RAJEEV GANDHI GOVT. P.G. COLLEGE, AMBIKAPUR, SURGUJA (C.G.)



ANNUAL REPORT of **KNOWLEDGE ENRICHMENT CIRCLE**

SESSION: 2023-24 DEPARTMENT OF MATHEMATICS



Sayus

Dr. SANGEETA PANDEY Asst. Prof. & Head **Department of Mathematics**

ABOUT KNOWLEDGE ENRICHMENT CIRCLE:

Knowledge enrichment circle is a circle created with the aim of providing students not just the syllabus but basic knowledge of the subject, modern advancement and developing Mathematics attitude. Students and teachers are in the circle after the class, teaching with techniques improves the learning process.

MISSION

To enrich students with current advancement knowledge of Mathematical Domain.

OBJECTIVES

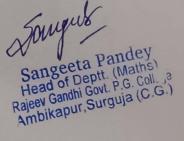
- To inculcate Mathematical attitude
- * To develop method of problem solving skills
- To develop students' interest and participation in practical applications of the knowledge related to different branches of Mathematics and other disciplines
- * To aware students about soft skills of Mathematics

MEMBERS (Teachers)

S.No.	Name	Designation
1	Payal Vishwakarma	Guest lecturer
2	Pankaj Yadav	Guest lecturer
3	Jyoti Shukla	Guest lecturer
4	Hina Bee	Guest lecturer

MEMBERS (Students)

S.No.	Name	Class
1	Sohar Sai	M.Sc I/II Sem
2	Sneha Singh	M.Sc I/II Sem
3	Sushma Chandra	M.Sc I/II Sem
4	Sneha Jaiswal	M.Sc I/II Sem
5	Kunal Raj Sinha	M.Sc.III/IV Sem
6	Aman Thakur	M.Sc.III/IV Sem
7	Manisha Gupta	M.Sc.III/IV Sem
8	Divya Bai	M.Sc.III/IV Sem



ORGANIZED ACTIVITIES **ACTIVITY NO. 1**

Discussion on Free Open Source Software

Date: 14/09/2023

Under KEC Mathematics department organized a discussion on Free open source software used for Mathematics such as Maxima, Maple, Scilab, Geogebra. Due to need of advance technology in research, These software are mostly used by researchers. So students must have acquire knowledge about these softwares. The presentation were given by teachers of Mr. Pankaj Yadav, Department of Mathematics. There were 17 students benefitted by this activity.



ACTIVITY 02

Discussion On Famous Indian Mathematicians

Date: 10/10/2023

Under KEC, Mathematics department organized a discussion on Famous Indian Mathematicians. Program started with a question which was based on Magical Number. Students had very curiosity about this question. After that teacher deals this questions in very interesting ways. In this session students and teacher discussed onShrinivasaRamanujan and his contributions in the field of Mathematics. There were 17 students participate in this discussion. Students were very inspired & had fun with a programme.



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ACTIVITY NO. 03

Beauty of Nature & Mathematics

Date: 15/12/2023

Gods created nature in very logical and fantastic ways. In this beautiful nature the concept of Mathematics exists. It is said that only two structures exist in nature spiral and fractal. Some elements are based on the Fibonacci series. On these phenomena a discussion class organized by department of Mathematics. In this discussion many examples were taken from nature as Rose, Lilly, different structures of leaves, fertilization process of rabbits etc. There were some students participate in this discussion. Students were very inspired & had fun with a programme.





Sangee 1 Pandey
Head of Deptt. (Maths)
Rajeev Gandhi Govt. P.G. Coll. Janbikapur, Surguja (C.G.)

ACTIVITY NO. 04

Discussion on Research Methodology

Date: 25/04/2024

Research is an important for all PG students for their further studiy point of view. This discussion class was organized by department of Mathematics for PG students. In this activity learn about various methodologies of research such as how do we select a topic, Literature review, Hypothesis making and testing and research design. Students said that this discussion will be very helpful for project and Dissertation Work. There were 17 students participate in this discussion



Sangeeta Pandey
Head of Deptt. (Maths)
Rajeev Gandhi Govt. P.G. Coll. je
Ambikapur, Surguja (C.G.)

