



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

Report on

Improvising STEM learning in Primary Schools “Making Learning Fun through Games and theatre” in Govt Primary Schools of village Bekra, Village Garhi Bajidpur and Village Ghamroj (commemorating World Literacy Day 2022) in collaboration with NSS

Date: Thursday, 08th September 2022.

Venue: Primary School of Village Ghamroj, Garhi Bajidpur and Berkra.

Event Type: Extension Activity

Mode of Activity: Offline Mode

Target Group: Students of SOED and school students Govt Primary Schools of village Bekra, Village Garhi Bajidpur and Village Ghamroj

Coordinators: Ms. Kanchan Khatreja and Ms. Deepika

Organized by: SOED with NSS

Number of Participants: 18 Student-Teachers of SOED including NSS Volunteers

Introduction

“Students need not only knowledge, but experience that will develop confidence. To be successful, a student must learn to believe in their ability to accomplish tasks, believe that they can make a difference, and dare to dream of better outcomes. Hope is the foundation of all success.”

STEM is a curriculum based on the idea of educating students in four specific disciplines-science, technology, engineering, and mathematics. These fields share emphasis on innovation, problem-solving and critical thinking. STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators. National Education Policy also emphasizes activity-based learning at foundational stage and explorations of relations among different subjects. Keeping this thing in mind, Student teachers organized extension activities improvising STEM learning for school students. Student teachers prepared lessons of various subjects using STEM and performed activities in nearby schools that created interest among the students. They engaged school students in direct experiences of different subjects such as Mathematics and Science. They demonstrated various activities using models, flash cards, experiments, fun games etc.

It provided experiential learning to student teachers as the students were engaged through learning by doing and by reflecting on the experience. STEM learning is effective as it provides hands on experience to the students. STEM education teaches students how to solve problems by using


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It provided experiential learning to student teachers as the students were engaged through learning by doing and by reflecting on the experience. STEM learning is effective as it provides hands on experience to the students. STEM education teaches students how to solve problems by using critical thinking skills. STEM learning is also important for the students in their everyday life in our contemporary world, with the increase of new technologies in biomedicine, microfabrication, robotics and artificial intelligence.

Objectives

The objectives of the activity were as follows:

1. To equip the student-teachers with skill sets for integrating STEM into teaching at the primary school level.
2. To provide experiential learning to student-teachers by integrating educational games and theatre in teaching learning process at the primary school level.
3. To making teaching- learning process interesting and engaging for children studying in primary schools in nearby village.

Methodology


The student-teacher prepared activities and lesson plan based on STEM education. The activities were based on Mathematics, Science and theatre.


Content

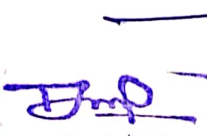
Individuals must adapt to innovations in order to cope with the rapid developments in the information and technology age. Individuals must have creativity, critical thinking, research, questioning, problem solving, and collaboration skills in order to adapt to new technologies. These are 21st century skills. The students- teachers should be equipped with all of the above mentioned abilities. The students were trained to make STEM based activities and demonstrate the same in school extension activities.

Students showed that although they first struggled, they were incredibly passionate about taking part in the process. The majority of students, it was found, found science to be boring, yet they enjoyed the activity and made considerable gains in their learning. It was discovered that they had never previously connected the knowledge they had learnt with their daily lives, and they had grown conscious of the fact that they could make use of this knowledge by rethinking it. The majority also mentioned that they intended to work in STEM fields and that in order to succeed, one needed to be persistent during the application process.

The student teachers taught various concepts to school students including, fractions, place values.


Kamal Khatri


Deepika


Tania Anand

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K.R. Mangalam University
Sohna Road, Gurugram (Haryana)

08/09/22

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3D shapes, Parts of plants, addition, Number line etc. with the help of activities.

Outcome

The outcome of activity were as follows

- Student-teachers prepared and submitted a reflective report on the spectrum of activities conducted for STEM, Theatre and Games integration into the teaching-learning process. This will be converted into a research publication based on fieldwork.
- Students took interest in various subjects through experiential learning.
- Students understood the concept of STEM education and importance in school education.

