### CHATRAPATHI SIVAJI TRI SATAJAYANTHI (CSTS) GOVERNMENT KALASALA, JANGAREDDIGUDEM, ELURU DIST., A.P.



### **DEPARTMENT OF MATHEMATICS**

### **ENLIGHTENING MINDS: A VIRTUAL JOURNEY THROUGH REAL ANALYSIS**

on 12-07-2023

#### The objectives for this event can be as follows:

**1. Academic Enrichment:** The primary objective of the guest lecture was to enrich the students' academic knowledge and understanding of Real Analysis. Dr. CH Paparao, being an expert in the field, provided valuable insights, theories, and practical applications, elevating the students' comprehension of the subject.

**2. Enhanced Presentation Skills:** By organizing a guest lecture, the college aimed to provide students with an opportunity to witness a well-structured and professionally delivered presentation. This exposure can inspire students to improve their own presentation skills, fostering confidence in articulating complex ideas.

**3. Promotion of Collaborative Learning:** The event's objective included promoting a collaborative learning environment, wherein students could actively engage with the guest lecturer, ask questions, and exchange ideas. Such interactions encourage critical thinking and intellectual discussions among students.

**4. Exposure to Expertise:** By inviting a renowned scholar like Dr. CH Paparao, the college aimed to expose students to diverse perspectives and academic excellence. Interacting with experts can motivate students to aspire to higher academic achievements and pursue careers in their chosen fields.

**5. Effective Program Management:** The successful organization of the virtual guest lecture demonstrated the college's objective to implement efficient and effective program management in the digital realm. This expertise is vital for adapting to modern teaching methods and meeting the demands of remote learning.

**6. Leadership Development:** The presence of Dr. CH Badari Narayana as the program conductor showcased the college's commitment to nurturing leadership skills among faculty members. Encouraging faculty to take charge of such events fosters a culture of responsibility and initiative.

**7. Adaptation to Virtual Learning:** Conducting the lecture in a virtual mode demonstrated the college's objective of adapting to modern technologies and utilizing online platforms to ensure continued learning even in challenging circumstances.

**8. Incorporating Student Feedback:** By collecting feedback from students, the college aimed to gauge the success of the guest lecture and identify areas for improvement. Student feedback is invaluable in tailoring future events and enhancing the overall educational experience.

**9. Inspiration and Motivation:** A guest lecture by a distinguished scholar can inspire and motivate students to explore the subject further, pursue higher education, and engage in research. Such inspirational events can have a lasting impact on students' academic and professional trajectories.

**10. Showcasing Institutional Excellence:** By hosting an exemplary virtual guest lecture, CSTS Government College showcased its commitment to academic excellence, innovative teaching practices, and fostering a conducive learning environment for its students.

#### **NOTICE**

It is proposed to conduct departmental staff meeting on 21-06-2023 at 4PM in the Department of Mathematics.

**Agenda of the meeting**: Internship Viva-Voce, Feedback collections, Online Virtual mode Guest Lecture etc.

- 1. Dr. CH. Badari Narayana, Lecturer in Mathematics,
- 2. Dr. K. S. Rajesh, Lecturer in Computer Science,
- 3. Sri. G. V. Gangadhara Rao, Lecturer in Physics.

Principal

#### **MEETING**

Departmental meeting was held on 21-06-2023 at 4PM in the Department of Mathematics under the chairmanship of Dr. N. Prasad Babu, Principal of this college. And the following issues have been resolved.

- It is decided to conduct an Online Virtual mode Guest Lecture to enrich the knowledge of students.
- It is decided to take student's feedback forms and analyze them to gather valuable insights and improve the overall learning experience.
- It is also decided that to conduct Long term Internship's Viva-Voce for III year B.Sc Students.

The following members are present and signed.

- 1. Dr. CH. Badari Narayana, Lecturer in Mathematics,
- 2. Dr. K. S. Rajesh, Lecturer in Computer Science,
- 3. Sri. G. V. Gangadhara Rao, Lecturer in Physics.

Principal

#### **NOTICE**

#### Dt: 11.07.2023

In accordance with the new innovations and recent trends in academic excellence, the Department of Mathematics is delighted to announce an upcoming online virtual guest lecture. The lecture will focus on the topic of "Real Analysis." This event is scheduled to take place on 12th July 2023 at the Virtual Classroom, commencing from 2:30 PM and concluding at 3:30 PM. We are pleased to inform you that this lecture is being organized in collaboration with other science departments.

We extend a cordial invitation to all Science students to participate in this enlightening program. Your active participation will undoubtedly contribute to making it a grand success.

PRINCIPAL

I B.SC(MPC)

II B.SC(MPC)

III B.SC(MPC)

I B.SC(MPCS)

II B.SC(MPCS)

III B.SC(MPCS)

I B.SC(BZC)

II B.SC(BZC)

III B.SC(BZC)

I B.SC(BCH)

II BSc (BCH)

#### **Enlightening Minds: A Virtual Journey through Real Analysis**

On the noteworthy date of 12th July 2023, a momentous event unfolded at CSTS Government College. In the midst of the prevailing virtual mode, an eminent scholar and erudite mind, Dr. CH Paparao, a distinguished Lecturer in Mathematics from Government Degree College, Kothapeta,Konaseema Dist. graced the occasion with a thought-provoking guest lecture on the subject of Real Analysis. The lecture was skillfully delivered, captivating the minds of the attentive second-year science students who were fortunate to be part of this intellectually enriching experience.