CONCLUSION: These activities help students to enrich their knowledge about Mathematics & its related areas. Through these activities, curious students strengthen their capacity in the field of Mathematics ,Reasoning & other areas related to their life.

Sangeeta Pandey
Head of Deptt. (Maths)
Rajeev Gandhi Govt. P.G. Col.
Ambikapur, Surguin (C.G.)



Department of Mathematics **Event Calendar of Knowledge Enrichment Circle**

Session:2023-24

S.No.	Name of Event	Date	Remark
1	Discussion on Free Open Source software	14/09/2023	
2	Discussion on Famous Indian Mathematician	10/10/2023	٤.
3	Beauty of Nature and Mathematics	15/12/2023	
4	Discussion on Research Methodology	25/04/2024	





Department of Mathematics Activity Attendance Sheet

Session:..2023-24.

Name of Activity: Discussion on FOSS Date of Activity: 14-09-2023

S.No.	Name of Participant	Class	Signature
1.	Abhishele Lakny	M.Sc. III sem	Abotzak
2.	Bindiya Parinkana	_+1	(B)-
3.	Parul Kushwaha	-11-	Parel
4.	Shorda singh kushweng	-11-	Berde
5.	Tomuja Bhagat	11	Tonuja
6.	Supraiya Bhagait	-11	Someyey
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8.	Abrishel Rajuede	M.SC. I Sen	Abhishake
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10.	Amish kushwaha	-11-	Aml-1
11.	Jaya Vorme	-11-	Hayarbring
12-	Abhishele Rymen	11	Abs
13.	Tekram.	-11-	Hea
14.	Son kymori singh.	_11-	Dongly
15.	Parmanenel Gupte	B.SC. III Sp	
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17.	Anyradha Singh	-11-	Anumache

Sangee in Pandey Head of Deptt. (Maths) Rejeev Gandhi Govt. P.G. College Ambikapur, Surguja (C.G.)



Department of Mathematics **Activity Attendance Sheet**

Session: 2023-24 Name of Activity: Discussion on Formory Indian Mathematician

Date of Activity:....10.-1.0.-2023

S.No.	Name of Participant	Class	Signature
01	Aray ku Nayak	Misc. III spr	AJAY
02	Dinesh Barwey	-11-1	Dysave
03	Jyoti Raj	←11 —	Jyerti W
04	Pramod Ku-Sahy	-11-	(B) sohu
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06	Sarity	M.SC. ISm	Sorita
07	Jaya Vorma	M.Beilson	Beignarins
08	Manita Painkary	-11-	Mintery
89	Mamta Samet	-11-	member
10	Manita Painhone	-11-	Mennikaz
11	Hemont Yadar	-11-	Home
12	Myslan Tiwani	B.S.C.III Spm	modelity
13	Ashish ku. Sahu	-11-	Aleger
14	Ashok Minj	-11-	Ashole
15	Bhala Prescid Buinkary	-11-	Balappertes
16	Ackarsh Louptey	B.Sc-Ison	
17	Divyensh dubey	-11-	Down

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Department of Mathematics **Activity Attendance Sheet**

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Date of Activity: 15 12	2023	

S.No.	Name of Participant	Class	Signature
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RAJEEV GANDHI GOVT. P.G. COLLEGE, AMBIKAPUR, SARGUJA (C.G.)



ANNUAL REPORT of **KNOWLEDGE ENRICHMENT CIRCLE**

SESSION: 2022-23 DEPARTMENT OF MATHEMATICS



Asst. Prof. & Head **Department of Mathematics**

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OBJECTIVES

- * To inculcate Mathematical attitude
- To develop method of problem solving skills
- * To develop students' interest and participation in practical applications of the knowledge related to different branches of Mathematics and other disciplines
- To aware students about soft skills of Mathematics

MEMBERS (Teachers)

S. N.	Name	Designation
14.	Payal Vishwakarma	Guest Lecturer
	Jyoti Shukla	Guest Lecturer
		Guest Lecturer
	Hina Bee	Guest Lecturer

MEMBERS (Students)

