

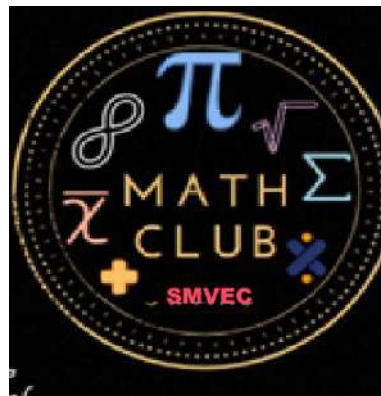


# DEPARTMENT OF MATHEMATICS

## MATHEMATICS CLUB

## ANNUAL REPORT

(Academic Year: 2024 to 2025)



Submitted by

Mrs S P LAVANYA  
Assistant Professor  
Faculty Coordinator

Mrs M SUGASINI  
Assistant Professor  
Faculty Coordinator

Mr R VIJAYAKUMAR  
Assistant Professor  
Faculty Coordinator



## Preface

The Mathematics Club of the Department of Mathematics, Sri Manakula Vinayagar Engineering College, serves as an enriching platform to promote analytical thinking, logical reasoning, and mathematical creativity among students. The club is established with the objective of strengthening the connection between theoretical concepts and real-world applications across various domains of mathematics and allied engineering disciplines.

The club actively encourages students to explore mathematical ideas through problem-solving sessions, workshops, seminars, quizzes, model-based learning, guest lectures, and interdisciplinary activities. These initiatives aim to enhance critical thinking, reasoning ability, and quantitative skills essential for academic excellence and professional success.

The effective functioning of the club is supported by a dedicated team of office bearers, including the President, Vice President, Treasurer, and Technical Coordinator, who work collaboratively with enthusiastic members to plan, organize, and implement academic and co-curricular activities. Their leadership ensures the smooth execution of the club's objectives and programs.

Through continuous learning, innovation, and application-oriented activities, the Mathematics Club strives to develop mathematically proficient, logically sound, and professionally competent graduates. The club remains committed to contributing to the overall academic growth and intellectual development of the institution.

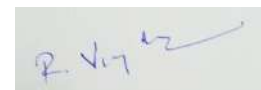
Faculty Coordinator



Mrs S P LAVANYA



Mrs M SUGASINI




Mr R VIJAYAKUMAR



Chair Person  
HoD/Mathematics  
Mrs. B. Kavitha



IQAC Coordinator  
Dr. Arivalagar A A



Director Cum Principal  
Dr. V.S.K. Venkatachalapathy

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## ABOUT THE INSTITUTE

Sri Manakula Vinayaga Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programs in engineering. SMVEC has been accredited by NAAC with “A” grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

### Vision

- To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

### Mission

**M1: Quality Education** : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

**M2: Research and Innovation** : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

**M3: Employability and Entrepreneurship** : To inculcate the employability and entrepreneurial skills through value and skill based training.

**M4: Ethical Values** : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



## ABOUT THE DEPARTMENT

The Department of Mathematics at Sri Manakula Vinayagar Engineering College plays a key role in providing a strong mathematical foundation to students of all engineering disciplines. The department focuses on developing analytical thinking, logical reasoning, and problem-solving skills essential for engineering education and professional practice.

The department is supported by qualified and experienced faculty who adopt effective teaching methodologies, application-oriented learning, and technology-enabled instruction. Through academic activities, mentoring, and continuous improvement practices, the Department of Mathematics contributes significantly to the overall academic excellence and professional development of students.

### Vision

To explore value based Mathematical Education through innovative and flexible curriculum to decipher and adapt in multidisciplinary academic and research environments and the society at large.

### Mission

- To evolve students logical thinking, analytical reasoning and problem-solving skills.
- To nurture the value of overhauling the community
- To educate and train skillfully as resourceful mathematicians.



## ABOUT MATHEMATICS CLUB

The Mathematics Club of the Department of Mathematics at Sri Manakula Vinayagar Engineering College provides a vibrant platform to promote interest in mathematics and enhance analytical and logical thinking among students. The club aims to bridge the gap between theoretical concepts and real-life applications by encouraging problem-solving, critical thinking, and mathematical reasoning.