The program was orchestrated seamlessly by the astute and experienced Dr. CH Badari Narayana, whose meticulous planning and coordination ensured the success of the event. In the virtual realm, the distinguished presence of Dr. N. Prasad Babu, the esteemed Principal of CSTS College, added an aura of distinction to the occasion.

To manage the complexities of this virtual program, the capable assistance of Dr. KS Rajesh and Sri. GV Gangadhara Rao proved to be invaluable. Their technical expertise and commitment to excellence played a vital role in ensuring a smooth and engaging experience for all participants.



Understanding the importance of constructive feedback, the organizers thoughtfully incorporated a feedback mechanism for the students. This allowed the participants to express their thoughts, observations, and suggestions about the program. Encouraging active participation and capturing the students' perceptions will undoubtedly aid in refining future events and optimizing the learning experience for all.



In conclusion, this online guest lecture on Real Analysis became a beacon of knowledge, enlightening the young minds and igniting a passion for learning. It showcased the college's commitment to fostering academic excellence, intellectual growth, and innovative teaching practices in this ever-evolving digital era.

#### **Paper Clip:**



### CHATRAPATHI SIVAJI TRI SATAJAYANTHI (CSTS)

### GOVERNMENT KALASALA, JANGAREDDIGUDEM

### ELURU DIST., A.P.



### **DEPARTMENT OF MATHEMATICS**

NATIONAL WEBINAR ON MATHEMATICS

THEME: EXPLORING THE BEAUTY AND COMPLEXITY OF MATHEMATICAL STRUCTURES IN NATURE

**MARCH 07th 2024** 

## CHATRAPATHI SIVAJI TRI SATA JAYANTHI (CSTS)

**GOVT. KALASALA** 



Enter to Learn - Leave to Serve

Jangareddigudem, Eluru Dist

Phone : 08821-225310, Visit us at :

www.cstsgk.ac.in

E-Mail: jangareddigudem.manatv@gmail.com

27-02-2024.

From: Dr.CH.Badari Narayana, Department of Mathematics.

To: The Principal, C.S.T.S Govt kalasala, Jangareddigudem.

Sub: Permission to Conduct National webinar on 07-03-2024-Request regarding.

Department of Mathematics is proposed to conduct a National Webinar On 07-03-2024. The invited speakers for the National Webinar On Mathematics are Dr.S.Durga Bhavani,University of Hyderabad, School of Computer and information sciences Dr.R.Radha University of Hyderabad School of Mathematics and Statistics. Hence I request you to permit me to conduct the above mentioned national webinar.

Thank You Sir,

Yours faithfully (Dr.CH.BADARI NARAYANA)

DEPARTMENT OF MATHEMATICS

Permitted

Principal CSTS Govt. Kalasala Jangareddigudem-534447 Eluru Dist.,A.P

#### NOTICE

It is proposed to conduct departmental staff meeting on 05-02-2024 at 4PM in the Department of Mathematics.

Agenda of the meeting: National Webinar, National Science Day Event, Student's tutorial, Conduction of Mid Exams etc.

1. Dr. CH. Badari Narayana, Lecturer in Mathematics,

CIB

2. Dr. M. Madhu, Lecturer in Chemistry,

BY BY HA M. LINE MELLER.

The state of the state of the state of the

3. Dr. K. Uttam Sagar, Lecturer in Commerce.

KOttamsefee

69

CSTS Govi. Kalasala Jangareddigudem-534447 Eluru Dist. A.P

#### MEETING

Departmental meeting was held on 05-02-2024 at 4PM in the Department of Mathematics under the chairmanship of Dr. N. Prasad Babu, Principal of this college. And the following issues have been resolved.

- Resolved to organize a national webinar on the subject of mathematics, addressing timely topics and aiming to facilitate knowledge sharing and professional development among students with renowned experts.
- Also resolved to establish student tutorials, where undergraduate students from our college will teach mathematics subjects to intermediate (10+2) level students, with the aim of facilitating knowledge sharing and mutual benefit.
- Also Resolved to execute the conduction of mid-term examinations, adhering to maintaining integrity in assessment processes.

The following members are present and signed.

- 1. Dr. CH. Badari Narayana, Lecturer in Mathematics, CH21
- 2. Dr. M. Madhu, Lecturer in Chemistry, p.9-
- 3. Dr. K. Uttam Sagar, Lecturer in Commerce.

Kützmieße

Principal CSTS Govt. Kalasāla Jangareddigudem-534447 Eluru Dist.,A.P

NAAC: C (II Cycle)

### CHATRAPATHI SIVAJI TRI SATA JAYANTHI (CSTS) **GOVT. KALASALA**

Enter to Learn - Leave to Serve Jangareddigudem, Eluru Dist



Phone : 08821-225310, Visit us at :

www.cstsgk.ac.in E-Mail : jangareddigudem.manatv@gmail.com

#### **CIRCULAR**

06-03-2024.

Department of Mathematics is going to conduct National Webinar On 07-03-2024in college seminar hall. In this regard I request all Teaching staff to participate in national webinar to support and make it a grand success.

