assistant Professor, Department of Physics, SRMV College of Arts and Science.
Discussion		
Capacity Building of Faculty from Higher Education	:	Dr. M. Chandran Associate Professor, Department of Computer Application, SRMV College of Arts and Science.
Discussion		
Life Skills	:	Dr. J. B. Chandra Sekar Assistant Professor, Department of Social Work, SRMV College of Arts and Science.
Discussion		
Lunch		
Evaluation Reforms in Higher Education	:	Dr. G. Raja Assistant Professor, Department of Chemistry, SRMV College of Arts and Science.
Discussion		
Education System - Student Tracking and Alumni Network	:	Dr. A. Balagurusamy Associate Professor & Head, Department of Commerce, SRMV College of Arts and Science.
Discussion		
Capacity Building of Teaching Fraternity and Quality in Internationalization	:	Dr. M. Jaikumar Associate Professor, Department of Computer Application, SRMV College of Arts and Science.
Discussion		
Break		
Systems Approach to Skilling and Vocational Education in India	:	Dr. R. Sridhar Director, SRMV College of Arts and Science (SF Wing).
Discussion		
Valedictory		

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Faculty Development Programme (FDP)
on
"Quality Mandate for Higher Education Institutions in India"
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Internal Quality Assurance Cell (IQAC)

Welcome Address
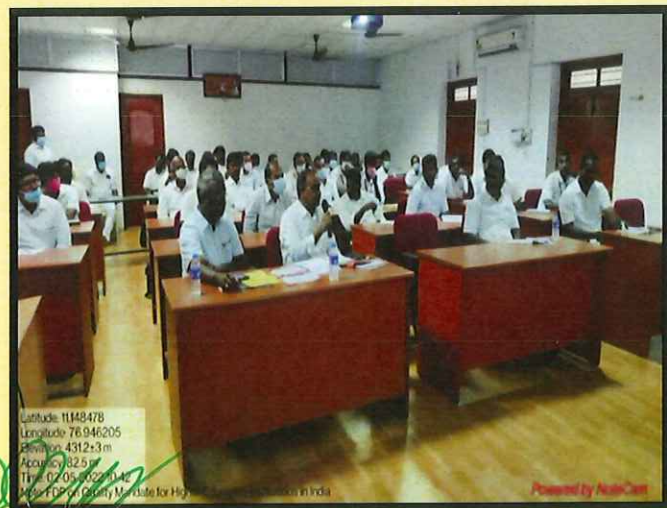

Introducing the Theme

Dr. M. Jagadesh

Dr. S. Swaminathan

Dr. G. Raja

Faculty Interaction

Principal
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College of Education (Autonomous)
Coimbatore-641 020.

Objectives

- To understand the different types of thinking.
- To instill Analytical, Lateral, Critical and Design Thinking among faculty members which can be incorporated in classrooms.

Participatory Members

Presentation & Discussion	:	Dr. M. Jagadesh, Assistant Professor in Education SRMV College of Education
	:	Dr. R. Sridhar, Director, SRMV College of Arts and Science (SF Wing)
	:	Sri. N. Rajesh Kumar, Assistant Professor in Biological Science, SRMV College of Education
	:	Dr. R. Ayyappan, Assistant Professor in Physical Science, SRMV College of Education
	:	Dr. R. Nirmal Kumar, Assistant Professor in Mathematics, SRMV College of Arts and Science

Participants

Faculty members from SRMV College of Arts and Science, SRMV Maruthi College of Physical Education, SRMV Polytechnic College, SRMV Swami Shivananda School and SRMV College of Education. No. of participants – 35.

Report

The Faculty Development Programme on "Analytical, Critical, Lateral and Design Thinking" was held on 25.09.2022 in the College Conference Hall. A total of Thirty-five (35) participants from various higher education institutions and schools of Ramakrishna Mission Vidyalaya campus participated in the programme.

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The programme began with Prayer. Dr. G. Subramonian, Principal, Sri Ramakrishna Mission Vidyalaya College of Education welcomed the gathering and introduced the theme of the programme.

Dr. M. Jagadesh, Assistant Professor in Education briefly elucidated the significance of the programme and invited all the participants to actively engage in brain storming sessions and have healthy discussion on the theme of the programme.

Dr. R. Sridhar, Director, SRMV College of Arts and Science (SF Wing) presented his views on the programme theme. He has elaborately presented all the four thinking concepts namely Analytical, Critical, Lateral and Design Thinking with suitable examples from the field of Computer Science. He explained about the interconnecting concepts of the FDP concepts.

Dr. M. Jagadesh, Assistant Professor in Education, SRMV College of Education elucidated four types of thinking process through brain storming session and explained about the process of thinking with the higher order and lower order thinking skills of Bloom's Taxonomy. Participants were engaged in the brain storming activities and answered to the questions in diverse perspectives. Discussions were made on different types of thinking.

Sri. N. Rajesh Kumar, Assistant Professor in Biological Science, SRMV College of Education presented his understanding of four types of thinking. He presented brain storming questions in relation with Science concepts and correlated with different thinking.

Dr. R. Ayyappan, Assistant Professor in Physical Science, SRMV College of Education demonstrated the concept of 'Solar System' and explained how teachers can apply different activities to develop students analytical, critical and lateral thinking.

Dr. R. Nirmal Kumar, Assistant Professor in Mathematics, SRMV College of Arts and Science explained about critical and analytical thinking in Mathematics with suitable and simple examples.

The programme ended with formal a vote of thanks by Dr. K. Karthigeyan, Assistant Professor in Education, SRKV College of Education.

Outcomes

Deliberations were made on the concepts by the faculty members and participants were actively engaged in clarifying their doubts. All the participants got an understanding of the theme and the ways in which they could be incorporated in their teaching and learning process of their specified subjects.

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FDP on
Analytical, Critical, Lateral and Design Thinking
25.09.2022

Dr. M. Jagadesh

Dr. S. Sridhar

Dr. R. Ayyappan

Principal
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Faculty Development Programme on
Analytical, Lateral, Critical and Design Thinking
Phase – II 20.11.2022

Objectives

- To understand the different types of thinking.
- To instill Analytical, Lateral, Critical and Design Thinking among faculty members which can be incorporated in classrooms.

Resource Persons

Time	Faculty
04.00 pm – 4.15 pm	Dr. M. Jagadesh Assistant Professor, SRKV College of Education *Minutes of the previous session and* *Introducing the theme of the FDP*
4.15 pm – 04.30 pm	Dr. A. Murugesh Assistant Professor, SRMV College of Arts and Science
04.30 pm – 04.45 pm	Sri. V. Eswaran Assistant Professor, SRKV College of Education
04.45 pm – 05.00 pm	Dr. M. Srinivasan Assistant Professor, SRMV Maruthi College of Physical Education
05.00 pm – 05.15 pm	*Tea-break*
05.15 pm – 05.30 pm	Dr. K. Karthigeyan Assistant Professor, SRKV College of Education
05.30 pm – 05.45 pm	Dr. P. Vel Murugan Assistant Professor, SRKV College of Education
05.45 pm – 06.00 pm	*Discussions and deliberations*

Participants

Faculty members from SRMV College of Arts and Science, SRMV Maruthi College of Physical Education, SRMV Polytechnic College, SRMV Swami Shivananda School and SRMV College of Education. No. of participants – 31.

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Report of the Programme

The programme began with Prayer. Dr. G. Subramonian, Principal, Sri Ramakrishna Mission Vidyalaya College of Education welcomed the gathering and introduced the theme of the programme.

Dr. M. Jagadesh, Assistant Professor in Education briefly elucidated the significance of the programme and invited all the participants to actively engage in brain storming sessions and have healthy discussion on the theme of the programme. He introduced the terms Analytical, Critical, Lateral, Divergent, Convergent and Design Thinking.

Dr. A. Murugesh Anna, Assistant Professor in Chemistry, SRMV College of Arts and Science comprehensively elucidated the Analytical, Critical, Lateral and Design Thinking on Stereochemistry. He discussed about R-S Configuration, Design Thinking in Chan-Ingold-Prelog System. Participants interacted with Anna to find the solutions in chemistry through critical and Analytical Thinking.

Sri. V. Eswaran Anna, Assistant Professor in Mathematics, SRMV College of Education shared his views on different types of thinking in Mathematics. He explained the Judgement of Solomon story using Lateral Thinking. Additional inputs were given to solve De Bono's Puzzle. Strategies to be adopted for Design Thinking was elucidated.

Dr. M. Srinivasan, Assistant Professor, SRMV Maruthi College of Physical Education gave a video representation of how players use Critical, Analytical, Lateral and Design Thinking in sports. He explained how a good thinker in sports will outperform his opponents when he properly masters the different thinking styles. Dr.

K. Karthigeyan, Assistant Professor, SRMV College of Education explained the use of different thinking patterns in Teaching English. He also emphasized Analytical Thinking for English Teaching in areas like Blood Relations, Analogy, coding-decoding, word series etc.,

Dr. P. Vel Murugan, Assistant Professor, SRMV College of Education explained the different types of thinking styles in teaching Social Science. He stressed the use of brain-storming techniques for teaching Social Science.

The programme ended with formal a vote of thanks by Dr. K. Karthigeyan, Assistant Professor in Education, SRKV College of Education.

Outcomes

Unique resources and techniques were shared in the session. Concepts discussed were to be positively implemented in the classrooms. Healthy and constructive discussions prevailed among the participants. The Phase II of this FDP was much more refined in terms of presentations and concept clarity.

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Faculty Development Programme on Analytical, Lateral, Critical and Design Thinking
20.11.2022

Session 1 Dr. M. Jagadesh

Session 2 Dr. A. Murugesh

Session 3 Sri. V. Eswaran

Session 4 Dr. M. Srinivasan

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Seminar Series on "Best Practices for Quality Management in Vidyalaya Higher Educational Institutions" (*Seminar Series – 1, 2 & 3*)

Objectives

- To showcase the best practices from each Higher Educational Institution based on Assessment and Accreditation parameters.
- To successfully implement the best practices in their respective institutions learnt from the seminar series.