### Objectives of Mathematics Club

The primary goal of Mathematics club are as follows:

- To promote interest and appreciation for mathematics among students
- To strengthen logical thinking and problem-solving skills
- To connect mathematical concepts with real-world and engineering applications
- To encourage participation in mathematical competitions, quizzes, and activities
- To support collaborative learning and peer interaction
- To nurture analytical, quantitative, and reasoning abilities for academic and professional growth



**OFFICE BEARERS**

The Mathematics Club is guided by a committed team of office bearers who play a key role in promoting analytical thinking and academic excellence. The team typically comprises a President, Vice President, Secretary, Treasurer, and Technical Coordinator, each contributing effectively to the planning and execution of club activities. These office bearers organize mathematical quizzes, problem-solving sessions, workshops, seminars, and interdisciplinary events, while also supporting peer learning and mentoring. Their leadership ensures the smooth functioning of the club and fosters a collaborative learning environment that encourages logical reasoning, creativity, and critical thinking. Through their collective efforts, the Mathematics Club continues to serve as a vibrant platform for intellectual growth and mathematical enrichment.



Mrs B. Kavitha  
Chair Person



Mrs. M. Sugasini  
Math Club Co-ordinator



Mrs. S P Lavanya  
Math Club Co-ordinator



Mr R. Vijakumar  
Math Club Co-ordinator



Sudharsanam P  
IT – II A  
President



SakthiPriya K  
ECE – II A  
Vice Presedent



Shriram S  
IT – II C  
Secretary

**Students Members of the Club:**

S.No.	Name	Dept& Sec
1	SakthiPriya.K	ECE & A
2	Manisha.K	
3	Jagannath	ECE & B
4	Leethica	
5	NandikaVardini	ECE & D
6	Kowsalya	
7	Herwin.W	EEE & A
8	Aswitha.R	
9	Hemachandasanam.S	EEE & B
10	Keerthana.G.M	
11	Joushya	CSE & A
12	Santhosh	
13	Soundarya.P	CSE & B
14	Gnaneswaran.JS	
15	FazilAhamed	CSE & C
16	Janani	
17	Sudharsanam.P	IT& A
18	Sennila.S	
19	Pavan.K	IT & B
20	Nishanth.G	
21	Shriram.S	IT & C
22	Saathvic.S	
23	Sooriya.K	CIVIL
24	Sridharshini.T	
25	Harish.R	ICE
26	Hariprabu. U	
27	Kandhavel	Mechanical
28	A. Abdul Halith	
29	Abarajitha.S	BME
30	Chandrasekaran	
31	Poonguzhali.S	CCE
32	Sanjai.M	
33	Abilash.G	Mechatronics
34	Kailasanathan	
35	Manda Ramya Sri	AI & DS & A
36	Shalini.M	
37	Aparna.R	AI & DS & B
38	Nithishvaran.S	
39	Dhineshwar.R.S	CSBS
40	Kaviyah.V	

**LIST OF EVENTS**

<b>S. No</b>	<b>Title of the Events</b>
01	NATIONAL MATHEMATICS DAY
02	PIE - DAY
03	QUIZ PROGRAM ON PROBABILITY THEORY
04	GUEST LECTURE ON STATISTICS FOR ENGINEERS
05	GUEST LECTURE- MATHEMATICS IN ARTIFICIAL INTELLIGENCE

### About the Mathematics club:

The Mathematics Club serves as a vibrant platform for students to explore and appreciate the beauty and importance of mathematics beyond the regular curriculum. It encourages logical reasoning, analytical thinking, and problem-solving skills through a variety of academic and co-curricular activities. By engaging students in quizzes, puzzles, discussions, and interactive sessions, the club helps to develop a positive attitude towards mathematics and enhances conceptual understanding.

The club also aims to create awareness of the applications of mathematics in science, engineering, technology, and everyday life. It provides opportunities for collaborative learning, peer interaction, and talent development, thereby fostering creativity and confidence among students. Through its activities, the Mathematics Club nurtures curiosity, critical thinking, and a strong foundation in mathematical knowledge.