Thank You Sir,

SIGNATURE OF THE DEPARTMENT I/C

SIGNATURE OF THE STAFF MEMBERS

2) 3) 4) 5



SIGNATURE OF THE PRINCIPAL

Principal CSTS Govt. Kalasala Jangareddigudem-534447 Eluru Dist., A.P

### CHATRAPATHI SIVAJI TRI SATA JAYANTHI (CSTS) GOVT. KALASALA



Enter to Learn - Leave to Serve

Jangareddigudem, Eluru Dist

Phone : 08821-225310, Visit us at :



www.cstsgk.ac.in

E-Mail: jangareddigudem.manatv@gmail.com

NOTICE

05-03-2024

The Department of Mathematics is going to organize a National webinar on mathematics on 07-03-2024 from 10am onwards in seminar hall the invited speakers are going to deliver basic concepts of solid geometry and fractal geometry hence all the students are instructed to attend the seminar hall by sharp 10am.

SIGNATURE OF THE DEPARTMENT I/C

I.BSC (CS)  $-\mathcal{K}$ IBSC(BOT)  $-\mathcal{K}$ II MPC  $-\mathcal{C}$ II MPCS  $-\mathcal{C}$ IBZC  $-\mathcal{K}$ II MPC  $-\mathcal{C}$  $\mathcal{K}$  IIBCH Laff IIBZC - V IIBCH - Laff II MPCS - K

SIGNATURE OF THE PRINCIPAL

Principal CSTS Govt. Kalasala Jangareddigudem-534447 Eluru Dist.,A.P

#### **Objectives:**

- 1. To Explore Fractal Geometry: The webinar aimed to introduce participants to the concept of fractal geometry and its relevance in understanding natural forms. By showcasing classical fractals like the Sierpinski carpet, Cantor set, and Mandelbrot set, the objective was to elucidate how fractals represent the intricate patterns observed in nature.
- 2. To Understand the Link between Fractals and Nature: Through discussions led by Professor S. Durga Bhavani madam, participants were encouraged to explore the connection between fractal geometry and natural phenomena. By examining how space-filling curves relate to contemporary DNA fractal structures, attendees gained insights into the application of mathematical principles in biological sciences.
- 3. **To Provide Insights into Solid Geometry:** The webinar aimed to offer participants a comprehensive overview of solid geometry, led by Professor R. Radha madam. The objective was to equip attendees with fundamental equations governing geometric shapes and techniques for evaluating their surface areas and volumes.
- 4. **To Foster Knowledge Sharing and Engagement:** Through interactive sessions and discussions, the webinar sought to create an environment conducive to knowledge sharing and engagement. Participants were encouraged to actively participate in the sessions, ask questions, and contribute to vibrant discussions.
- 5. To Promote Appreciation for Mathematical Structures in Nature: Ultimately, the webinar aimed to foster a deeper appreciation for the beauty and complexity of mathematical structures found in nature. By exploring fractal and solid geometry, participants were encouraged to recognize the ubiquitous presence of mathematical principles in the world around them.



### CSTS GOVERNMENT KALASALA JANGAREDDIGUDEM



DEPARTMENT OF MATHEMATICS

NATIONAL WEBINAR ON MATHEMATICS

THEME: EXPLORING THE BEAUTY AND COMPLEXITY OF MATHEMATICAL STRUCTURES IN NATURE

**RESOURCE PERSONS** 

Prof. S. Durga Bhavani School of Computer and Information Sciences School of Mathematics and Statistics University of Hyderabad Topic: Fractal Geometry: Mathematics of Nature

Prof. R. Radha University of Hyderabad **Topic:** Solid Geometry-Overview

Abstract: Discover fractal geometry's portrayal of natural forms like the Sierpinski carpet, Cantor set, and Mandelbrot set. Uncover the connection between space-filling curves and contemporary DNA fractal structures. Explore fundamental equations governing geometric shapes and techniques for assessing their surface areas and volumes.



#### National Webinar on Mathematics

Date: March 7th, 2024

**Theme:** Exploring the Beauty and Complexity of Mathematical Structures in Nature. **Conducted by:** CSTS Government Degree Kalasala, Jangareddigudem.

**Introduction:** The National Webinar on Mathematics, organized by the Department of Mathematics at the University of Hyderabad, aimed to delve into the intricate and captivating realm of mathematical structures found in nature. With esteemed resource persons leading the discussions, the webinar provided participants with invaluable insights into fractal geometry and solid geometry.

#### **Resource Persons and Topics:**

#### Prof. S. Durga Bhavani madam

Affiliation: School of Computer and Information Sciences, University of Hyderabad

#### **Topic: Fractal Geometry: Mathematics of Nature**

Professor Bhavani madam began her session by introducing participants to the concept of fractal geometry and its significance in understanding natural forms. She elaborated on classical fractals such as the Sierpinski carpet, Cantor set, and Mandelbrot set, showcasing their intricate patterns and self-similar properties. Through visual aids and interactive examples, participants gained a deeper understanding of how fractal geometry reflects the complexity and beauty of nature. Furthermore, Professor Bhavani highlighted the fascinating link between space-filling curves and modern DNA fractal structures, shedding light on recent discoveries in genetics and biophysics. Attendees were engaged in discussions exploring the mathematical principles underlying these phenomena and their applications in various fields.



#### Prof. R. Radha madam

Affiliation: School of Mathematics and Statistics, University of Hyderabad

#### **Topic: Solid Geometry Overview**

Professor Radha madam's session provided participants with a comprehensive overview of solid geometry, focusing on fundamental equations governing geometric shapes and methods for evaluating their surface areas and volumes. Beginning with a discussion on basic geometric shapes such as lines, planes, spheres, cylinders, and cones, Professor Radha guided attendees through the mathematical principles underlying these shapes' properties. Through illustrative examples and problem-solving exercises, participants gained practical insights into calculating surface areas and volumes of various solids. Professor Radha emphasized the importance of solid geometry in diverse fields such as architecture, engineering, and physics, showcasing its relevance and applicability in real-world scenarios.