Participants

Heads of the institutions, IQAC Coordinators, Senior Faculty members and Criterion Managers of Vidyalaya Higher Educational Institutions.
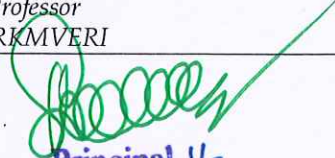
Seminar Series

Series -1   26.11.2022

S.No	Presentation	
1	*Criterion I: Best Practices in Curricular Aspects* **Strengthening extended curriculum by incorporating specific outreach programmes and appropriately using the outcomes of stakeholders' feedback**	Dr. A. Sudha *Assistant Professor* *FDMSE - RKMVERI*
2	*Criterion II: Best Practices in Teaching – Learning and Evaluation* **Multi-pronged assessment and relevant teaching methods for Physical Education Teacher Trainees**	Dr. T. Jayabal *IQAC Coordinator* *SRMV Maruthi College of Physical Education*
3	*Criterion III: Best Practices in Research, Innovations and Extension* **Quality Enhancement through Research, Innovations and Extension**	Dr. M. Sethu Raman *IQAC Coordinator* *SRMV College of Arts and Science*
4	*Criterion IV: Best Practices in Infrastructure and Learning Resources* **A Model: Integrated Learning Environment**	Dr. R. Sridhar *Director – SF Wing* *SRMV College of Arts and Science*
5	*Criterion V: Best Practices in Student Support and Progression* **Developing Research Competencies among Post Graduate Teacher Trainees**	Dr. A. Sathiya Moorthy *Assistant Professor* *GAPEY - RKMVERI*
6	*Criterion VI: Best Practices in Governance, Leadership and Management*	Dr. Saumya Chandra *Assistant Professor* *FDMSE - RKMVERI*

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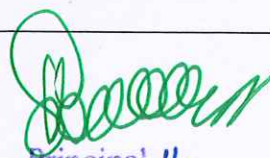| S.No	Title	
	Empowering the Differently Abled with selective technical & professional skills	
7	*Criterion VII: Best Practices in Institutional Values and Best Practices* **Institution - Society Connect**	Dr. M. Jagadesh IQAC Coordinator SRMV College of Education

Series – 2   **24.12.2022**

S.No	Title	
1	*Criterion I: Best Practices in Curricular Aspects* **Enhancing Capacity to Attain Employability Skills**	Sri. N. Rajesh Kumar Assistant Professor SRMV College of Education
2	*Criterion II: Best Practices in Teaching – Learning and Evaluation* **Enhancing Teaching Competencies through Experiential Learning Using Cross Disability Approach**	Dr. S. Parween Assistant Professor FDMSE - RKMVERI
3	*Criterion III: Best Practices in Research, Innovations and Extension* **Research Activities Using Latest Equipment of Sport Sciences Laboratories**	Dr. E. Amudhan Assistant Professor SRMV Maruthi College of Physical Education
4	*Criterion IV: Best Practices in Infrastructure and Learning Resources* **Infrastructure and Learning Resources**	Dr. A.V. Ramani Associate Professor SRMV College of Arts and Science
5	*Criterion V: Best Practices in Student Support and Progression* **Student Capacity Development and Skill Enhancement Activity through Additional Credits**	Dr. C.R. Sakthivel & Dr. M. Chandran Associate Professors SRMV College of Arts and Science
6	*Criterion VI: Best Practices in Governance, Leadership and Management* **Professional Empowerment Strategy for Teachers and Prospective-Teachers**	Dr. S. Sivasankar Director of Physical Education SRMV College of Education
7	*Criterion VII: Best Practices in Institutional Values and Best Practices* **Developing Functional Skills for Persons with Disabilities through Synchronized Physical and Rhythmic Activities Coupled with Multi-Sensory Therapies**	Dr. A. Sathiya Moorthy Assistant Professor GAPEY - RKMVERI

Series – 3   **04.02.2023**

S.No	Title	
1	*Criterion I: Best Practices in Curricular Aspects* **Experiential Based Modular Curriculum**	Dr. R. Giridharan Associate Professor and Head GAPEY - RKMVERI
2	*Criterion II: Best Practices in Teaching – Learning and Evaluation* **Students' Performance Assessment**	Dr. P. Vel Murugan Assistant Professor SRMV College of Education
3	*Criterion III: Best Practices in Research, Innovations and Extension* **Enhancing Research Practices through Supportive Services among Teacher Trainees**	Dr. S. Logesh Kumar Assistant Professor FDMSE - RKMVERI

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4	*Criterion IV: Best Practices in Infrastructure and Learning Resources* **Best Practices Adopted in the Library and Digital Learning Resources**	*Dr. A. Velayutham* *Librarian* *SRMV Maruthi College of Physical Education*
5	*Criterion V: Best Practices in Student Support and Progression* **Quality Enhancement through Students' Support and Progression**	*Dr. M. Sethu Raman* *Coordinator – IQAC* *SRMV College of Arts and Science*
6	*Criterion VI: Best Practices in Governance, Leadership and Management* **Strategy Development and Deployment**	*Dr. M. Jaikumar* *Associate Professor* *SRMV College of Arts and Science (SF Wing)*
7	*Criterion VII: Best Practices in Institutional Values and Best Practices* **Work Integrated Learning**	*Dr. A. Balagurusamy* *Associate Professor* *SRMV College of Arts and Science (SF Wing)*

Outcomes

The faculty members witnessed different best practices followed in Vidyalaya Higher Educational Institutions. They had an exhaustive know -how of the practices involved in other institutions. Faculty members will start implementing the feasible best practices in their institutions.

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Seminar Series on
"Best Practices for Quality Management in
Vidyalaya Higher Educational Institutions"
Organized by
IQAC

Series 1 – Criterion I

Series 1 – Criterion III

Series 2 – Criterion IV

Series 2 – Criterion V

Series 3 – Criterion VI

Series 3 – Criterion VII

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3.1.4 Institution has created an eco-system for innovation and other initiatives for creation and transfer of knowledge that include....

II	Encouragement to Novel Ideas
a)	Stimulation of Analytical Thinking through Mathematics among School Students
b)	Active Learning Programme
c)	SHODHVID

SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF EDUCATION (AUTONOMOUS)
Coimbatore - 641 020

Stimulation of Analytical Thinking through Mathematics among School Students

Introduction:

Analytical thinking is a crucial skill that enables individuals to approach complex problems and challenges by breaking them down into smaller parts, analyzing them, and then putting them back together to form a solution. It is an essential skill for students to develop, as it helps them think critically and creatively, and it is useful in various academic and professional pursuits. In recognition of the importance of analytical thinking skills, Sri Ramakrishna Mission Vidyalaya College of Education initiated classes to develop these skills among school students.

Objectives:

➢ To promote analytical thinking skills among students from the sixth standard to the ninth standard.

➢ To enhance the pedagogical abilities of B.Ed. Student teachers and faculty members in delivering Mathematics education that stimulates analytical thinking.

➢ To create a competency-based educational approach that seamlessly incorporates analytical thinking strategies into the teaching of Mathematics.

➢ To establish a nurturing and participative learning setting that encourages teamwork, creativity and the development of problem-solving abilities

➢ To appraise students' advancements and offer them feedback by employing evaluation and feedback methods.

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Methodology:

a) Curriculum Integration:

A team of Mathematics educators, and experts and analytical thinking collaborates to integrate analytical thinking skills in existing curriculum that aligns with the national educational standards and promotes higher order thinking skills. The curriculum incorporates interactive teaching methods, problem-solving activities, and real-world applications of Mathematics.

b) Teacher Training:

Student teachers and faculty members received specialized training in instructional strategies that foster analytical thinking in Mathematics. The training included periodical workshops and orientations to equip teachers with the necessary skills to implement the programme effectively.

c) Implementation:

The programme implemented in campus schools, covering students from the first standard to the ninth standard. Teachers deliver the curriculum using a student-centered approach, encouraging active participation, critical thinking and analytical reasoning. The lessons designed to engage students in challenging problem-solving tasks and promote higher-order thinking skills.

d) Assessment and Feedback:

Ongoing assessment tools, such as formative and summative assessments, utilized to monitor students' progress and provide feedback.

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The primary goal of Analytical Thinking classes is to develop analytical thinking skill among school students through teaching Mathematical concepts. Mathematical abilities are essential because they provide structure for rationally solving problems. It helps in the conceptualization of several areas that include verbal components such as numerical knowledge, counting and reasoning as well as non-verbal components such as Mathematical notation, reasoning in time and space, calculation, and so on.

Mathematical exercises such as puzzles, riddles, and open-ended inquiries, finding patterns, brainstorming ideas, analysing data, and making situational decisions among students were planned and executed. Application of analytical thinking components paves the way for enhancing the IQ levels. It supports the growth of pupils' critical and creative thinking. It teaches children how to think differently in a diverse range of situations. Utilization of advanced technology in analytical classes stimulates the interest, curiosity and helps pupils to familiarize Mathematical concepts easily.

Phase I : Trainer Training Programme:

Regular Trainer's Training Programme on Stimulating Analytical Thinking through Mathematics is conducted for student teachers and question paper setters. The Programme coordinated by Sri. V. Eswaran, Assistant Professor in Mathematics and organized by the Internal Quality Assurance Cell, Sri Ramakrishna Mission Vidyalaya College of Education.

The programme has been designed to introduce teaching strategies and syllabus related to stimulating analytical thinking through Mathematics. It will cover various topics including the introduction to Moodle (LMS), hands-on training in Google Sheet, Google quiz and question bank preparation using various resources. The aim of the programme is to equip Student – teachers and Research scholars with the necessary skills and knowledge to promote analytical thinking and problem-solving abilities among school students through Mathematics.

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Phase – II : Implementation of Programme

Sri Ramakrishna Mission Vidyalaya College of Education initiated organising the Classes on "Stimulation of Analytical Thinking through Mathematics among School Students" for sixth grade students to ninth grade students of Sri Ramakrishna Mission Vidyalaya Swami Shivananda Higher Secondary School. Student-Teachers from Sri Ramakrishna Mission Vidyalaya College of Education and Ph.D Scholars from Department of Mathematics, Sri Ramakrishna Mission Vidyalaya College of Arts and Science has been handling the Analytical Thinking Classes weekly once for a period of 45 minutes duration. Analytical Thinking Tests were conducted through online mode twice in a month to assess pupils' progress. The programme coordinated by Sri. V. Eswaran, Assistant Professor in Mathematics.

Beneficiaries:
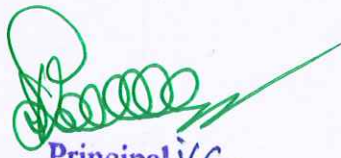
Following is the number of students benefited from stimulation of Analytical Thinking through Mathematics.

Class	Boys	Girls	Total
VI	122	56	178
VII	113	38	151
VIII	132	38	170
IX	162	72	234
Total	529	204	733

Impact:

The analytical thinking classes organized by Sri Ramakrishna Mission Vidyalaya College of Education helped students develop analytical thinking skills. The online analytical thinking tests conducted twice a month helped assess the progress of students. The students have shown improvement in their analytical thinking skills, which is evident from the progress shown in the analytical thinking tests conducted online.

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Moreover, the classes also helped students in enhancing their IQ levels, which will be helpful in their future academic and professional pursuits. Analytical thinking skills help students to think critically and creatively, which is essential in various areas of their life. By developing analytical thinking skills, students will be able to tackle challenges with more ease, which will help them achieve their goals. The use of advanced technology in analytical classes has made the classes more interesting and engaging for students. The students were introduced to new tools, such as educational apps, that allowed them to learn and practice analytical thinking skills in a funny and interactive way. By incorporating technology, the classes were able to stimulate the interest and curiosity of students, which helped them familiarize themselves with Mathematical concepts more easily.