S.No.	Name	Class
5.INU.	Jyoti Roy	M.Sc I/II Sem
2	Surojeet Paul	M.Sc I/II Sem
	Supriya Bhagat	M.Sc I/II Sem
3	Nileema Bhagat	M.Sc I/II Sem
 5	Ankit Sahu	M.Sc.III/IV Sem
	Yashoda Yadav	M.Sc.III/IV Sem
6	Srikant Chauhan	M.Sc.III/IV Sem
7		M.Sc.III/IV Sem
8	Deepak Sidar	

ORGANIZED ACTIVITIES ACTIVITY NO. 1

Discussion on Soft Tools of Mathematics

Date: 20/08/2022

Under KEC Mathematics department organized a discussion session on Soft Tools of mathematics. Maxima, Maple, Scilab, and Geogebra are such soft tools of Mathematics. Due to need of advance technology in research, these tools are very useful for students & researchers. So students must have acquired knowledge about these softwares. The presentation were given by Hina Bee department of Mathematics. There were 14 students benefitted by this activity.





ACTIVITY NO. 2

Mathematics in Nature

Date: 07/10/2022

Under KEC Mathematics department organized a discussion session on Mathematics in Nature. We know that Mathematics is all around us but rarely note it. We enjoy nature but why it is so interested and how mathematics is used in it, we don't know because we don't go to deep in it. By this discussion we tried to develop our vision to see nature in different way. Examples were provided which are scattered around us. Analyzing this fact, the students took interest and try to find out which kind of mathematical rules applied in nature. The presentation were given by teachers Jyoti Shukla., department of Mathematics. There were 12 students benefitted by this activity.

Line of Symmetry in Human Body





ACTIVITY 03

Discussion on Indian Mathematicians

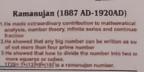
Date: 2/2/2023

Under KEC Mathematics department organized a discussion session on Indian Mathematicians. This topic is very important for discussion because our mathematicians made significant contribution to the field of Mathematics & Science throughout history. One of the most notable is Aryabhata (476-550CE)who introduced concepts such as the value of pi, place value system and algebra. Brahmagupta (598-668 CE) known for his work on Arithmetic and the rules for handling zero and negative numbers. In the medieval period, Madhava of Sangamagrama for calculus with his work on infinite series. More recently SrinivasaRamanujan (1887-1920) made profound contributions to number theory, continued fractions mathematical analysis. Students were interested to know about more information about mathematicians. The presentation were given by Payal Vishwakarma, department of Mathematics. There were 13students benefitted by this activity.











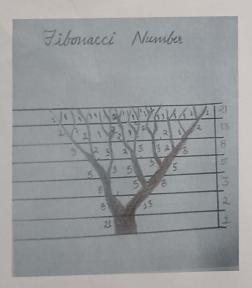
ACTIVITY NO. 04

Fibonacci Sequence and the Golden Ratio

Date: 18/03/2023

Under KEC Mathematics department organized a discussion session on Fibonacci Sequence and the Golden Ratio. There is a unique ratio that can be used to describe the proportions ofeverything fromnature's smallest building blocks, such as atoms, to the most advanced patterns in the universe, like the unimaginably large celestial bodies.

The golden ratio is derived from the Fibonacci numbers, a series of numbers where each entry is the sum of the two preceding entries. Although this sequence is associated with Leonardo of Pisa, the Fibonacci numbers were actually formulated for the first time by the Indian mathematician, Virahanka, 600 years prior to their introduction to the Western World.1. The presentation were given by Manisha Gupta, department of Mathematics. There were 9 students benefitted by this activity.





CONCLUSION-These activities help students to enrich their knowledge about Mathematics & its related areas. Through these activities, curious students strengthen their capacity in the field of Mathematics, Reasoning & other areas related to their life.





Department of Mathematics Event Calendar of Knowledge Enrichment Circle

Session:2022-23

S.No.	Name of Event	Date	Remark
1	Discussion on Soft Tools of Mathematics	20/08/2022	
2	Mathematics in Nature	07/10/2022	
3	Discussion on Indian Mathematicians	02/02/2023	
4	Fibonacci Sequence & the Golden Ratio	18/03/2023	



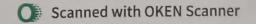
Department of Mathematics **Activity Attendance Sheet**