### Objectives:

- Providing opportunities for members to develop practical mathematical skills such as problem-solving, logical reasoning, analytical thinking, and data interpretation through activities and discussions.
- Encouraging and supporting mathematical exploration and problem-based learning among members by providing a platform to solve, present, and discuss mathematical ideas and applications.
- Ensuring the fostering of collaboration among students interested in various branches of mathematics and related disciplines, promoting interdisciplinary approaches to problem-solving.
- Offering guidance and resources for members interested in pursuing higher studies or careers involving mathematics, including competitive exams, research opportunities, and academic mentoring.
- Providing opportunities for members to take up leadership roles within the club by organizing events, conducting activities, and coordinating mathematical competitions and workshops.
- Promoting discussions on the ethical use of mathematics in science, technology, data analysis, and decision-making, encouraging responsible and meaningful application of mathematical knowledge.

**NATIONAL MATHEMATICS DAY**

**SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/1**

This is to inform that the **Mathematics Club** has planned to conduct **Mathematical Skill Test** for the first-year students on 07.12.2024 (Saturday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	Math club	07.12.2024	Dr.K.Raja Mrs. M. Sugasini Mr.K.Gurusamy	119	To motivate the students to get good knowledge mathematics through the Club activities like Mathematical Analytical test

Total Number of Participants : 119  
 Year of students: I  
 Date: 07/12/2024  
 Venue : IT Seminar Hall  
 Mode of Activity: Offline  
 Event Coordinator: Dr. K. Raja, M. Sugasini, K. Gurusamy



**Coordinator**  
(M.Sugasini)



**Chair Person**  
(Mrs.B.Kavitha)



**Dean Academics**  
(Dr.S.Anbumalar)



**Director cum Principal**  
Dr.V.S.K.Venkatachalapathy)

**Names of the Participants:**

<b>S.No</b>	<b>Name</b>	<b>Year</b>	<b>Department</b>
1	SHARANI V	I	AI&DS
2	KARTHIGA S	I	AI&DS
3	GANGESH SURYAA A	I	AI&DS
4	SYED SHAMEER S	I	AI&DS
5	SUJITHA A	I	AI&DS
6	SABARISH S	I	AI&DS
7	SRIMAAN S	I	AI&DS
8	ROGITH B	I	AI&DS
9	SANDHIYAA E	I	AI&DS
10	HEMACHANDRAN T	I	AI&DS
11	VIDYA M	I	AI&DS
12	SURENDAR K	I	AI&DS
13	CHANDRU E	I	AI&DS
14	PARKAVI J	I	AI&DS
15	SURYA PRABA	I	AI&DS
16	SAGAYARAJ A	I	AI&DS
17	GIRISH KUMAR S	I	AI&DS

18	YUVASRI P	I	AI&DS
19	DHARSHINI B	I	AI&DS
20	MOHAMMED RIFAS M	I	AI&DS
21	SHIVAKAILASH D	I	AI&DS
22	MOHANAKUMAR K	I	AI&DS
23	SAKTHI NARAYANA RAO S	I	AI&DS
24	RAMANAN A	I	AI&DS
25	SURENDHAR R	I	AI&DS
26	JAGAN S	I	AI&DS
27	YUVARAJ S	I	AI&DS
28	GIRIDHARAN B	I	AI&DS
29	KAMALESHWARAN R	I	AI&DS
30	KAVIYALAKSHMI M	I	AIDS
31	SABARIRAGAVENDHARA R	I	AIDS
32	AJAY D	I	CIVIL
33	SARANKUMAR.R	I	CIVIL
34	MUTHU SELVA ESAKKI J	I	CIVIL
35	SAYEDABUTHAGER M	I	CIVIL
36	MOHAMED MASOODH Y	I	CSE
37	ASWIN K	I	CSE
38	SIVASANKAR S	I	CSE

39	ARJUNAN A	I	CSE
40	SANKAVI I	I	CSE
41	SREE SANTH M	I	CSE
42	ANANDTH ATHREYA R	I	CSE
43	LOGESH P	I	CSE
44	MUKILAN M	I	CSE
45	VIDHYASRI S	I	CSE
46	SUNDARAVALLY M	I	CSE
47	DEV SANGIRUT V	I	CSE
48	SURYA K	I	CSE
49	KANIHA T	I	CSE
50	BAVADHARANI. M	I	CSE
51	SACHIN KUMAR	I	CSE
52	DHARSHINI S	I	CSE
53	SHAMEERA S	I	CSE
54	KRITHI PRABHA. VN	I	CSE
55	DEVADHARSHINI B	I	CSE
56	RAJASHREE G N	I	CSE
57	SANTHIYA M	I	CSE
58	SINTHUJA A	I	CSE
59	DILIPKUMAR M	I	CSE