Roles and Responsibilities:

Sri. V. Eswaran, as the coordinator of the programme, played a crucial role in planning, organizing, and overseeing its execution. The B.Ed. student teachers (Mathematics and Physical Science) from Sri Ramakrishna Mission Vidyalaya College of Education actively participated in the programme by conducting analytical thinking classes for the students. Mathematics student teachers were responsible for preparing the analytical thinking question papers and conducting online tests. Their efforts were closely guided and supervised by Sri. V. Eswaran, Assistant Professor in Mathematics.

Outcomes of the Programme:

➢ Improved analytical thinking skills among school students and student teachers leading to enhanced problem-solving abilities and critical thinking.

➢ Increased engagement and motivation among students due to the interactive and challenging nature of the curriculum.

➢ Strengthened Mathematical foundations, as students learn to apply analytical thinking strategies to solve complex problems.

➢ Enhanced pedagogical skills of student teachers, resulting in more effective delivery of Mathematics education that stimulates analytical thinking.

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Glimpses

Stimulation of Analytical Thinking through Mathematics among School Students

Trainer Training Programme

Thinking Activity for Student teachers
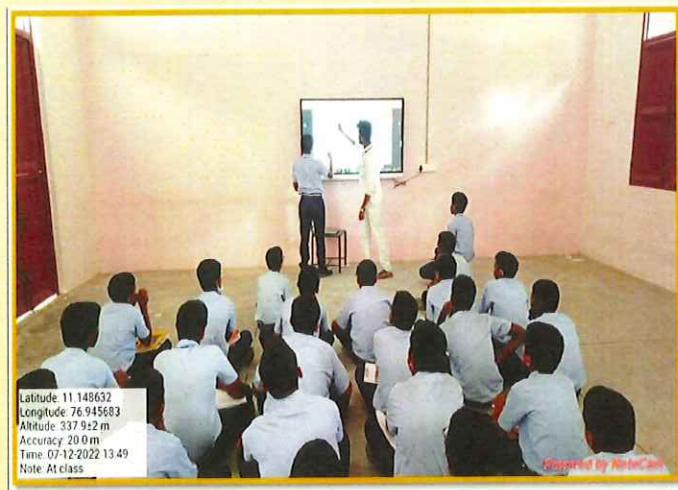
Analytical Thinking Class
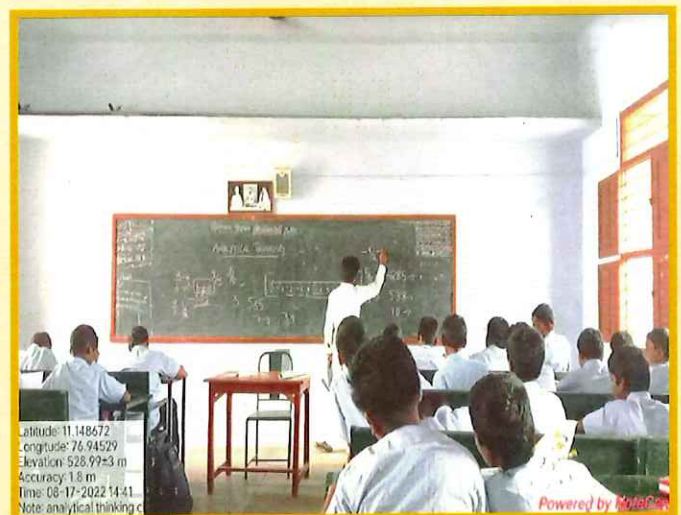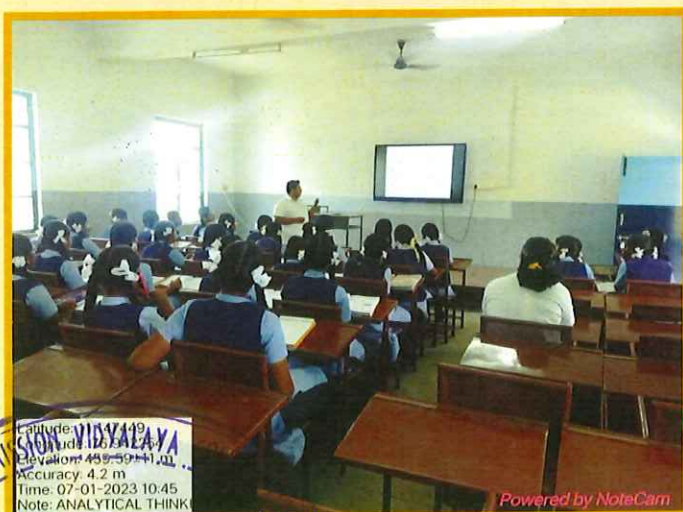
Analytical Thinking Class

Analytical Thinking Class

Analytical Thinking Class

ACTIVE LEARNING PROGRAMME

Objectives :

After completion of the classes, the students are able to:

- Demonstrate a deep understanding of fundamental scientific and mathematical concepts, applying them to real-world problems and scenarios.

- Engage in critical thinking and problem-solving, approaching challenges with analytical and logical reasoning.

- Work collaboratively, contributing to group discussions, team projects, and peer teaching with confidence and cooperation.
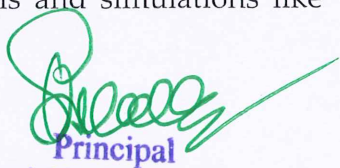
Programme Details :

Sri Ramakrishna Mission Vidyalaya College of Education has initiated **Active Learning Programme** for the students studying in Sri Ramakrishna Mission Vidyalaya Swami Shivananda Higher Secondary School (Girls Wing) on 13.07.2022. The students studying in classes 6th to 8th are engaged in Active learning classes by applying active learning strategies in the teaching learning process of Mathematics and Science subjects and extended to 9th students as well.

The students were engaged in Active learning classes once in a week for the time period of 90 minutes in each subject. So far students were engaged in 49 active learning classes in Mathematics and 48 classes in Science from the date of initiation.

Science subject is handled by Sri N. Rajesh Kumar, Assistant Professor in Biological Science and Mathematics is handling by Sri V. Eswaran, Assistant Professor in Mathematics. Faculty members use simulations, augmented reality, mixed reality problem based activities and experiential learning in teaching subject specific concepts that stimulates the interests of the students and made them active participation in the classes that enrich the higher order thinking skills and students in the Active Learning Classes. In Active Learning methodology, students learn the concepts and core of the subjects practically by doing activities with lab articles, models and simulations like PhET, GeoGebra and OLABS etc.,

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The Active Learning methodology is a modern classroom concept, which emphasis the 21st century skills among the students by adopting the following strategies, lab articles, models and ICT Tools.

The strategies used in Active Learning class,

- ❖ Peer teaching activities
- ❖ Team Teaching
- ❖ Game-based learning
- ❖ In-class demonstrations
- ❖ Jigsaw methods
- ❖ Augmented Reality (AR)

- ❖ Simulation Based Learning
- ❖ Think-Pair-Share
- ❖ One minute paper
- ❖ Group discussion
- ❖ Flipped Classroom
- ❖ Mixed Reality (MR)

Scan this QR Code for additional Active Learning Techniques
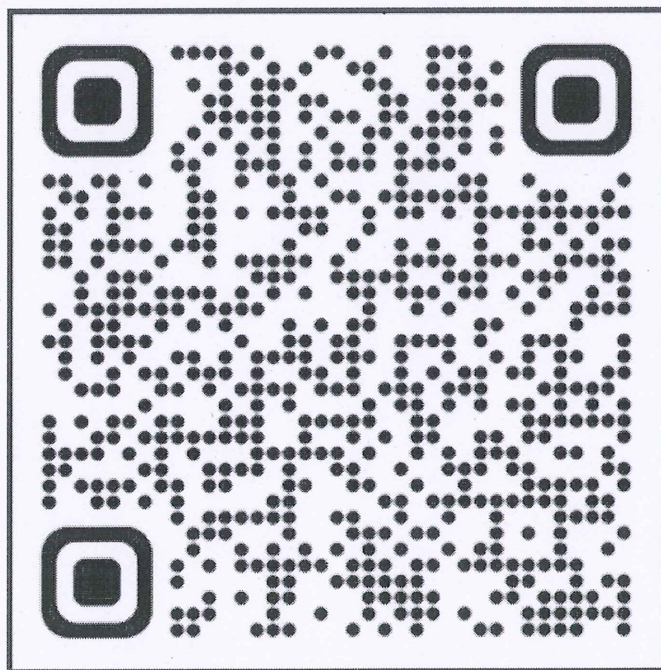
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ACTIVE LEARNING PROGRAMME

Think –Pair - Share

Simulation Based Learning

Discussion

Group Activity
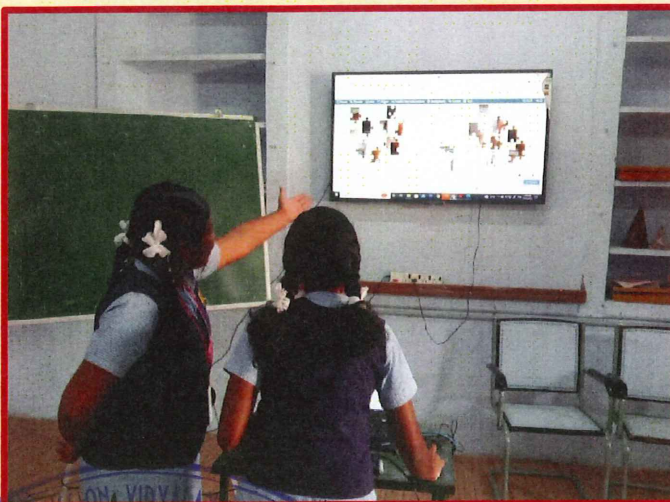
Game Based Learning

Real Time Activity

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Sri Ramakrishna Vidyalaya Post, Periyanaickenpalayam
Coimbatore - 641 020
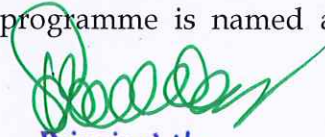
'SHODHVID'

Ramakrishna Mission Vidyalaya, Coimbatore has been rendering educational and community services to students and common public. Mahatma Gandhi, the Father of the Nation, laid down the foundation stone of Vidyalaya and Sri T.S.Avinashilingam Ayya, the Founder, nurtured the institution with his visionary and devoted service. As Swami Vivekananda propagated "Service to the society is service to God", Vidyalaya has been rendering services to the society by organising various educational programmes and welfare activities. Over the years, the Vidyalaya has grown into a comprehensive and reputed complex of educational institutions training around 7000 students, offering them facilities for education ranging from pre-school to doctoral levels. Also, the mission has been organising various welfare and extension activities namely

1. Medical Services - Medical Camps and Charitable Dispensary

2. Sarada Noon Meals Scheme

3. Sister Nivedita Anna Yojana

4. One Day Youth Convention

5. Two Day Teachers' Convention - *Non Residential and Residential*

6. Rural Development Project

7. Scholarship for College Studies

8. Tuition Centres

9. Disaster Management Services and etc.

In order to transform the various academic and extension activities, and other services being conducted by the institutions in Vidyalaya into research studies, a research committee has been formed and the research programme is named as 'SHODHVID'.