Session: . 2022-23. Name of Activity: Dissussion on soft Took of Mothernatice

Date of Activity: 20-08-2022

S.No.	Name of Participant	Class	Signature
01	Kumalraj Sinha	Misc Isem	hund
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03	Rejenden Singh	M.SGTIJSem	drivet
04	Vandara Shejvestav	-11	Vandous
20	Akash patel	B-Sl. Isem	Alme
06	Arnet Halday		Akash
07	Anixuddh Shah	11	48hah
08	Ashish Ekka	<u> </u>	- Ashish
09	Preamod ky Rozwade	и	- pramad
10	Rajesh katle	-11 -	- Rajent
11	Romesh	_ n _	- Kan
12	Sweta Singh	4 _	Screta
13.	Aradhma Ti'mani	B.Se. M.S.	a Agatumi
14.	Devenend Gupty	-11-	Donaleter
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Head of Deptt. (Maths)
Prizev Gandhi Govt. P.G. Col. 13
Ambikapur. Surguja (C.G.)



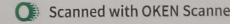


Department of Mathematics Activity Attendance Sheet

Session:20.22-23	
Name of Activity: Mathematis, in Nature	
Date of Activity: 7/10/22	

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5.No.	Name of Participant	Class	Signature
OT	Shrawan Sonwani	M.Sc. Il Sem	त्रया साम्यानी
02	Taning Bhagot	11 -	Tahaque
03	Nileema Painkag	- n -	Mileena
04	Shivdarshon singh		शिय ७ थी 👫
20	Poyanshy yadan	MISCITT Ser	जियाङ्ग पादव
06	Makesh ker. Vishwakaman		-Manus Ko. Vi
07-	Umesh yadav		- Connech
08	Abhishek. Gupta	11	Alphishel
09	Shellom Shapma	B.Sc. Wse.	of Hivam
10^	Shiram Missay	1-	- Smissres
11,	Rimphim Agripual	<u> </u>	- Romans al
12	Shippondon Singh	и -	Shivenone
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Sangeeta Pandey Head of Deptt. (Maths) Rajeev Gandhi Govt. P.G. Col. Ja Ambikapur, Surguja (C.G.)







Department of Mathematics Activity Attendance Sheet

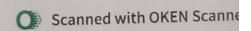
Session: 2022-23...

Name of Activity: DIS. CLESSI'ST. GTD. Indicent. M. of Median Colors.

Date of Activity: 02/2/23

	Activity	Class	Signature
S.No.	Name of Participant		Dilip dupter
01	Delip Gupta	B-SG NSem	Lilauthi
02	Khyshi	- и	100 MARIAN
03	Manisha	4	Myzna
04	Meeng Yaday	- "	Sande Sounds
65	Sandeep Lakela		Rainel
06	Razesh ku. yadan		- Oriti
07	presti kevat	M.SG. TUSA	Alask
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09	Reigenshu yadan	- u e	राम-पन्द्र प्रमारे अ
10	Raichard Plasad Grapta		11
11	Fray kes Hoyalc	14.SG 11 SG	em Man
12	Abhishek lakela		Plaking
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Sangeeta Pandey Head of Daptt. (Maths) Rajeev Gandhi Govt. P.G. Col. ja Ambikapur, Surguja (C.G.)





Department of Mathematics **Activity Attendance Sheet**

Session: .. 2022 - 23.

Name of Activity: Falsono. (ci. Sequence and the Golden Redo

Date of Activity: 18-03-2022

S.No.	Name of Participant	Class	Signature
1	RAJENDRA SINGH	MSC III. Sen	Ringh -
2	VANDANA SHRIYASTAVA		Variouse
3	ABHISHEK GUPTA	-11-	Abhishel
4	ANKIT SAHU	—11——	Aaulit
5	HARISH RAJWADE	-11-	- lourielu
6	RAYCHAND PR. GUPTA	-11-	राभचन्द्रे भूरनाद
7	SAMIKA CHANHAN	-11-	Samika
8	SANTAN RAM	-)1-	Santan
9	SNEHA GUPTA	-11-	- Sneha
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Sangeeta Paridey Head of Deptt. (Maths) Rajeev Gandhi Govt. P.G. Col. 3 Ambikapur, Surguja (C.G.)