Conclusion

The activities developed by the student-teacher for students were effective. The school students liked the activities and enjoyed learning. This also helps to enhance STEM attitudes, scientific creativity, motivation beliefs of the students. It was determined that the students considered the STEM education instructive, entertaining, creative and motivating.

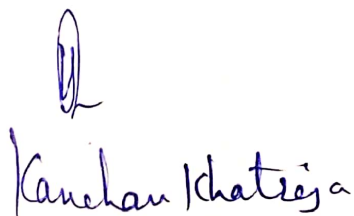
Further Scope

In contemporary society, economic development varies and develops with technological innovations and advances. The activities made by the students can be based on Robotics.

Pics (non-geotagged for social media /geotagged for NAAC) with Date and Captions



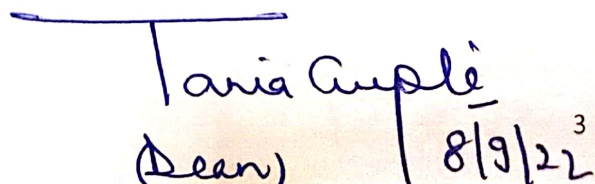
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Kanchari Khatrija



Deepika



Tania Anple
(Dean) 8/9/22³





Photo1: Student-teacher performing activity in the school



Photo2: Teacher interaction with students regarding significance of World Literacy day

Kanchan Khatri

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Tania Anple
(Dear) 8/9/22



Photo3: Student-teacher performing activity in the school and students enjoying the activity.

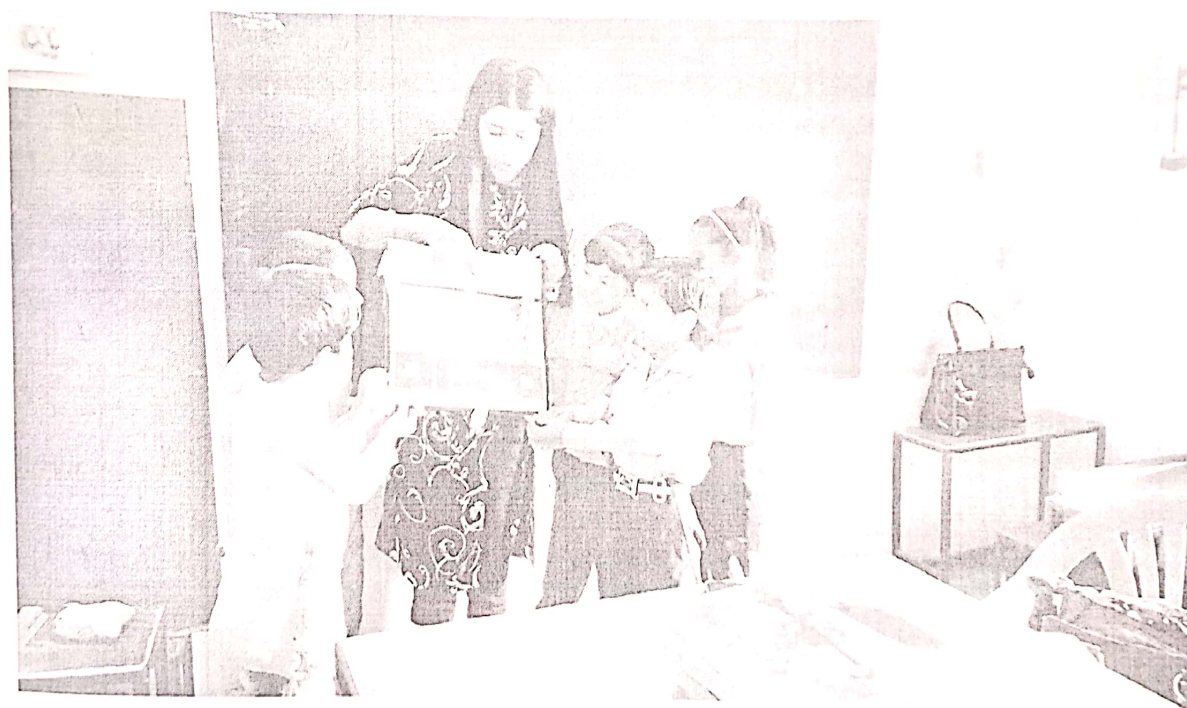


Photo4: Student-teacher engaging students in performing activity in the school.