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Aim of the Programme

The core aim of the programme is to transform various academic, extension and service activities of the institutions in Vidyalaya into research studies for the upliftment of individual and common society.
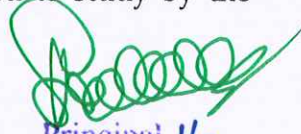
Major Areas Identified for Research

The Major area of studies identified for conducting research studies are as follows.

1. Education
2. Physical Education (Sports)
3. Medical Services
4. Humanities
5. Vocational Education

1. Education related programmes/ activities
   - Active Learning Programme
   - Analytical Thinking Programme
   - Extension activities for Children in Observation Home
2. Sports Activities
   - Fit Vidyalaya
   - Yogic Practices
3. Medical Services to the Society
4. Humanities
5. Vocational Programmes/ Activities

Under the guidance and support of Rev.Secretary Maharaj of Ramakrishna Mission Vidyalaya and SHODHVID Committee, research related to education and sports programmes are initiated. The educational programmes are being conducted by the Sri Ramakrishna Mission Vidyalaya College of Education. Sports Activities and programmes are being conducted Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education and General & Adapted Physical Education and Yoga (GAPEY). Programmes related to Humanities are being designed to study by the Department of Social Work, SRMV College of Arts and Science.

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SHODHVID Meeting on 27.08.2022
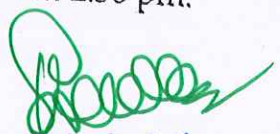
Agenda of the Meeting

1. Preliminary discussion on transforming Vidyalaya activities and services into research studies.

*****

Minutes

1. It was resolved that 5 major fields are identified namely Education, Physical Education (Sports), Medical Services, Humanities and Vocational activities out of which the activities of two major fields Education and Physical Education (Sports) are initially put into research.

   ✓ The education related research include 'Active Learning Programme', 'Analytical Thinking programme' and Programmes being conducted in Observation Home through Department of Extension Services, SRKV College of Education.

   ✓ The Physical Education related research includes 'Fit Vidyalaya Programme' and Yogic Practice being conducted in SRMV Swami Shivananda Higher Secondary school.

2. It was decided that members from different fields ought to submit an outline structure, concept note, parameters to do research scientifically in the forthcoming meeting for discussion.

3. It was decided that the plan of action may be both short term or long term research covering physiological, sociological, psychological and academic perspectives.

4. It was resolved that the next meeting will be on 03.09.2022 at 2.30 pm.

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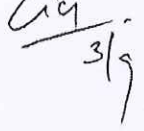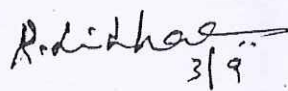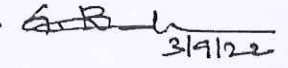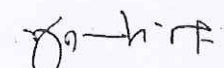
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SHODHVID

Minutes of the meeting held on 27.08.2022

The meeting held in the presence of Revered Swami Garishthananda Maharaj, Secretary, Ramakrishna Mission Vidyalaya on 27.08.2022 at Central Office.

The following members were present in the meeting.

1. Swami Garishthananda Maharaj   - Chairman
    Secretary
    Ramakrishna Mission Vidyalaya

2. Swami Dhinathananda Maharaj   - Member
    Secretary
    SRMV Swami Shivananda Higher Secondary School

3. Sri. G. Murali   - Member
    Principal, SRMV Industrial Training Institute

4. Dr. R. Sridhar   - Member
    Director, SRMV CAS (SF Wing)

5. Dr. R. Giridharan   - Member
    Associate Professor and Head, GAPEY

6. Dr. M. Srinivasan   - Member
    Assistant Professor
    SRMV Maruthi College of Physical Education

7. Dr. G. Raja   - Member
    Assistant Professor of Chemistry, SRMV CAS

8. Dr. R. Suresh   - Member
    Assistant Professor of Physics, , SRMV CAS

9. Dr. J. B. Chandra Sekar   - Member
    Assistant Professor of Social Work , SRMV CAS

10. Dr. M. Jagadesh   - Member
    Assistant Professor, SRKV COE

11. Sri. V. Eswaran   - Member
    Assistant Professor, SRKV COE

12. Dr. P. Vel Murugan   - Member
    Assistant Professor, SRKV COE

13. Dr. K. Karthigeyan   - Member
    Assistant Professor, SRKV COE

14. Sri. N. Rajesh Kumar   - Member
    Assistant Professor, SRKV COE

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SHODHVID Meeting on 03.09.2022

Agenda of the Meeting

1. Confirmation of the minutes of the previous meeting.

2. Presentation of proposed research design of members from different fields.

3. Any other matter.

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Minutes of the Meeting

Agenda – 1

Confirmation of the minutes of the previous meeting.

The minutes of the previous meeting of SHODHVID held on 27.08.2022 were read and approved.

Agenda – 2

Presentation of proposed research design of members from different fields.

Dr.M.Jagadesh, Assistant Professor in Education, SRKV College of Education has presented the design of "Active Learning Programme" being conducted by College of Education.

Dr. M. Srinivasan, Assistant Professor, SRMV Maruthi College of Physical Education has presented the proposed research design of "Fit Vidyalaya' programme.

Dr. J. B. Chandra Sekar, Assistant Professor of Social Work, SRMV College of Arts and Science has presented the proposed research design entitled "Influence of Spirituality on Attitude, Behaviour, and Social Responsibility".

Deliberations were made on the proposed research of the above mentioned programmes and suggestions were provided by the members to strengthen the research.

It was resolved that the preparatory works including literature collection, tool construction and standardisation are to be carried out by respective members from different fields on the concerned research area.

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Agenda -3

Any other matter.

Discussions were made on conducting research on Medical Services of Vidyalaya in par with Medical Camps being conducted in various villages.

Based on the discussion it was decided to identify particular village/ area where the medical camps are being conducted and to study the medical issues identified (Diabetics, Ortho and others issues) among the people in the particular place by the members from SRMV College of Arts and Science.

It was decided to conduct a research on Fraternity Group, i.e, students who used to go for night walking in the Vidyalaya Campus by the members from Humanities, SRMV College of Arts and Science.

It was decided that the next meeting is scheduled on 17.09.2022 at 4.30 pm.

Chairman

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RAMAKRISHNA MISSION VIDYALAYA
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SHODHVID Meeting on 17.09.2022

Members Present

No.	Name	Role	Signature
1.	Swami Garishthananda Maharaj Secretary Ramakrishna Mission Vidyalaya	Chairman	*swami Garishananl.*
2.	Swami Dhinathananda Maharaj Secretary SRMV Swami Shivananda Hr. Sec. School	Member	
3.	Sri. G. Murali Principal SRMV Industrial Training Institute	Member	*signature*
4.	Dr. R. Sridhar Director SRMV College of Arts and Science (SF Wing)	Member	*R. Sridhar*
5.	Dr. R. Giridharan Associate Professor and Head, GAPEY	Member	
6.	Dr. M. Srinivasan Assistant Professor, SRMV Maruthi College of Physical Education	Member	*signature 17/9/22*
7.	Dr. G. Raja Assistant Professor of Chemistry, SRMV College of Arts and Science	Member	*signature 17/9/22*
8.	Dr. R. Suresh Assistant Professor of Physics SRMV College of Arts and Science	Member	*signature 17/9/22*
9.	Dr. J. B. Chandra Sekar Assistant Professor of Social Work SRMV College of Arts and Science	Member	*signature 17/09/2022*
10.	Dr. M. Jagadesh Assistant Professor SRMV College of Education	Member	*signature 17/05/22*
11.	Sri. V. Eswaran Assistant Professor in Mathematics SRMV College of Education	Member	*signature*
12.	Dr. P. Vel Murugan Assistant Professor in History SRMV College of Education	Member	*signature*
13.	Dr. K. Karthigeyan Assistant Professor in Education SRMV College of Education	Member	
14.	Sri. N. Rajesh Kumar Assistant Professor Biological Science SRMV College of Education	Member	*signature*
15.	Sri. C. Arul Actovin Assistant Professor in Social Work SRMV College of Arts and Science	Member	*signature*

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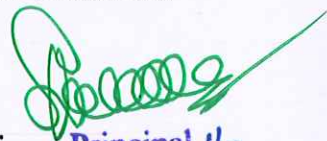College of Education (Autonomous)
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SHODHVID Meeting on 17.09.2022

Minutes of the Meeting

- The minutes of the previous meeting of SHODHVID held on 03.09.2022 were read and approved.

- It was resolved to conduct Faculty Development Programme on "Analytical, Critical, Lateral and Design Thinking" by Internal Quality Assurance Cell (IQAC), Sri Ramakrishna Mission Vidyalaya College of Education.

- It was proposed to conduct Faculty Development Programme on "Value Added, Add On Courses, Inter Disciplinary, Multi-Disciplinary and Trans Disciplinary Courses" by Sri Ramakrishna Mission Vidyalaya College of Arts and Science.

- It was decided to conduct medical camp in three reserved villages namely Pillur, Kallar and Mannar once in a month with a consultation of Dr.Krishnamurthi and medical card is to be used for getting the details of patients, their medical issues and recommended prescription of the doctors.

- It was resolved to modify the title of the programme "Stimulation of Analytical Thinking" into "Stimulation of Lateral Thinking".

- Discussion were made on the progress of 'Active Learning Programme' of College of Education and 'Fit Vidyalaya Programme' of Maruthi College of Physical Education.

- Dr. J. B. Chandra Sekar, Assistant Professor of Social Work, SRMV College of Arts and Science has presented the research design entitled "Influence of Spirituality on Attitude, Behaviour, and Social Responsibility".

Healthy discussions were made on the programmes and all the members were actively engaged in the deliberations.

The next SHODVID meeting is scheduled on 08.10.2022 at 4.30 pm.

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Outcomes

      Faculty empowerment was the prime agenda of the session. Faculty members had a deeper understanding of the points discussed in the session and will be implementing the core elements in their respective institutions.

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3.1.4 Institution has created an eco-system for innovation and other initiatives for creation and transfer of knowledge that include….

III	Official Approval and Support for Innovative Try-Outs
a)	Active Learning Scale-up Programme

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COLLEGE OF EDUCATION
Coimbatore, Tamil Nadu, India

&

EK KADAM AUR FOUNDATION
A non-profit charitable organization registered in the US and India

ACTIVE LEARNING SCALE-UP PROGRAMME

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, Coimbatore - 641 020.

Ph: 8012533915   E-mail: srkvcoen@yahoo.co.in   Website : www.srkvcoe.org

Report on

ACTIVE LEARNING SCALE-UP PROGRAMME

Sri Ramakrishna Mission Vidyalaya College of Education (Autonomous), Coimbatore has initiated "Active Learning Scale-up Programme" from January 2022 in Collaboration with Ek Kadam Aur Foundation, a non-profit charitable organization registered in the US since 2015 and India since 2017.