60	ABISHEK ARUMUGAM S	I	CSE
61	MRIDULASRI J	I	CSE
62	SRIHARINI K	I	CSE
63	SRIVIDYA D	I	CSE
64	VETRISELVAN N	I	CSE
65	BALAJI R	I	CSE
66	HARIHARAN M	I	CSE
67	KAYALVIZHI G	I	CSE
68	JEEVANRAJ M	I	CSE
69	TALIMSIJESH	I	CSE
70	THARUN N	I	CSE
71	RAVIKIRAN M	I	ECE
72	RAVIKIRAN M	I	ECE
73	RAVIKIRAN M	I	ECE
74	LOTHIKA.C	I	ECE
75	SANTHANA KIRUSHNAN K	I	ECE
76	SRIRAM S	I	ECE
77	VENKATESAN L	I	ECE
78	VARSHAN M	I	ECE
79	JOTHIRAMAN K	I	ECE
80	AKASH M	I	ECE

81	BARATHSELVAN.S	I	ECE
82	CHEZHIEEN K	I	ECE
83	PRAKASHRAJ R	I	ECE
84	JIDHENTHRAA V	I	ECE
85	SARVESHWARAN K	I	ECE
86	VAASUDAVAN R	I	ECE
87	GIRIDHARAN M	I	ECE
88	AAKASH.I	I	ECE
89	SANJAI K	I	ECE
90	DILIP KUMAR K	I	ECE
91	RAHUL S	I	ECE
92	ABHISHEK V	I	ECE
93	LINGABARANEESWARAN V	I	ECE
94	ABHINAV R	I	ECE
95	HEMAVARTHINI S	I	ECE
96	MOULESHWAR M	I	ECE
97	BHUVANESHWARAN S	I	ECE
98	KARTHIKA S	I	EEE
99	JAYAVARSHINI J	I	EEE
100	SANTHI V	I	EEE
101	SHIVANI PRIYAL.M	I	EEE

102	GOKULADHARSHINI L	I	EEE
103	SATHYANARAYANAN V	I	EEE
104	VIJAYAN K	I	EEE
105	RAVIVARMA A	I	EEE
106	KAPPIASELVAN I	I	EEE
107	SEDHUPATHY D	I	ICE
108	NIDHIN S	I	IT
109	RUBA S	I	IT
110	RUBI S	I	IT
111	KAMAL HASAN V	I	IT
112	RITHIKKA M	I	MCTRA
113	PRAVEEN S	I	MCTRA
114	SIVAKOZHUNDHU N	I	MECHANICAL
115	K.YUVARAJ	I	MECHANICAL
116	ARULGANESH S	I	MECHATRONICS
117	YESHWANT N	I	MECHATRONICS
118	ABILASH	I	MECHATRONICS
119	BARATH R	I	MECHATRONICS



## QUESTION PAPER

## Silver Jubilee Celebrations

Department of Mathematics

Common to All Branches

National Mathematics Day

Mathematical Skill Test, December 2024

Day and Date: 07.12.2024

Max.Mark: 25

Time: 2.00 pm to 4.00 pm

1. If  $A$  is any square matrix, then which of the following is skew-symmetric?

- (a)  $A + A^T$       (b)  $A - A^T$       (c)  $AA^T$       (d)  $A^T A$

2. Consider the system of simultaneous equations

$$x + 2y + z = 6$$

$$2x + y + 2z = 6$$

$$x + y + z = 5$$

This system has

- (a) Unique solution      (b) Infinite number of solutions  
(c) No solutions      (d) Exactly two solutions

3.  $A$  is a  $3 \times 4$  real matrix and  $Ax = b$  is an inconsistent system of equations. The highest possible rank of  $A$  is