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Kaanchan Khateeja

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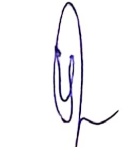
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Tania Gupta
(Dean)
Staff


Report Prepared by	Ms. Deepika
Report verified by Event Coordinators	Ms. Deepika & Ms. Kanchan Khatreja
Report Seen by Dean / Club Coordinator / Activity Coordinator/ IQAC Director / Registrar	Prof. (Dr.) Tania Gupta

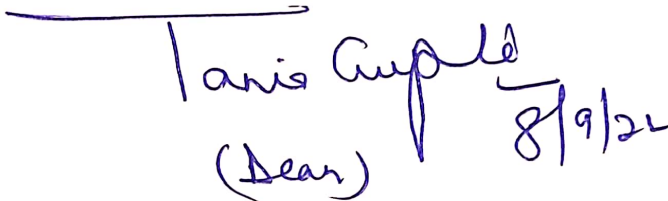
Annexure I: Feedback from target audience (extension activity)

Annexure II: Questionnaire (for extension activity only)

Annexure III: Attendance


 Kanchan Khatreja


 Deepika


 Tania Gupta
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SCHOOL OF EDUCATION

Attendance Sheet of Extension Activity on World Literacy Day

S. No.	Roll No.	Name of Student	COURSE & SEMESTER	SIGNATURE
1	2011260001	MEGHA	B.El.Ed. Sem 5	Megha
2	2011260002	ADITI VERMA	B.El.Ed. Sem 5	Aditi
3	2011260003	VEDANT	B.El.Ed. Sem 5	Absent
4	2011260004	BHUMIKA THAKRAN	B.El.Ed. Sem 5	Bhumi
5	2011260005	MOKSHITA SETHI	B.El.Ed. Sem 5	Mokshita
6	2011260006	MANSI DRALL	B.El.Ed. Sem 5	Mansi
7	2011260007	DEVIKA	B.El.Ed. Sem 5	Devika
8	2011260008	JEEVANSI MAHNA	B.El.Ed. Sem 5	Jeevansi
9	2011260009	NEERU KUMARI RAI	B.El.Ed. Sem 5	Neeru
10	2011260010	NEHA KHATANA	B.El.Ed. Sem 5	Neha
11	2011260011	AMISHA ANAND	B.El.Ed. Sem 5	Amisha
12	2011260012	ARISHA KUMARI	B.El.Ed. Sem 5	Absent
13	2011260013	AARUSHI	B.El.Ed. Sem 5	Aarushi
14	2011260014	VARNIKA KATARIA	B.El.Ed. Sem 5	Varnika
15	2011260015	ANJALI	B.El.Ed. Sem 5	Anjali

Event Co-ordinator

Deepika Kanchar
Ms. Kanchar Khatrija

[Signature]

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K.R. Mangalam University
Sohna Road, Gurugram (Haryana)

Dean

Tarun Gupta
8/9/22





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S. No.	Roll No.	Name of Student	COURSE & SEMESTER	SIGNATURE
1	2111260002	DEEPSHIKHA		
2	2111260003	AKANSHA DAHIYA		
3	2111260005	MUSKAN SHARMA	B.Ed. Ed	<u>Muskan</u>
4	2111260006	VAISHALI SHARMA		
5	2111260007	AYUSHI SONI		
6	2111260009	SARITA		
	2111260010	ISHIKA CHANDOLA		
8	2111260011	ANNU SEHRAWAT		
9	2111260014	SIMRAN KUMARI		
10	2111260015	VANI MEHRA (NSS Volunteer)	B.Ed. Ed	<u>Vani</u>
11	2111260016	AASHI (NSS Volunteer)	B.Ed. Ed sem-3	<u>Aashi</u>
12	2111260017	KASHISH SHARMA		
13	2111260018	KASHISH SHARMA		

Event Co-ordinator

Deepika Kanchan
MUKANCHAN KHATREJA

Dean

Tania Anjali
8/9/22

[Signature]
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K.R. Mangalam University
Sohna Road, Gurugram (Haryana)