Objectives of the Programme

- To prepare student centered Active Learning Lesson Plans for high school level.
- To train teachers and students understand and implement the Active Learning methods and strategies in curriculum transaction.
- To create a robust and comprehensive Active Learning model for high schools supported by good quality videos of Active Learning in practice.
- Reinspire students to appreciate learning, and develop true passion for education within themselves.

Meetings Held for Discussion

A preparatory meeting was held on January 26, 2022 for exchange of ideas and conceptual understanding of Active Learning and similar practices already implemented at the college. A recurring meeting on the first Saturday of each month was initiated on March 5, 2022. Each monthly meeting is preceded by a prior meeting wherein the members set agenda for the upcoming meeting. Regular virtual meetings are held to ensure sustained progress of the program.

To launch the Collaboration between Ek Kadam Aur Foundation (EKAF) and the Sri Ramakrishna Mission Vidyalaya College of Education, an in-person meeting was held on July 4, 2022, in the Central office of Ramakrishna Mission Vidyalaya in the presence of Swami Garishthananda Maharaj, the Secretary, Ramakrishna Mission Vidyalaya, Coimbatore, in which Dr. Satish Tripathi, Founder-President, EKAF and

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Mr. Mohan Rao, Programme Coordinator participated from EKAF, and Principal and Faculty members have participated from College of Education. Dr. Satish Tripathi, and Mr. Mohan Rao reiterated the importance of ALSP and discussed its core features and details of outcome from the Foundation's experience in Sitanagaram, Andhra Pradesh. The members from College of Education also explored the need for technological interventions and subject-specific laboratories for Mathematics, Sciences, Social Science and English respectively. Discussion were made on establishing Education Studio and upgradation subject specific laboratories for robust implementation of Active learning Programme at College of Education with the financial support of EKAF. It was decided that 10 schools would participate in the pilot for ALSP including 4 schools in Ramakrishna Mission Vidyalaya campus. On July 5, 2022, Mr. Mohan Rao visited the College and discussion were made on the programme with faculty members from College of Education.

The faculty members from College of Education actively engaged in regular recurring meetings and scale-up meetings with members of EKAF and Teachers in the Avenues World School, Sao Paulo, Brazil. The teachers from the Avenues world school namely Ms. Allison Uros and Ms. Clara Prado have engaged in the monthly recurring meetings and shared their experiences on various active learning strategies and methodologies followed in Avenues Schools. Based on the discussions made in the meetings, the Active Learning practices have been adopted in Mathematics and Science subjects in which high school students in Vidyalaya engaged in active learning classes handled by Faculty members of College of Education.

Signing of Memorandum of Understanding (MoU)

The Memorandum of Understanding (MoU) between Sri Ramakrishna Mission Vidyalaya College of Education and Ek Kadam Aur Foundation (EKAF) on the project "Active Learning Scale-up Programme" was signed on 17th March 2023 through online Zoom Meeting. Swami Garishthananda Maharaj, Secretary, Ramakrishna Mission Vidyalaya, Coimbatore, Dr. Satish Tripathi, Founder-President, EKAF, Dr.G.Subramonian, Principal, Sri Ramakrishna Mission Vidyalaya College of Education and Ms. Saumya Tripathi, Associate Director of EKAF were signed in the MoU.

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CONSOLIDATED LIST OF MEETINGS AND TRAINING HELD

S.No	Date	Nature	Time
1	26.01.2022	Introductory Meeting	09.30 am - 10.45 am
2	14.02.2022	Scale Up Meeting	02.00 pm - 03.45 pm
3	05.03.2022	Monthly Recurring Meeting	07.30 pm - 08.30 pm
4	31.03.2022	Scale Up Meeting	11.00 am - 11.40 am
5	02.04.2022	Monthly Recurring Meeting	07.30 pm - 09.00 pm
6	11.04.202	Scale Up Meeting	11.00 am - 12.30 am
7	07.05.2022	Monthly Recurring Meeting	07.30 pm - 09.00 pm
8	26.05.2022	Scale Up Meeting	12.00 pm - 01.15 pm
9	04.06.2022	Monthly Recurring Meeting	07.30 pm - 09.00 pm
	30.06.2022	Scale Up Meeting	02.30 pm - 03.30 pm
10	**04.07.2022**	**Live Meeting**	**09.30 am – 12.30 pm**
11	**05.07.2022**	**Live Meeting**	**11.00 am – 12.30 pm**
12	06.08.2022	Monthly Recurring Meeting	07.30 pm - 08.30 pm
13	26.08.2022	Scale Up Meeting	02.30 pm - 03.30 pm
14	03.09.2022	Monthly Recurring Meeting	07.30 pm - 09.00 pm
15	26.09.2022	Scale Up Meeting	07.30 pm - 08.30 pm
16	08.10.2022	Monthly Recurring Meeting	07.30 pm - 09.00 pm
17	07.01.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
18	04.02.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
19	07.01.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
20	04.03.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
21	08.04.2023	Monthly Recurring Meeting	07.30 pm - 09.00 pm
22	20.05.2023	Scale Up Meeting	07.30 pm - 08.15 pm
23	17.06.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
24	28.07.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
25	25.08.2023	Monthly Recurring Meeting	07.30 pm - 08.30 pm
26	28.08.2023 to 14.10.2023	**Active Learning Training by Avenues World School , Brazil**	Five Hours per Week

In the Avenues Active Learning Training, all the Faculty Members, subject specific School Teachers from SRMV Swami Shivanada Higher Secondary School and Student Teachers of College of Education were actively participated and completed various tasks. The faculty members have trained the teachers and student teachers in preparation of subject specific active learning lesson plans, modules, teaching materials and evaluation strategies, etc. Also subject specific faculty members and teachers have taken model classes to the students in Avenues World School and received optimistic feedbacks/ comments from the students and teachers of Avenues World School.

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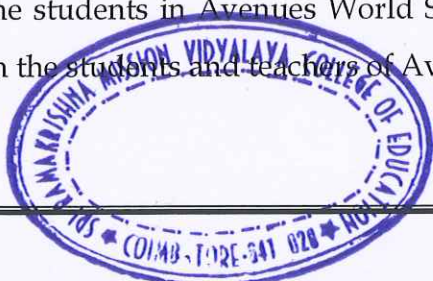
MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is made and entered into on this 17th Day of March 2023 ("Effective Date") by and between:

Ek Kadam Aur Foundation (EKAF), a non-profit organization, having its office at FLAT 17C, Tower D, Viceroy Park, Thakur Village, Kandivali (East), Mumbai, Maharashtra 400 101, the "First Party" herein.

AND

The Chairman of Sri Ramakrishna Mission Vidyalaya College of Education, Periyanaickenpalayam, Coimbatore, Tamil Nadu 641 020 [a unit of Ramakrishna Mission Vidyalaya, Coimbatore (a branch centre of the Ramakrishna Mission [a Society, registered under the Societies Registration Act, 1860, presently governed by the West Bengal Societies Registration Act, 1961(Act XXVI of 1961), bearing Registration Number 1917/3 of 1909-10, (New Digitized e-Registration No. SO916370), having its registered office and Headquarters at P.O Belur Math, P. S. Bally, District Howrah, West Bengal 711 202)], the "Second Party" herein.

The First Party and the Second Party are hereafter collectively referred to as the "Parties" and severally as the "Party".

WHEREAS the First Party and the Second Party desire to enter into an agreement in which they shall work together to undertake and implement Active Learning Scale-up Program (the "Project") that would yield a robust Active Learning Pedagogy package for introduction of Active Learning in 6th to 8th standards of school education.

Capabilities:

WHEREAS the First Party had conducted few pilot studies in Active Learning and an Active Learning Teachers' Training Program in a secondary school and the Second Party is regularly producing B.Ed. graduates to take teaching positions at different secondary schools.
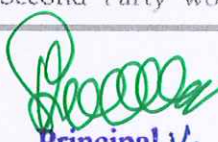
Responsibilities:

WHEREAS the First Party wants to promote Active Learning Pedagogy in different schools and the Second Party is ready to take up the responsibility of developing robust Active Learning Package and introduce the same in 10 different schools as Active Learning Scale-up Program.

Resources:

WHEREAS the First Party is ready to organize Active Learning Training and Orientation Program to the designated faculty of the Second Party. The First Party shall also provide necessary equipment support to the Second Party for producing good Quality videos covering various aspects of Active Learning Practices. The Second Party would be

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utilizing four schools in its campus for field testing its Active Learning Pedagogy elements from time to time and to produce high quality videos of Active Learning practices. It is expected that this capacity enhancement of the Second Party would enable it to undertake the Project.

Time Duration:

The project duration is of two years from the effective date. During the project duration, the first year is meant for producing the robust Active Learning Pedagogy Package, and the second year for undertaking the Scale-up study at 10 different schools including four school units of the Ramakrishna Mission Vidyalaya, Coimbatore. .

Mode of Communications:

The Parties shall nominate contact persons for communications and for information sharing with respective team members.

Monitoring:

The senior personnel of the Parties shall participate in recurring monthly online meetings to monitor and review the progress of the project.

Disputes:

Any disputes that shall arise during the Project duration shall be amicably solved/settled by the Parties mutually.

Termination and Notices:

If either Party is not satisfied with the progress of the Project due to non-cooperation from other side, the Party can pull out of the Project by giving advance written notice of one month without assigning any reason and without harming the interest of the students and the Parties.

Satish Tripathi

Dr. Satish Tripathi
Founder- President
Ek Kadam Aur Foundation

Swami Garishthananda
Chairman
Sri Ramakrishna Mission Vidyalaya
College of Education

Witness
Signature:
Saumya Tripathi
Associate Director
EK Kadam Aur Foundation
50 Garaiya Muhal Auraiya
Uttar Pradesh . 206122

Witness
Signature: CDr. G. SUBRAMONIAD
Principal
Sri Ramakrishna Mission Vidyalaya
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Coimbatore-641 020.

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Sri Ramakrishna Mission Vidyalaya
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5

ACTIVE LEARNING SCALE-UP PROGRAMME

Sri Ramakrishna Mission Vidyalaya College of Education (SRMVCOE)

&

Ek Kadam Aur Foundation (EKAF)

Online Meeting with
Ek Kadam Aur Foundation (EKAF)

Dr. Satish Tripathi,
Founder & President, EKAF

Live Meeting on ALSP Initiation between
Members of EKAF and SRMVCOE

Signing MoU by the Secretary,
Ramakrishna Mission Vidyalaya, Coimbatore

Signing MoU - Online

Principal i/c
Sri Ramakrishna Mission Vidyalaya
College of Education (Autonomous)
Coimbatore-641 020.

Interaction with Ms. Alison Uros, Teacher,
Avenues World School, Brazil

3.1.4 Institution has created an eco-system for innovation and other initiatives for creation and transfer of knowledge that include….

IV	Material and Procedural Supports
a)	Library Learning Resource Centre
b)	Publication of Quarterly Journal "Journal of Educational Research and Extension"
c)	Laboratory Facilities – STEM Lab, Computer Lab, Language Lab and other Subject Specific Laboratories

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, Coimbatore - 641 020.