• ~ = = = + : 👩

8 E

#### **Abstract Overview:**

The webinar abstract set the stage for participants, offering a glimpse into the rich and diverse topics covered during the sessions. From exploring fractal geometry's portrayal of natural

forms to delving into the intricacies of solid geometry, participants were presented with a multifaceted journey through mathematical structures in nature.



#### **Registration and Participation:**

The webinar witnessed enthusiastic participation from 523 registered participants, who joined the sessions online through the Google Meet platform. Participants from across the country eagerly engaged with the resource persons, contributing to vibrant discussions and knowledge sharing.

S.No	College	No. of
		Responses
1.	CSTS Government Kalasa, Jangareddigudem	109
2.	Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada	189
3.	Pingle Govt. Degree College (A), Hanmakonda	01
4.	Pithapur Rajah's Government College (A), Kakinada	04
5.	Dr. Lakireddy Hanimireddy Govt. Degree College, Mylavaram	17

6.	AP Model School, Puroshothapatnam, Ichapuram		
7.	Pavitra Degree College, Bachupeta, Machilipatnam	11	
8.	Government Degree Arts College, Rajamundry	26	
9.	GDC Avanigadda	41	
10.	Government Degree College, Kamavarapukota	03	
11.	Sri Ramachandra Degree College, Jangareddigudem	08	
12.	SKR Government College for women, Rajamundry	08	
13.	Rayalaseema University	01	
14.	SKR & SKR Govt. Degree College for women(A), Kadapa	01	
15.	Yogi Vemana University, Kadapa	01	
16.	Sri ABR Government Degree College, Repalle	01	
17.	Adikavi Nannya University, Rajamundry	04	
18.	VKR College Gannavaram	02	
19.	KSN Government Degree College, Ananthapur	01	
20.	VKR College, Kesarapalli	13	
21.	JNTU GV, Vizianagram	02	
22.	Hindu College Guntur	01	
23.	KBN College, Vijayawada	01	
24.	Aditya Degree College for Women	01	
25.	SSR Degree College, Machilipatnam	01	
26.	DRG GDC, Tadepalligudem	11	
27.	Sri Y.N. College, Narsapur, Westgodavari	13	
28.	DVR & Dr. HS MIC College of Technology, Kanchikacharla		
29.	Krishna University	05	
30.	Degree College, Antarvedigudem	01	
31.	GDC Peramullapuram	01	
32.	Sri Venkateswara University, Tirupathi	06	
33.	GITAM University, Vizag	10	
34.	RSR Engineering College	01	
35.	MVS Govt. Arts & Science Degree College (A), Mahububanagar	01	
36.	JNTU Hyderabad	01	
37.	Avanthi institute of engineering and Technology, bhogapuram,	01	
	Vizianagram		
38.	RGUKT-VALLEY	03	
39.	Sri Venkateswara University, Tirupathi	04	
40.	KRU Dr. MR Apparow College of PG Studies, Nuzvid		
41.	Sri DNR GDC (W), Palakol		
42.	Madanapalle Institute of Technology and Science, Madanapalle		
43.	Sasi Institute of technology and engineering, Tadepalligudem		
44.	St. Joseph's College for Women (A)	01	

S.No	Responses	No. of Responses
1.	Students	436
2.	Scholars	5
3.	Faculty	82

S.No	Stream of Study	No. of Responses
1.	B.A.	41
2.	B.Com.	21
3.	B.Sc.	387
4.	Others	74

#### **Conclusion:**

The National Webinar on Mathematics proved to be a resounding success, providing participants with a deeper appreciation and understanding of mathematical structures in nature. Through insightful presentations by esteemed resource persons and active participation from attendees, the webinar fostered a spirit of exploration and discovery in the realm of mathematics. As the event concluded, participants left with newfound knowledge, inspired to further explore the beauty and complexity of mathematical structures in nature.



#### Acknowledgments:

The organizers extend their heartfelt gratitude to the resource persons, Professor S. Durga Bhavani madam and Professor R. Radha madam, for their invaluable contributions to the webinar. Special thanks to Dr. CH. Badari Narayana sir for coordinating the program and ensuring its smooth execution. The unwavering support of Dr. N. Prasad Babu sir, the Principal of the CSTS Government Degree kalasala, Jangareddigudem is also acknowledged with gratitude.

The success of the webinar would not have been possible without the active participation and enthusiasm of the attendees. The organizers express their sincere appreciation to all participants for their engagement and contribution to the event's success.



At the conclusion of the National Webinar in Mathematics, participant certificates were distributed to attendees who actively engaged with the event by submitting their feedback analysis. This initiative not only recognized the contributions of participants but also encouraged them to provide valuable insights, fostering a collaborative learning environment within the mathematics community. The Questions asked in the feedback link are analyzed as follows.