- (a) 2      (b) 3      (c) 4      (d) 6 :

4. Find the characteristic equation of a matrix  $A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 3 & -1 \\ 0 & -1 & 3 \end{pmatrix}$

- a)  $\lambda^3 + 2\lambda^2 + 3\lambda + 8 = 0$       b)  $\lambda^3 + 7\lambda^2 - 3\lambda + 8 = 0$   
c)  $\lambda^3 - 7\lambda^2 + 14\lambda - 8 = 0$       d)  $\lambda^3 - \lambda^2 - 14\lambda + 8 = 0$

5. The total derivative is same as the derivative of the function

- a. true      b. not true      c. Applicable in some conditions      d. not possible

6. The solution of  $e^{600x}$

- a. 9      b.  $y' = 600y$       c.  $y' = 600$       d.  $x' = 600y$

7. The degree of the differential equation  $\left[1 + \left(\frac{dy}{dx}\right)^3\right]^{\frac{2}{3}} = x \left(\frac{d^2y}{dx^2}\right)$  is

- a. 3      b. 2      c. 1      d.  $2/3$

8. The third derivative of  $y = \sin ax$  is

- a.  $a^3 \sin ax$       b.  $-a^3 \sin ax$       c.  $-a^3 \cos ax$       d.  $a^3 \cos ax$

9. If  $u = x^3 y^4$  where  $x = t^3, y = t^2$ , find  $\frac{du}{dt}$

- a.  $17t$       b.  $16t^{17}$       c.  $17t^{16}$       d.  $17t^4$

10. The solution of the equation  $(4D^2 - 4D + 1) = 0$  is

- a.  $y = (Ax + B) e^{x/2}$       b.  $y = Ae^{x/2} + B e^{-x/2}$   
 c.  $y = (Ax + B) e^{-x/2}$       d.  $y = (A + Bx) e^{-x}$

11. solve  $\int \frac{1}{\sqrt{1-x^2}} dx$

- a.  $\sin^{-1} x + c$       b.  $\cos^{-1} x + c$   
 c.  $\operatorname{cosec}^{-1} x + c$       d.  $\sin x + c$

12. Evaluate  $\int_0^1 \int_1^2 (x^2 + y^2) y dx dy$

- a.  $\frac{2}{3}$       b.  $\frac{5}{3}$       c.  $\frac{8}{3}$       d.  $\frac{2}{6}$

13. Evaluate  $\int_1^b \int_1^a \frac{dx dy}{xy}$

- a.  $\log(a - b)$       b.  $\log\left(\frac{a}{b}\right)$       c.  $\log a \log b$       d.  $\log ab$

14. Change the order of integration in  $\int_0^\infty \int_x^\infty \frac{e^{-y}}{y} dx dy$

- a.  $\int_0^y \int_0^y \frac{e^{-y}}{y} dx dy$       b.  $\int_0^\infty \int_1^x \frac{e^{-y}}{y} dx dy$       c.  $\int_0^2 \int_1^y \frac{e^{-y}}{y} dx dy$       d.  $\int_0^\infty \int_1^x dx dy$

15. Write Bernoullies formula

- a.  $\int uv dx = uv_1 - u^1 v_2 + \dots \dots \infty$       b.  $\int uv dx = uv_1 + u^1 v_2 + \dots \dots \infty$   
 c.  $\int uv dx = uv + u^1 v_2 + \dots \dots \infty$       d. none of these

16. Find the volume of the sphere  $x^2 + y^2 + z^2 = a^2$

- a.  $\frac{4\pi a^3}{3}$  cubic units      b.  $\frac{\pi a^3}{3}$  cubic units  
 c.  $\frac{2\pi a^3}{3}$  cubic units      d.  $\frac{\pi a^1}{3}$  cubic units

17. The stationary points of  $f(x, y) = x^3 + 3xy^2 - 15x^2 - 15y^2 + 72x$

- a. (5,1)(5, -1)(6,0), (4,0)                      b. (6,1) (5,0) (3,0) (1,2)
- c. (5,5) (1,1) (0,0) (6,6)                      d. (0,0) (1,1) (5,0) (2,1)