Ph: 8012533915 │ E-mail: srkvcoen@yahoo.co.in │ Website : www.srkvcoe.org

Library Learning Resource Centre - An Eco System for Transfer of Knowledge

Sri Ramakrishna Mission Vidyalaya College of Education is the first Autonomous College of Education in India. Hence, the institute always focuses quality education for which the role of library and its services are paramount to its faculty, research scholars and students. As a result, the library has been automated by implementing RFID Technology. Very few college libraries in India have been automated by implementing State of the Art of RFID Technology. Our College Library, the first one in India at the college level is being automated by implementing RFID Technology. The library has very strong collection in the field of teacher education. Hence it is one of the leading libraries, its meets out the versatile needs of Teachers, Researchers, P.G and U.G students in the field of Teacher Education. It has regular visitors of research scholars across the country. The library provides services to disabled students also. The library has also special collection for competitive examinations. The library is proactive in providing library services to cater for versatile needs of its users. The ultimate aim of the library is to make it as User Centered. It is an eco-system of the college that paved the way for Creation and Transfer of Knowledge.

<div align="center">**Library Services**</div>

Research Library Services

The Library's Research reference library is located in the first floor of the library. It consists of Back volume of Journals, Theses, Research survey and Reports, Encyclopaedia and other reference books in the domain of teacher education. Faculty members, Research Scholars and M.Ed students can avail research library services. Research Library services can also have extended to research scholars and faculty members from other universities/institutes for reference purpose only. Outside Research scholars and faculty members who wish to avail reference services will produce appropriate id card and permission letter from heads of the institution. The research library services include assisting researchers for review of literature, bibliographic style etc. The research library service has made through print and digital resources like Inflibnet's   N- list , DOAJ and other open access resources.

Reading Services

The College library has a well-equipped reading room with seating capacity of 50 users. Users can access Web-based OPAC (Online Public Access Catalogue) anywhere in the campus through Intranet. The reference, periodical and current awareness sections also function from reading room for reader's convenience. Some rare collections of the college are displayed in the reading room.

Lending Services
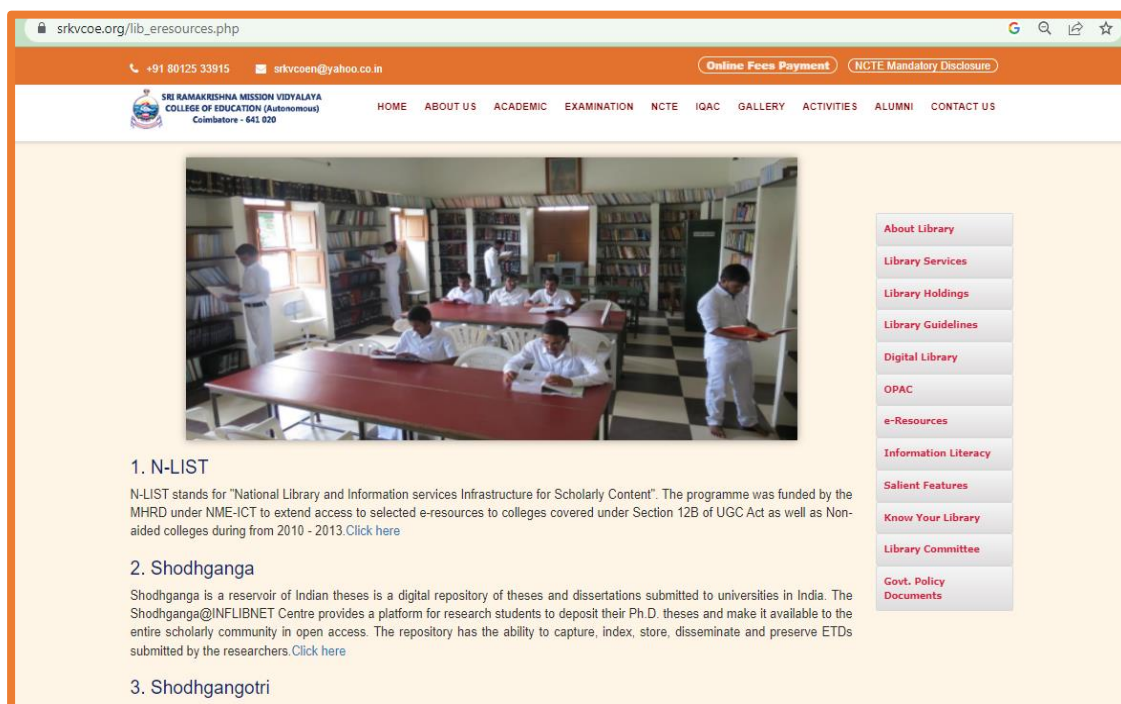
The book borrowing facility is available for the faculty members, current students and staff members of the college. Student can borrow at most three books and faculty members can borrow at most eight books depending on the availability of the same in the library, at a time 30 days for student and thirty days for Faculty members, which are further renewable at most once in 30 days slot for students and for faculty members if there is no reservation for that book.

Book Bank Services

The book bank facility is available for the students belonging to non-creamy layer of the society. Besides regular library facilities, they can issue at most three books from book-bank at most for a full semester.

Digital Library/Institutional Repository

Institutional Repository is developed by using D-space open source software. It contains intellectual properties of our faculty members such as Ph.D., M.Phil., and M.Ed. theses, teaching aids and Research Publications. It has versatile teaching & learning resources such as videos lessons, ppts, lecture outlines, question banks, competitive examination materials, etc., for the benefits of students.

It provides links to thousands of e-journals, e-books, e-theses, e-learning materials, and e-contents for subjects, etc., It has a collection of Important news clippings about the institution, college magazines etc.

1. N-LIST

N-LIST stands for "National Library and Information Services Infrastructure for Scholarly Content". The programme was funded by the MHRD under NME-ICT to extend access to selected e-resources to colleges covered under Section 12B of UGC Act as well as Non-aided colleges during from 2010 - 2013.

N-LIST
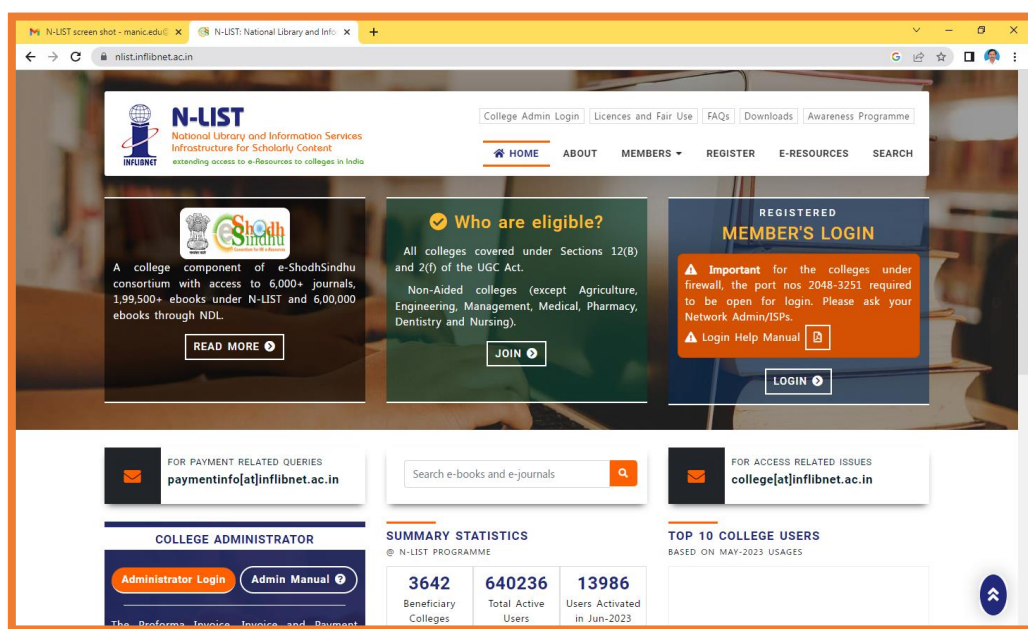
2. Shodhganga

Shodhganga is a reservoir of Indian theses is a digital repository of theses and dissertations submitted to universities in India. The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture,index,store, disseminate and preserve ETDs submitted by researchers.

3. Shodhgangotri

Shodhgangotri is a new initiative that compliments "ShodhGanga". Shodhgangotri hosts synopsis of research topic submitted to the universities in India by research scholars for registering themselves for the Ph. D programme.

4. e-PGPathshala

e-PG Pathshala is an initiative of the MHRD under its National Mission on Education through ICT (NME-ICT) being executed by the UGC. The content and its quality being the key component of education.

5. NDL (National Digital Library)

The National Digital library of India is a project under Ministry of Education, Government of India. The objective is to collect and collate metadata and provide full text index from several national and international digital libraries, as well as other relevant sources. It provides educational materials in various languages, in all disciplines, in different forms of access devices and plans to cater to differently-abled learners too, in the near future.
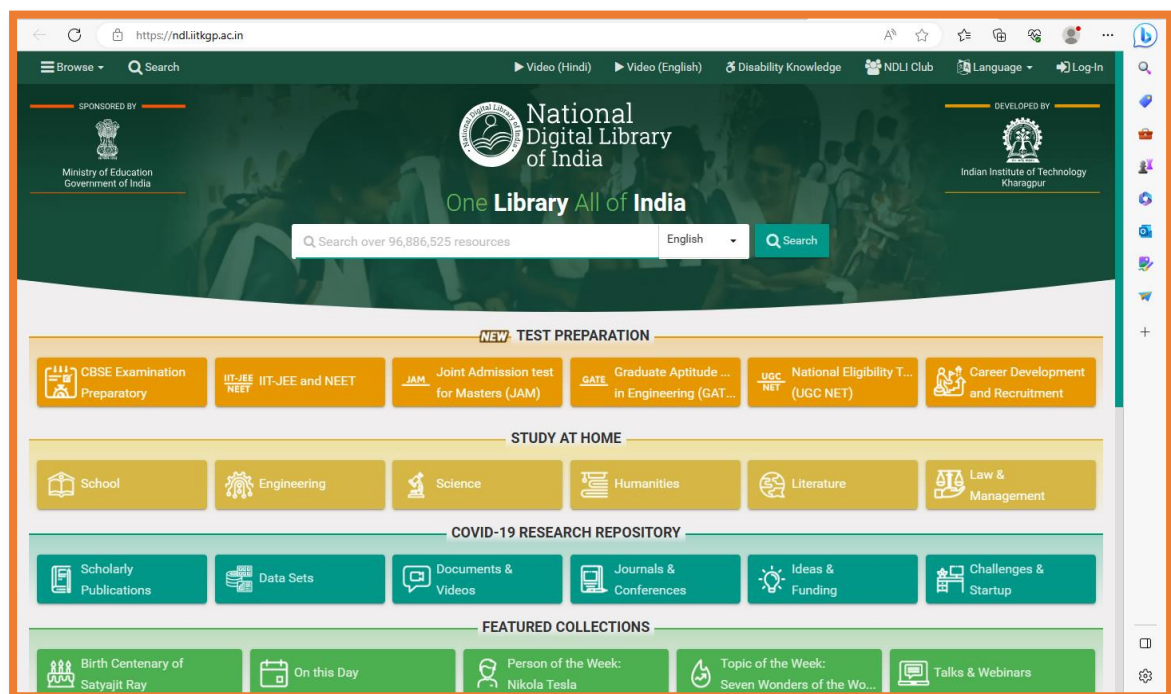
6. DOAJ (Directory of Open Access Journals)

DOAJ (Directory of Open Access Journals) was launched in 2003 with 300 open access journals. Today, this independent index contains almost 17500 peer-reviewed, open access journals covering all areas of science, technology, medicine, social sciences, arts and humanities.