Program was well planned within the time slot 127 responses Yes 🛑 No Did the Webinar met your expectations? 127 responses Yes 🕨 No 96.1% **Resource Persons Communicated properly?** 127 responses Yes No 🛛 98.4%



#### How would you rate the conference on 5 scale rating? 127 responses



Overall Feedback about the Conference 127 responses



### VIDEO LINKS

#### Video 1

https://drive.google.com/file/d/1OjZHE2G1wDjR828c1RjhXLpVNGEgObT-/view?usp=drive\_link

#### Video 2

https://drive.google.com/file/d/17y\_03t1khd9Q-oaSP-bnYVOm7BoIeI9/view?usp=drive\_link

#### Video 3

https://drive.google.com/file/d/1AR\_6r7\_TsQZFYwRl4DmUccJogicSVdii/view?usp=dri ve\_link

#### Video 4

https://drive.google.com/file/d/113G\_F7Mctc2cRnKKqtvcAK83ACKPRdZ/view?usp=drive\_link

#### Video 5

https://drive.google.com/file/d/1hj-soIH7Oo3NUTaskEE-mk3yY49MZta/view?usp=drive\_link

#### Video 6

https://drive.google.com/file/d/1OhraQFEv5pkEToLh6-U8iogUVRz53baA/view?usp=drive\_link



# CSTS GOVT. KALASALA

Jangareddigudem, Eluru District, AP. (Affiliated to Adikavi Nannaya University)

PARTICIPATION CERTIFICATE



This is to certify that Dr. RUDRA RAVI KUMAR PALEGARI From RGUKT-R.K. VALLEY has Participated in the National Webinar on "Exploring the Beauty and Complexity of Mathematical Structures in Nature" organized by the Department of Mathematics held on 07<sup>th</sup> March 2024.



Convener



Principal



# CSTS GOVT. KALASALA

Jangareddigudem, Eluru District, AP. (Affiliated to Adikavi Nannaya University)

PARTICIPATION CERTIFICATE



This is to certify that Mr./Mrs./Ms./Dr. K Likhitha From SDMSMK VIJAYAWADA has Participated in the National Webinar on "Exploring the Beauty and Complexity of Mathematical Structures in Nature" organized by the Department of Mathematics held on 07<sup>th</sup> March 2024.



(Damo

Principal

NATIONAL WEBINA	IR ON 'Exploring the
Beauty and Complexity	of Mathe matical
Structures in Nature	11
DATE: 07.03.2024	Resource persons
TIME: IDAM TO IPM	() prof. S. Dunga Bhavani
No. of Students Attended:	HCU, HYDERABAD

Clina, Name of the student	Group signature of the student
1. P. Supraia	Ind Brombi) P Suprage
B. P. Uijaya lakstoni	I nd B. Com(G) P. Jijaya Lakstini
3. Gr. Sweety hiranman	IP B. Com (G) Gr. Sweety
4. K. Sonija	Ind B. (on (oi) K. Sorija
5. V. porasanthi	Ind B. con (ci) v. porasanthi
6. m. Gowtham.	Ind Bicom (CA) m. Gowthami
7. G. Angali	Il B.con[CA] G.Anjali
S. Ch. naveen	y y y Ch. naveen.
9. T. Devessentral	" " " T. Devasankan
10 w. May kunder	" " " Marjouy
11) M. surendra	11 11 11 M. Rotender.
12) K. AJay	in in kafang

Other Mathematics

Seminar Hall (ICT) Frichange Principala CSRSNGoVRAKblasain Jangareddigudem-534447 Eluru Dist.,A.P

Signature. Name of the student class .10. I B. Sc [Botany] K. Diyasas K. Bivya sai 1. 11 GilenkataDurge 6. Venkata Durge г. 3. R. Dhana laxm: R. Dharalaxm! I: mamatha ч. I-Manathe 5. k. Mahima santhi K.nahima santhi F. Reechika I BSC (compulsés) - 12- Reechila 6 7 V. Renerka Naga Durgo V. Remk 8. P-Tulasi lakshmi P. tulasi lakohmi Ch Sai Chandrika ch sai chardolika 10. -K. prasanna 107 K prasanna 5. Dugabhavan; I B-Sc [1201-any] S. Durgaphenvani ch.vijayanirmala 12. ch. vijayani smala U K. Ramatulasi 13. K. Romatulazi U k. Dwigamma 14 K. Dwigamma. 11 J. Dwigankitha 11 J- Dwgankitha. IS. T. Sravanthi 11 16. T. Sravanthi. k. AEhila 17. K. Aklila u 18. M. swartepa M. sharupa 11 E. Athinaya 19, LB. Sc [computers] cAthineux

Name of the student Class . signature s into G. Abhisam I st B. SC (computers) G. Abhizam. 20. 21, K. Ramult 1<sup>st</sup> B.sc (computers) K. Roma P. Balaji 22. I'T Rise (Betany) P. Balayi 23. M.charan. 11 M. Charan. 94. S. chiranseev? Jo B.Se (Borarry) E. Chinarjeen; 85. T. Shiva Krishna " " T. Shiva Drishm 26s. Mahesh 11 1. S-Mahesh. -λA. K. Visay n argent water reading Ko VIJay 28. n a torred K. Sei Ren K. Soi Lam 29 J. Narasimha "nuclination I T. Marasimho I BSC (Botany) E. Pavan " " " M. Pavan Kishore E. Pavan M. povan ki shore 30 31 ic n H B. aloresh NUU B. Noresh 32. 33 2 BSC computery V. Konshik V. Konshi k 34, P. Sandap Let BSC comparters P. Souched Grand St. St. St. St. outer for a for the J. Margaret Warner T. d 1 Sicrony, en part dans for the second assault for the state 