18. The solution of  $x^2 \frac{d^2y}{dx^2} - x \frac{dy}{dx} + y = 0$

- a.  $y = (A \log x + B)$                                   b.  $y = x(A \sin x + B)$
- c.  $y = x(A \cos x + B)$                               d.  $y = x(A + B \log x)$

19. The CF of the function  $(D^2 - 4D + 4)y = e^{2x} + \cos 2x$  is

- a.  $y = (Ax + B)e^x$                                   b.  $y = (Ax + B)e^{2x}$
- c.  $y = Ae^{x/2} + Be^{-x/2}$                               d. none of this

20. Change the order of integration in  $\int_0^a \int_x^a (x^2 + y^2) dy dx$

- a.  $\int_0^a \int_0^y (x^2 + y^2) dx dy$                       b.  $\int_0^a \int_0^b (x^2 + y^2) dx dy$
- c.  $\int_0^1 \int_1^2 (x^2 + y^2) y dx dy$                       d.  $\int_0^1 \int_1^2 (x^2 + y^2) dx dy$

21. Solve; 30% of 300 + x % of 50 = 60% of 400.

- a. 250                      b. 130                      c. 300                      d. 350

22.  $(\sqrt{289/34}) \times (68/\sqrt{1156}) \times (\sqrt{961/62}) = ?$

- a. 1/2                      b. 1/3                      c. 1/4                      d. 1/5

23. The sum of 5 numbers in A.P. is 30 and sum of their squares is 190. Which of the following is third term?

- a. 1                      b. 6                      c. 3                      d. 4

24.  $30L + 3Q = 1167$ ;  $30L + 3Q = 1284$ , Find L?

- a. 30                      b. 25                      c. 40                      d. Not defined

25. What is the smallest positive integer that is divisible by both 12 and 18?

- a) 24                      b. 36                      c. 72                      d. 144

**B**

**QUESTION PAPER**

**Silver Jubilee Celebrations**

**Department of Mathematics**

**Common to All Branches**

**National Mathematics Day**

**Mathematical Skill Test, December 2024**

**Day and Date: 07.12.2024**

**Max.Mark: 25**

**Time: 2.00 pm to 4.00 pm**

1. The sum of the Eigen values of the matrix  $\begin{pmatrix} 4 & 7 & 11 \\ 7 & 1 & -21 \\ 11 & -21 & 6 \end{pmatrix}$  is

- (a) 4                      (b) 23                      (c) 11                      (d) 12

2. If A and B are skew symmetric matrices then A + B is

- a) Hermitian                      b) Symmetric                      c) Skew Symmetric                      d. none of these

3. For the Square matrix  $A = \begin{bmatrix} 3 & -2 & 2 \\ 0 & -2 & 1 \\ 0 & 0 & 1 \end{bmatrix}$  One of the Eigen values is equal to -2. Which of the

following is an Eigen Vector?

- (a)  $\begin{bmatrix} 3 \\ -2 \\ 1 \end{bmatrix}$                       (b)  $\begin{bmatrix} -3 \\ 2 \\ -1 \end{bmatrix}$                       (c)  $\begin{bmatrix} 1 \\ -2 \\ 3 \end{bmatrix}$                       (d)  $\begin{bmatrix} 2 \\ 5 \\ 0 \end{bmatrix}$

4. Find the eigen value of  $A^3$  if  $A = \begin{pmatrix} 3 & 2 \\ 1 & 2 \end{pmatrix}$  is

- (a) a) 1,3                      b) 1, 9                      c) 1,4                      d) 1, 64

5. Find the rank of a matrix  $A = \begin{bmatrix} 6 & 1 & 3 & 8 \\ 4 & 2 & 6 & -1 \\ 10 & 3 & 9 & 7 \\ 16 & 4 & 12 & 15 \end{bmatrix}$  :

- a) 2                      b) 3                      c) 1                      d) 4

6. The solution to the differential equation  $\frac{d^2y}{dx^2}$

- a)  $y = A$       b)  $y = A + Bx$       c)  $y = A + Bx^2$       d)  $y = Ae^x + be^{-x}$