7. DOAB (Directory of Open Access Books)

DOAB is a discovery service for peer reviewed open access books and book publishers that indexes and provides access to high quality, open access, peer-reviewed books. The directory is open to all publishers who publish academic, peer reviewed books in open access and should contain as many books as possible, provided that these publications are in open access and meet academic standards.

8. NPTEL (National Programme on Technology Enhanced Learning)

NPTEL is a project of MHRD initiated by 7 IITs along with the IISc, Bangalore in 2003, to provide quality education to anyone interested in learning from the IITs.

9. SWAYAM

SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) MOOC Platform was developed indigenously by AICTE in 2016 to facilitate hosting of online courses which could be accessed by anyone, anywhere at any time free of cost to achieve three cardinal principles of Education Policy viz. access, equity and quality.

Salient Features of the Library

- The library has rare collection of books in the field of teacher education
- The library has a collection of National and International reports and surveys in the domain of education
- The library has an oldest and latest text book collection of NCERT and Tamil Nadu Text Book Society
- The library has more than 40 titles of encyclopedias in the field of education and holds first published Tamil Encyclopedia
- The library has a strong collection of question banks in the field of education.
- The library offers Special Library Service for the disabled students like Braille Book Collections, and Talking Books, etc.
- Regular orientation programmes are being organized for students and Research scholars.
- The Library has a strong "Library Readers' Circle", which organizes various programmes like book reviews, quizzes, etc., to cultivate the reading habits among the users.
- Display of most frequently used books and untouched books are practiced for optimum utilization by users.
- The Library regularly Receives Reader's feedback on books and periodicals.
- Organizing Library Week Celebration and World Book Day every year as a part of library activities.

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Journal of Educational Research and Extension - An Eco - System for Transfer of Knowledge

The Publication Division of the Sri Ramakrishna Mission Vidyalaya College of Education publishes a leading quarterly journal **"Journal of Educational Research and Extension (JERE)"** since 1964. This is a notified journal by the Directorate of Collegiate Education and the Director of Public Libraries. The journal is subscribed by more than 500 Individuals/ Institutions across India and abroad. The Journal is published quarterly in January, April, July and October. It contains research findings, results and educational experiments, highlights of extension work, review of books and articles of practical interest to teachers.

Research Scholars and Faculty members are provided an opportunity to publish their research articles in the journal to share their research knowledge. This facilitate them to disseminate their innovative ideas and research findings to the research aspirants.

"Journal of Educational Research and Extension (JERE)
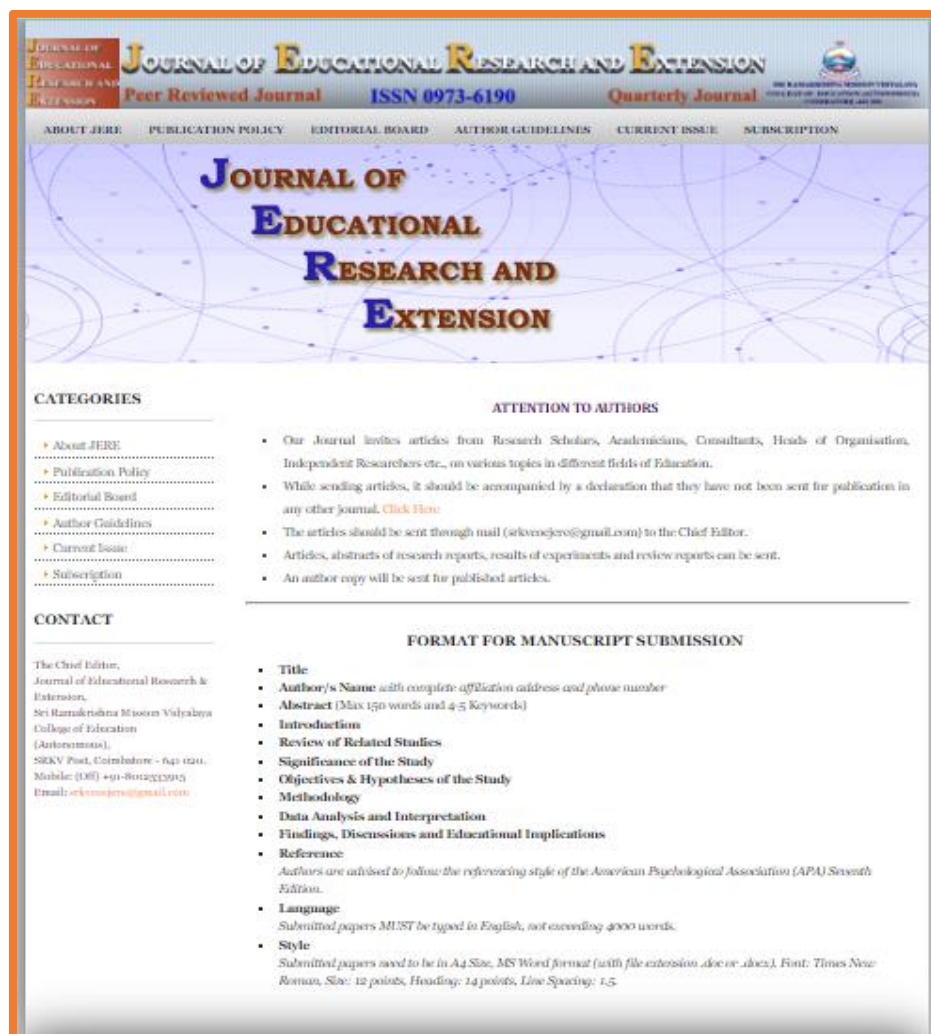
Publication of Articles by the Faculty Members in
Journal of Educational Research and Extension

S.NO	Name of the Faculty Member	Title of paper	Year of Publication
1	Dr. V. Srinivasan	Surfacing threats in e-waste management in India and signposts in curbing the menace	2022
2	Dr. K. Karthigeyan	A cross sectional study on environmental conservation awareness among B.Ed student teachers	2022
3	Dr.M.Jagadesh	Critical thinking disposition and skill as factors of academic performance among higher secondary school students	2021
4	Dr. R.Ayyappan	Perception about medical lab techniques and achievement in zoology among higher secondary students	2021
5	Dr.P.Vel Murugan	Attitude of secondary teacher education students towards internal assessment	2022
6	Dr.K.Karthigeyan	Exploring the relationship between learning styles and academic performance among English as a Second Language (ESL) learners	2021
7	Dr. R.Ayyappan	Conflict resolution and mental health of secondary teacher trainees	2020
8	Dr.M.Jagadesh	Parental beliefs and screen time of young children	2020
9	Dr.M.Jagadesh	Beyond abilities: A dispositional theory of thinking	2019
10	Dr.S.Sivasankar	Effect of traditional training with and without ladder training on balance ability of high school kho-kho players.	2019

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Laboratories and Learning Resource Centers

Sri Ramakrishna Mission Vidyalaya College of Education has the following laboratories that facilitate students and faculty members to learn and share their knowledge and create novelties.

- Educational Psychology Laboratory

- STEM Laboratory

- Language Laboratory

- Computer Laboratory

- Educational Technology Laboratory

- Biological Science Laboratory

- Physical Science Laboratory

- Mathematics Laboratory

- History Learning Resource Center

- Commerce Learning Resource Center

Educational Psychology Laboratory

The college has a well-equipped psychology laboratory, which provides practical training to the student teachers and also gives guidance and counselling to children and parents in need. The laboratory has more than 250 tests to assess intelligence, aptitude, creativity and many other personality traits of individuals besides audio and videocassettes on personality development.
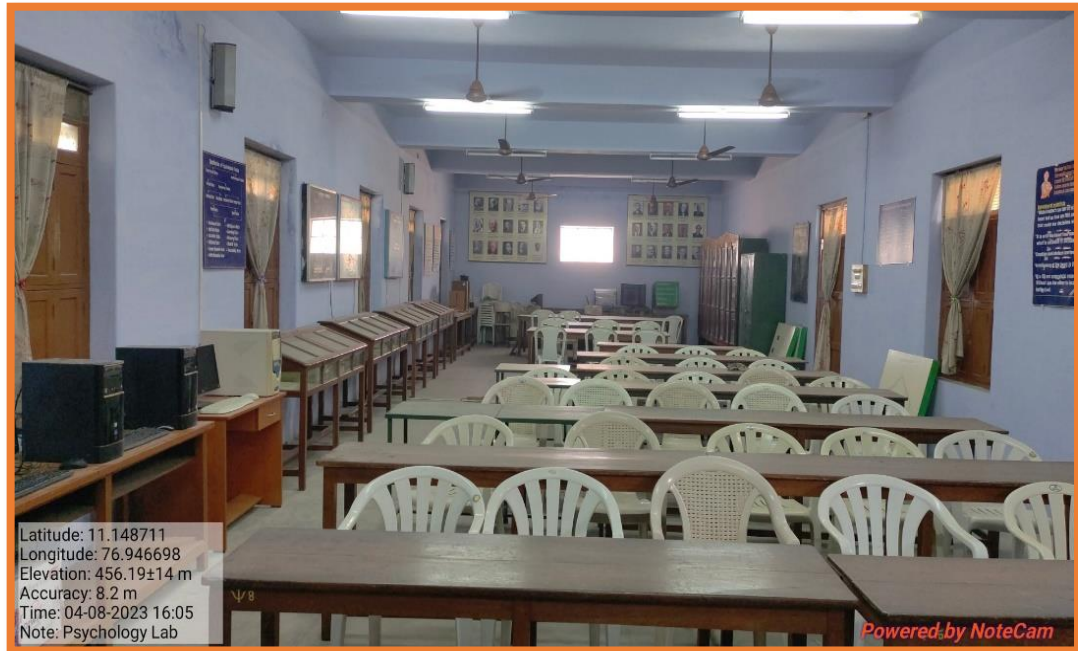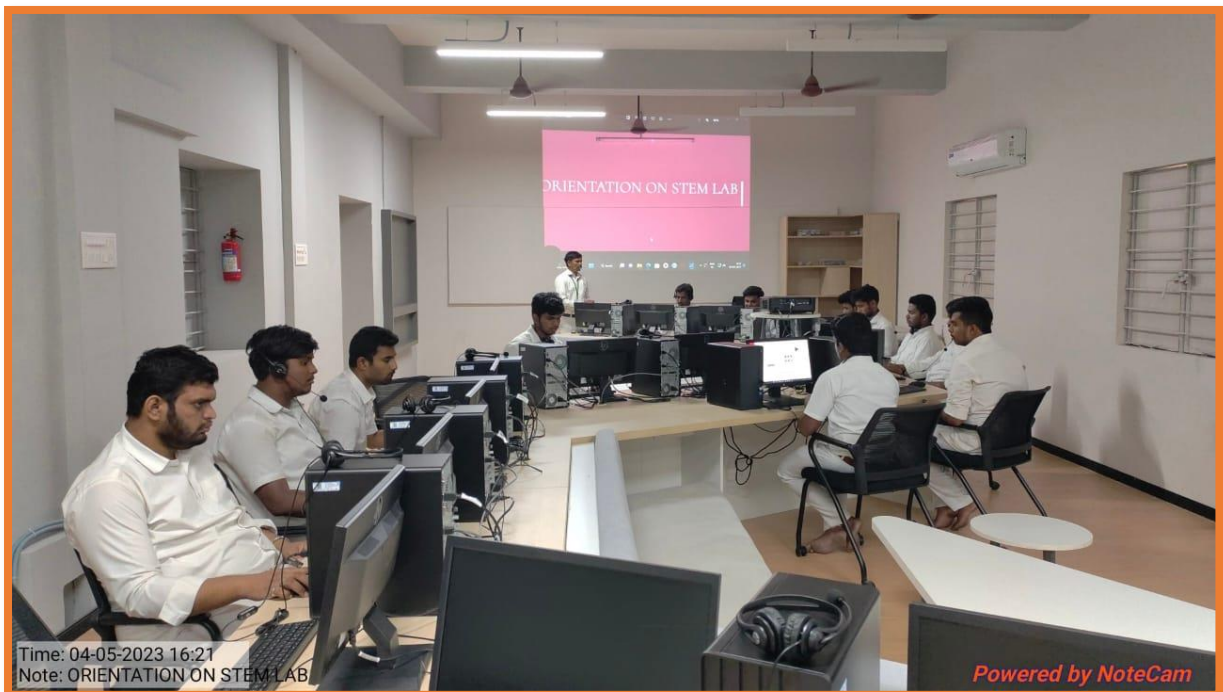
Educational Psychology Laboratory