Nome of the student Janlo K. madhelatha 2. -E. Meghana ð.m. Kavya 4. S. Sowjanya S. S. Vaughman K. Saeller 6. 7. SK. Basheeva 8. K. Anitha T. Divya ٩. K. Srivallika 10 P. Rama lukshmi 11-Q. ch. Rama lakshmi 13 -S-sonia K. Anusha 田 m. Lavanya 18, 19. k madhavi 80, S. Malloepsinon 21. ch. pugitta

group Signadure L' madhultati 1st B.com I B.OM E. Meghana Ist B. Com(cA) m. Kavya Det B. com S. Soutanya. I<sup>st</sup>B.com (CA) S. Vaufuni ISt B. Com +- Salles ISt B. COM sk, Basheeva Ist B. Com K. Anitha. ISt B.Com T. Divya. IST B. Com k. Srivallika Ist G. com P-Rama lakshni Ist B.com. ch. Rama laf-shmi I St B.Com ZSt B.Com S. Soria. K. Anusha Ist B.com m. Jovanya. ISt B.com K. Madhavi IN- B. COM Maeleghuer Ist B.Com. puy insa-

	student
(,	Mr. Scenyn provlamily Roading
·2)	A. Gowthom Rotu
c)	V. Jithu
ન)	G. Sarath Kieviciy
5)	K-Harish
4 (c)	A. AKhil
$\left(\frac{7}{7}\right)$	R.D. K-take
8.	B. Sowpath
9.	U. Ry Eumar
10.	M. Rogu
11.	M. Ramash
12,	M. Latshmanakin
13.	FH. grayyachaji
14.	Or. Man Ven

group Signature Jat Brown M-S.P. Ledly Ist B. Com A. Gowthans v. Tithu IA B. Com 6. Sarath TAB. COM at B.com. K, -Harolish 1st B. com. A. AKKil Att Bilin · f. m B. Sampand IST B. Com 1). Eg bunnar I<sup>st</sup>B. Com M. Raju. 2st Brown Ner. Ramesh 7. R. Com M. Lakshmanakey P. B. Lory 7# B.com pri gayyabaji

ZAB-Con

Gollan Ving;

### CHATRAPATHI SIVAJI TRI SATAJAYANTHI (CSTS) GOVERNMENT KALASALA, JANGAREDDIGUDEM, ELURU DIST., A.P.



### **DEPARTMENT OF MATHEMATICS**

ENLIGHTENING LECTURE ON DIFFERENTIAL EQUATIONS: BRIDGING ACADEMIA AND INDUSTRY on 10-10-2023

04.10.2023 Jangareddigudem.

From Dr.CH.Badari Narayana Department of Mathematics CSTS Govt. Kalasala, Jangareddigudem.

#### То

The principal

CSTS Govt. Kalasala, Jangareddigudem.

\*\*\* \*\*\* \*\*\*

Sir,

Sub: Permission to organise a Guest Lecture on Differential Equations - reg-reg.

The Department of Mathematics is pleased to announce a Guest Lecture on "Applications of Differential Equations in the Field of Research and Industry" on October 10, 2023. We kindly request your permission to proceed with organizing this event.

Thanking you.

Yours faithfully,

CHe & Nony

Permitted

Principal CSTS Govt. Kalasala Jangaraddigudem-534447 Eluru Dist.,A.P



### CHATRAPATHI SIVAJI TRI SATA JAYANTHI (CSTS) GOVT. KALASALA,

Enter to learn -Learn to Serve Jangareddigudem, Eluru Dist. Phone: 08821-225310, Visit us at: <u>www.cstsgk.ac.in</u> E-mail: <u>jangareddigudem.manatv@gmail.com</u>

#### Ref No: 2023-24/MATHEMATICS/GL/01

Dated: 07-10-2023

From The Principal CSTS Government Kalasala Jangareddigudem Eluru Dt. To The Principal Sri Venkateswara College, University of Delhi, New Delhi.

#### Sir/Madam,

**Sub:-** Dr. P. Devaki Assistant Professor, Department of Mathematics, Sri Venkateswara College, University of Delhi, New Delhi-Request for Guest Lecture on Differential equations-Regarding.

As a part of NAAC activities, we are conducting various curricular and co-curricular activities in our college. In this regard we cordially invite Dr. P. Devaki, Assistant Professor, Department of Mathematics, Sri Venkateswara College, University of Delhi, New Delhi to deliver a Guest Lecture on "Applications of Differential Equations in the field of research and industry" on 10/10/2023 at 12.00 noon in online mode.

Thanking you.

ours faithfully STS Govt. Kalasala

Jangareddigudem-534447 Eluru Dist.,A.P



#### **MEETING**

Departmental meeting was held on 04-10-2023 at 4PM in the Department of Mathematics under the chairmanship of Dr. N. Prasad Babu, Principal of this college. And the following issues has been resolved.

- It is decided that to conduct National Level Online Workshop.
- It is also decided that to conduct Bridge course to the 23nd batch I year Students.
- It is also decided to conduct an Online Virtual mode Guest Lecture to enrich the knowledge of students.

The following members are present and signed.

- 1. Dr. CH. Badari Narayana, Lecturer in Mathematics,
- 2. Dr. M. Madhu, Lecturer in Chemistry,

Dr. K. Uttam Sagar, Lecturer in Commerce. 3.

Principal PRSINS Govt. Kalasala Jangareddigudem-534447 Eluru Dist.,A.P

clk

P.Icd 4

K:Uttam-gre

#### NOTICE

#### Dt: 07.10.2023

In accordance with the new innovations and recent trends in academic excellence, the Department of Mathematics is delighted to announce an upcoming online virtual guest lecture. The lecture will focus on the topic of "Applications of Differential Equations in the field of Research & Industry." This event is scheduled to take place on 10th October 2023 at the Virtual Classroom, commencing from 12:00 PM and concluding at 01:30 PM. We are pleased to inform you that this lecture is being organized in collaboration with other science departments.