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SESSION: 2021-22 DEPARTMENT OF MATHEMATICS



Asst. Prof. & Head **Department of Mathematics**

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MEMBERS (Teachers)

S.No.	Name	Designation
1	Payal Vishwakarma	Guest Lecturer
2	VandanaTiwari	Guest Lecturer
3	Jyoti Shukla	Guest Lecturer

MEMBERS (Students)

S.No.	Name	Class
1	Raichand Prasad Gupta	M.Sc I/II Sem
2	Sneha Gupta	M.Sc I/II Sem
3	YashodaYadav	M.Sc I/II Sem
4	Alok Yadav	M.Sc I/II Sem
5	Rashi Garg	M.Sc.III/IV Sem
6	Vishal Kashyap	M.Sc.III/IV Sem
7	AafrinNaaz	M.Sc.III/IV Sem
8	Srishti Singh	M.Sc.III/IV Sem



ORGANIZED ACTIVITIES ACTIVITY NO. 1

Discussion on Citation & References in Research

Date: 22/11/2021

1. Under KEC Mathematics department organized a discussion session on Citation & References in Research. Due to its significance in the field of research, citation & reference are very important factor. By citation a researcher enhances their research work. Reference strengthen the work of researcher showing the sources of material .Citation & references are the basic factor of research to develop more ideas for their topics. Student showed their enthusiasm & zeal for this discussion. Participating in this discussion student asked many questions regarding the application of citation & references. The presentation was given by Vishal Kashyap, Deptt. of Mathematics. There were 11students benefitted by this activity.





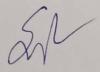
ACTIVITY 02

Discussion on Research Methodology of Maths

Date: 19/03/2022

Under KEC Mathematics department organized a discussion session on Research Methodology. Methodology is the strategy to conduct the plan in which a researcher does their all works to find desiring facts. Since Dissertation is regular paper in PG Course & this is also the preface of research, so students are treated in such way that they may know the rule of research methodology. There are 10 students participated in this discussion. They remove their queries.





CONCLUSION-These activities help students to enrich their knowledge about Mathematics & its related areas. Through these activities, curious students strengthen their capacity in the field of Mathematics, Reasoning & other areas related to their life.

MI

H.O.D.

Sangeeta Pandey

Head of Deptt. (Maths)

Head of Govt. P.G. Coll. 13

Rajeev Gandhi Govt. P.G. (C.G.)

Ambikapur, Surguja (C.G.)



Department of Mathematics Event Calendar of Knowledge Enrichment Circle

Session:2021-22

S.No.	Name of Event	Date	Remark
1	Discussion on Citation and references in Research	22/11/2021	
2	Discussion on Research Methodology of Mathematics	19/03/2022	

H.O.D.



Department of Mathematics **Activity Attendance Sheet**

Name of Activity: Discussion on Citation and Victoriale in deserve

Date of Activity: 22/11/2021

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	4	POONAM CHAWDA	-11-	Roonam
	5	FIZA KHATOON		Pila
	16	VISHAL KASHYAP	//	Vishel
	17	SHRISTI SINGH	11-	Bsingh
	8	ABHTSHEK GUPTA	MSC I Sen	n Ahhishell
	9	RAJENDRA SINGH	MSCISE	
	10	RAYCHAND PR. GUPTA	1	-रामचर प्रमादगुर्स
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Sangeeta Pandey Head of Deptt. (Maths) Rajec Caroni Govt P.G. Coli je Ambilopur Surguja (C.G.)



Department of Mathematics **Activity Attendance Sheet**

Name of Activity: Discussion on Research Methodology of Moth

Date of Activity: 19/03/2022...

Date o	1 Activity	Class	Signature
S.No.	Name of Participant		Dall
1	ALOK YADAV	MSCIT Sem	A.1/14
2	ANKTT SAHU		14. L
3	AMIT KU. YADAY		11 101010
4	ABHISEK GUPTA		ATIONI SUC
5	AAKASH (HOUDHARY		V II > od
6	ABHISEK BEHARA	MSCTV Sem	Apple or
7	AKANKSHA TIRKEY		OVIV a
8	ARADHANA FKKA	————	Aghigh
9	AASHISH YADAV		[Asider]
10	GAURAV GUPTA		Game
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Head of Deptt. (Marks)
Rajeev Gandhi Govt. P.G. Coll. Je.
Ambikapur, Surguja (C.G.)