STEM Laboratory

"A STEM lab is a learning environment where students, irrespective of grade, can come together and actively participate in hands-on or practical STEM learning." STEM stands for Science, Technology, Engineering and Mathematics. STEM education is focused on developing students' skills and connecting these subject areas, preparing them for future careers and the real world. It encourages active learning and problem solving. In these STEM laboratories, students can develop their science, engineering and mathematics skills by using technology to create, collaborate and complete projects. It creates an atmosphere of learning by doing. The basic idea behind setting up this lab is to provide students with the necessary tools to implement hands-on project-based learning of key STEM concepts. STEM Lab is a project based hands-on learning solution which enables students to apply their knowledge to use.

STEM Laboratory

Latitude: 11.148554
Longitude: 76.946743
Elevation: 439.62±11 m
Accuracy: 80.5 m
Time: 05-04-2023 16:46
Note: Orientation on stem lab
Powered by NoteCam

Time: 04-05-2023 16:21
Note: ORIENTATION ON STEM LAB
Powered by NoteCam

Language Laboratory

The language laboratory of the college has a good collection of language development materials and tests. A spoken English course is also offered to the students through this laboratory. It has electronic materials for listening and speaking and provides language development training through multimedia.

Language Laboratory

Computer Laboratory

The college has a separate computer laboratory with appropriate hardware and software to provide training to the students as well as in-service education to teachers and administrators.
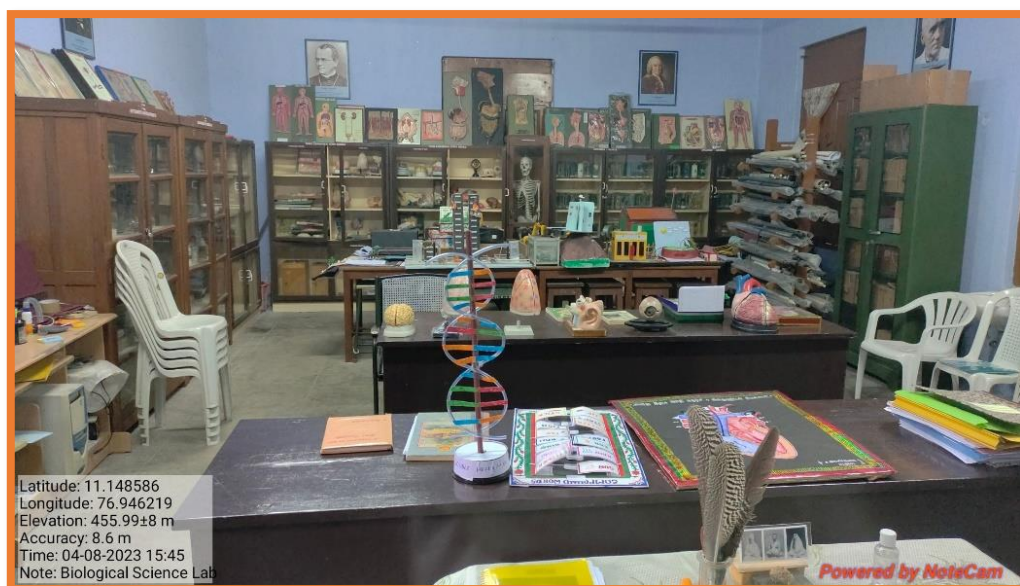
Educational Technology Laboratory

The educational technology laboratory of the college has a good collection of educational video films and provides training to students in using multimedia facilities. It has a mini-studio with an editing unit for producing educational programs. It is also open to the schools in the Vidyalaya and in the neighbourhood for demonstration purposes.

Biological Science Laboratory

The laboratory has all equipment's and materials for teaching Botany and Zoology up to class XII. It also provides practical experience to students and staff of nearby schools. The department prepares indigenous teaching kits to be used by the trainees and staff of nearby schools.

Latitude: 11.148586
Longitude: 76.946219
Elevation: 455.99±8 m
Accuracy: 8.6 m
Time: 04-08-2023 15:45
Note: Biological Science Lab

Powered by NoteCam

Biological Science Laboratory

Physical Science Laboratory

The laboratory has all equipment's and materials for teaching Physics and Chemistry up to class XII. It also provides practical experience to students and staff of nearby schools. The department prepares and distributes low-cost science kits to schools.

**Physical Science Laboratory**

Mathematics Laboratory

The Laboratory has indigenous kit to teach all mathematical concepts to students of primary to higher secondary levels. It also has number of video lessons on various topics on mathematics and Mathematical puzzles.
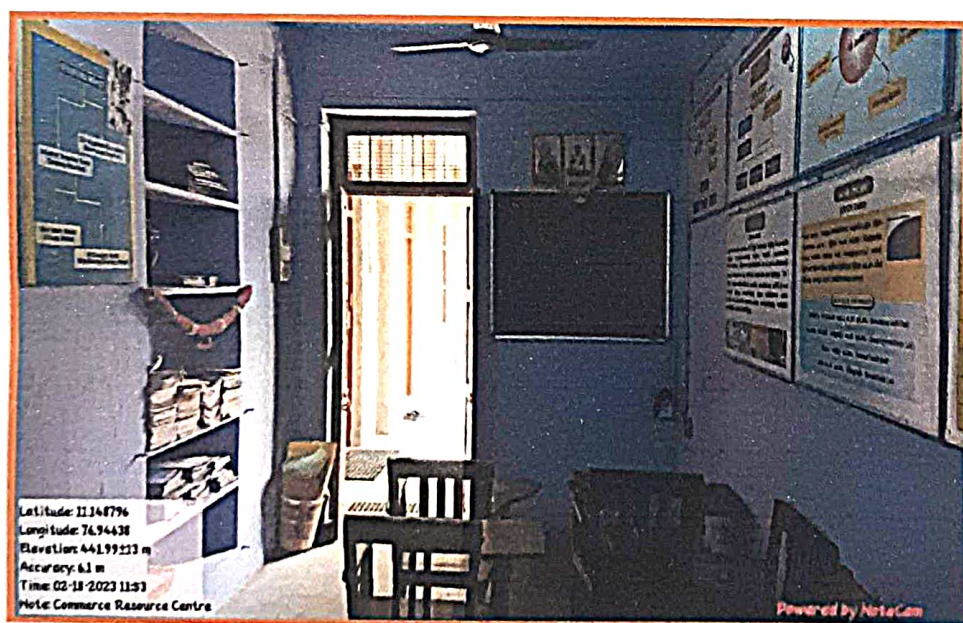

Mathematics Laboratory

History Learning Resource Center

All kinds of maps to teach History and Geography pictures of historical places and information on national leaders are available in the Resource Center . It has various models.
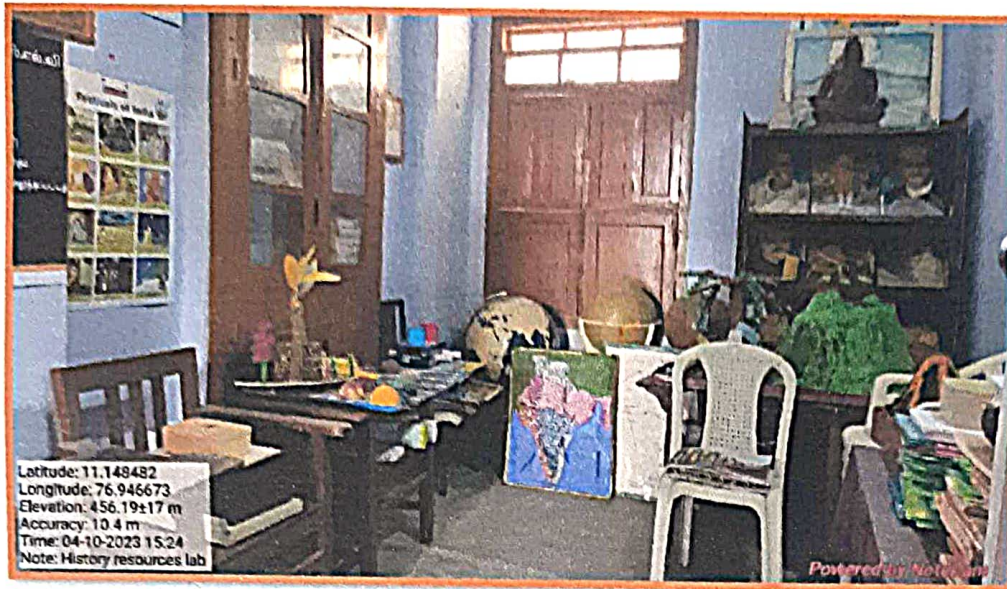
Commerce Learning Resource Center

The Commerce Learning Resource Center has a collection of gadgets dealing with model bank, management, e-commerce and e-banking, international trade etc., besides video and audio cassettes.

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