We extend a cordial invitation to all Science students to participate in this enlightening program. Your active participation will undoubtedly contribute to making it a grand success.

**I B.SC(COMPUTER SCIENCE)** 

II B.SC(MPC)

III B.SC(MPC)

Central Clar

F

ch

**II B.SC(MPCS)** 

III B.SC(MPCS)

#### Enlightening Lecture on Differential Equations: Bridging Academia and Industry

On the memorable date of October 10, 2023, the distinguished Department of Mathematics at Chhatrapati Shivaji Tri Satajayanti Government Degree College, situated in the vibrant locale of Jangareddigudem, hosted an enlightening and engaging guest lecture. Dr.P.Devaki, a highly regarded Assistant Professor hailing from the prestigious Sri Venkateswara College, affiliated with Delhi University in the heart of New Delhi, took the helm as she delivered an enthralling lecture on the "Practical Applications of Differential Equations in the realms of Research and Industry." This remarkable lecture was presided over by none other than our esteemed College Principal, Dr. N. Prasad Babu.



During the course of this intellectually stimulating lecture, students were not merely presented with information, but they were immersed in a profound and comprehensive understanding of the "Utility of Differential Equations in the domains of Physics and Chemistry" within the dynamic and ever-evolving landscapes of research and industry. Dr. CH. Badari Narayana, a luminary in his own right and the Head of the Department of Mathematics, eloquently underscored the paramount importance of comprehending the "Real-World Applications of Differential Equations" for aspiring science scholars. His exuberance and passion shone brightly as he graciously delivered this illuminating lecture on Internet policy.



### **Momentum Equation**

### **Newtonian Fluid: Navier-Stokes Equations**

$$\rho\left(\frac{\partial u}{\partial t} + u\frac{\partial u}{\partial x} + v\frac{\partial u}{\partial y} + w\frac{\partial u}{\partial z}\right) = \rho g_x - \frac{\partial p}{\partial x} + \mu\left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2}\right)$$
$$\rho\left(\frac{\partial v}{\partial t} + u\frac{\partial v}{\partial x} + v\frac{\partial v}{\partial y} + w\frac{\partial v}{\partial z}\right) = \rho g_y - \frac{\partial p}{\partial y} + \mu\left(\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} + \frac{\partial^2 v}{\partial z^2}\right)$$
$$\rho\left(\frac{\partial w}{\partial t} + u\frac{\partial w}{\partial x} + v\frac{\partial w}{\partial y} + w\frac{\partial w}{\partial z}\right) = \rho g_z - \frac{\partial p}{\partial z} + \mu\left(\frac{\partial^2 w}{\partial x^2} + \frac{\partial^2 w}{\partial y^2} + \frac{\partial^2 w}{\partial z^2}\right)$$

The event itself bore witness to an assembly of scholarly minds, including the erudite College Vice Principal, B. Srinivasa Rao, the meticulous IQAC Coordinator, Dr. M. Madhu, the distinguished Dr. K. Uttam, the insightful Va Sagar, and the illustrious J. Raja Srikanth. Moreover, the audience was comprised not only of the academic elite but also of the

enthusiastic and inquisitive student body, truly making this occasion a vibrant tapestry of intellectual exchange and inspiration.

#### Paper Clip:

2

# స్థానిక ప్రభుత్వ డిగ్రీ కళాశాల నందు నేడు గణిత శాస్త్ర విభాగంలో అతిధి ఉపన్యాసం

జంగారెడ్డిగూడెం, (తెలుగు వార్త న్యూస్) : మంగళవారం స్థానిక చత్రపతి శివాజీ త్రి శతజయంతి ప్రభుత్వ డిగ్రీ కళాశాల నందు కళాశాల (పిన్సిపల్ క దాక్టర్ ఎన్. ప్రసాద్ బాబు అధ్యక్షతన గణిత శాస్త్ర ; విభాగంలో డాక్టర్ పి. దేవకి (శీ వెంకటేశ్వర కళాశాల r అసిస్టెంట్ ప్రొఫెసర్ చే అతిధి ఉపన్యాసం ఇప్పించడం r జరిగింది. ఈ ఉపన్యాసంలో భౌతిక మరియు రసాయన శాగ్ర్తాలలో అవకలన సమీకరణాల పమవర్తనాలు అనే అంశాన్ని గురించి క్రుణ్తంగా స

విద్యార్థులకు విసదీకరించినారు. ఈ కార్యక్రమాన్ని ఉద్దేశించి గణిత శాస్త్ర విభాగ అధిపతి దాక్టర్ సి. హెచ్. క బదరి నారాయణ మాట్లాడుతూ సైన్స్ విద్యార్థులకు అవకలన సమీకరణాలు అనువర్తనాలు చాలా 7 ముఖ్యమైన అంశం అని ఈ అంశాన్ని గురించి ఎంతో అనుభవం గల అధ్యాపకు రాలు దాక్టర్ పి దేవకి గారిచే అంతర్మాల విధానంలో లెక్చర్ ఇప్పించడం చాలా ఆనందంగా ఉందన్నారు. ఈ కార్యక్రమంలో కళాశాల వైస్ (పిన్సిపల్ బి. (శీనివాసరావు ఐ క్యూ ఏ సి కోఆర్డినేటర్ దాక్టర్ ఎమ్ మధు దాక్టర్ కే ఉత్తమ్ సాగర్ జె రాజా (శీకాంత్ ఇతర అధ్యాపక అధ్యాపకేతర సిబ్బంది విద్యార్థులు పాల్గొన్నారు.

G



జంగారెడ్డిగూడెం అక్టోబర్ 10 (గోదావరి విలేఖరి) స్థానిక చత్రపతి శివాజీ త్రి శతజయంతి ప్రభుత్వ డిగ్రీ కళాశాల నందు కళాశాల టిన్నిపల్ దాక్టర్ ఎన్. ప్రసాద్ బాబు అధ్యక్షతన గణిత శాస్త్ర విభాగంలో డాక్టర్ పి. దేవకి (శీ వెంకటేశ్వర్ కళాశాల అస్టాంట్ ప్రొఫెసర్స్ అతిధి ఉపన్యాసం ఇప్పించడం జరిగింది. ఈ ఉపన్యాసంలో భౌతిక మరియు రసాయన శాస్త్రాలలో అవకలన సమీకరణాల అనువర్తనాలు అనే అంశాన్ని గురించి క్షుణ్ణంగా విద్యార్థులకు విసదీకరించినారు. ఈ కార్యక్రమాన్ని ఉద్దేశించి గణిత శాస్త్ర విభాగ అధిపతి డాక్టర్ సి.హెచ్. బదరి నారాయణ మాట్లాడుతూ సైన్స్ విద్యార్థులకు అవకలన సమీకరణాలు అనువర్తనాలు చాలా ముఖ్యమైన అంశం అని ఈ అంశాన్ని గురించి ఎంతో అనుభవం గల అధ్యాపకు రాలు డాక్టర్ పి దేవకి చే అంతర్మాల విధానంలో లెక్చర్ ఇప్పించడం చాలా ఆనందంగా ఉందన్నారు. ఈ కార్యక్రమంలో కళాశాల వైస్ ట్రిన్సిపల్ బి. (శీనివాసరావు ఐ క్యూ ఏ సి కోఆర్డినేటర్ డాక్టర్ ఎమ్ మధు డాక్టర్ కే ఉత్తమ్ సాగర్ జె రాజా (శీకాంత్ ఇతర అధ్యాపక అధ్యాపకేతర సిబ్బంది విద్యార్థులు పాల్గొన్నారు.



# CSTS GOVT. KALASALA, JANGAREDDIGUDEM

### DEPARTMENT OF MATHEMATICS



### **ICT/PPT REGISTER FOR 2023-24**

RESOURCE PERSON: Dr. P. DEVAKI NAME OF THE TOPIC: APPLICATIONS OF DE

DATE: 10.10.2023

VENUE: COMPUTER LAB

NUMBER OF STUDENTS ATTENDED: 38

S.NO	NAME OF THE STUDENT	REGISTER NUMBER	SICNATURE OF THE STUDEST	DEMARKS
1	K.P.L. PRASANINIA		SIGNATORE OF THE STODENT	RL/IARAS
2	E. ABHINAYA		K.p.L. Masenna	
3	D.TULASI LAKSHMI		P. Stehlunge	
4	CHICHINNI SALCHANDOLKO		P Tulazi lakerni	
5	K. REECHIKA		Chichioni sai Clantilla	
6	A. SPTIAKSHMT		K. KPerbiko.	
7	R NIAGA BHAVANI	2) 33 (71A1M7	on sor laksning	
8	M. Neclima	2222 (710 2016	K. Maga Bhavant	
9	K.Venkata lakshmi	99226716 2014	KIP WITH 2	
10	R. Srcivane	212267102011	RECKINION.	
11	E. Snoha	222367102012	E-Sacha	
12	M theshoas To	2233621010011	M Krishna 5-8	
13	m. Provolika	222367101000	m. May Joka	
14	D. Naga Manaa	223367161001	D. NOS MORDO	
15	M-Amala	923-67101002	M.Acarla	-
16	S MAHALAKSHMT	213367101012	(2. M. 1)22-	
17	M. LAKSHMI DEVI	213367101011	m. the	
18	P. ANUCHA	213367101002	A-Anula.	
19	M. ADYIDI	213367101010.	n. Annli	
20	K. SWATHI	212367102021	K. Swathi	
21	T. KAUERT	213367162032	T. KAUERT	
22	M. Ramya	21 33 67 10 2025	M. Konya	
23	K. TAVA MADHURI	213367162022	K. Feyl Capelos	
24	A. NAVYA	213367101001	A. Navie	
25	B. Provom Kau	213367102019	(B. Peulonke)	
26	K. BAMU		F. Pomil	
27	G-ABHIRAN		G-HDDI XOM	
28	D. Muther	21336/102023.	- GI BURNAST	
29	P. SAI	213367102021	REVIE	
30	B. RAULTEJA	213367101004	a guilt	
31	ch. Sunil	213367101000	- Charles	
32	C. Madhin	22336111111	CT & CODY	
33	T.BOBBY	213367101014	Galfurit	
34	G. Vokatapatho	213367102020	ch Oxfu	
35	CHIKISHNE	81336 TIDIDUB	Nump	
36	N. VAMSI	22336+10201	Billouin	
37	B. Brasannakimor	2133 6710100-	-H-	
38	P. Vighes, rimited	923361101000		
39	Jucstan			
40				

~ Gri hatt

SIGNATURE OF ICT INCHARGE

that Jon Inciper 10 SIGNATURE OF RESOURCE PERSON

CSTS Govt. Kalasala Jangareddigudem-534447 Eluru Dist.,A.P