7. The  $n^{\text{th}}$  derivative of  $(x \cos x)$  is

- a.  $x \cos\left(x + \frac{nx}{2}\right) + n \cos\left(x + \frac{(n-1)x}{2}\right)$       b.  $x \sin\left(x + \frac{nx}{2}\right) + n \cos\left(x + \frac{(n-1)x}{2}\right)$   
 c.  $x \sin\left(x + \frac{nx}{2}\right) + n \sin\left(x + \frac{(n-1)x}{2}\right)$       d. none of this

8. If  $y^3 - 3ax^2 + x^3 = 0$  then  $\frac{dy}{dx}$  is

- a.  $\frac{x^2}{y^2}$       b.  $\frac{y^2}{2ax-x^2}$       c.  $\frac{x^3}{y^2-3ax}$       d.  $\frac{2ax-x^2}{y^2}$

9. If  $u = \tan^{-1}x$ , then  $\frac{d^2u}{dx^2}$  is given by

- a.  $\frac{x}{1+x^2} \frac{du}{dx}$       b.  $-\frac{x}{1+x^2} \frac{du}{dx}$       c.  $-\frac{2x}{1+x^2} \frac{du}{dx}$       d.  $\frac{2x}{1+x^2} \frac{du}{dx}$

10. If  $x^y = y^x$ , find  $\frac{dy}{dx}$

- a.  $\frac{yx-y^x \log y}{x^y \log x - xy^x}$       b.  $\frac{yx^y - y^x \log y}{x^y \log x - xy^x}$       c.  $\frac{yx^{y-1} - y^x \log y}{x^y \log x - xy^{x-1}}$       d.  $\frac{yx^{y-2} - y^x \log y}{x^y \log x - xy^{x-2}}$

11. Solve  $\int \sqrt{a^2 - x^2} dx$

- a.  $\frac{x}{2} \sqrt{a^2 - x^2} + \frac{a^2}{2} \sin^{-1}\left(\frac{x}{a}\right) + c$       b.  $\frac{x}{2} \sqrt{a^2 + x^2} + \frac{a^2}{2} \sin^{-1}\left(\frac{x}{a}\right) + c$   
 c.  $\frac{x}{2} \sqrt{a^2 - x^2} - \frac{a^2}{2} \sin^{-1}\left(\frac{x}{a}\right) + c$       d.  $\frac{x}{2} \sqrt{a^2 - x^2} + \frac{a^2}{2} \sin^{-1}\left(\frac{x}{a}\right) + c$

12. Evaluate  $\int_1^b \int_1^a \frac{dx dy}{xy}$

- a.  $\log(a - b)$       b.  $\log\left(\frac{a}{b}\right)$       c.  $\log a \log b$       d.  $\log ab$

13. Evaluate  $\int_0^a \int_0^b (x + y + z) dx dy$

- a.  $\frac{ac}{4}(a + b + c)$       b.  $\frac{abc}{2}(a + b + c)$   
 c.  $\frac{bc}{2}(a + b + c)$       d.  $(a + b + c)$

14. Change the order of integration in  $\int_0^a \int_x^a (x^2 + y^2) dy dx$

a.  $\int_0^a \int_0^y (x^2 + y^2) dx dy$

b.  $\int_0^a \int_0^b (x^2 + y^2) dx dy$

c.  $\int_0^1 \int_1^2 (x^2 + y^2) y dx dy$

d.  $\int_0^1 \int_1^2 (x^2 + y^2) dx dy$

15. Find the intersection points of the parabola curves  $y^2 = 4ax$  and  $x^2 = 4ay$

a.  $(4a, 4a)$  &  $(0, 0)$

b.  $(a, a)$  &  $(0, 0)$

1. c.  $(2a, 2a)$  &  $(0, 0)$

d.  $(1, 1)$  &  $(0, 0)$

16. Solve  $\int \tan^{-1} x dx$

a.  $\frac{1}{1-x^2}$

b.  $\frac{1}{1+x^2}$

c.  $\frac{1}{\sqrt{1-x^2}}$

d.  $\frac{1}{1+x^3}$

17. Evaluate  $\int \frac{2-3\sin x}{\cos^2 x} dx$

a.  $2\tan x - 3\sec x + c$

b.  $2\cos x - \sec x + c$

c.  $2\sin x + \cos x + c$

d.  $\tan x - \sec x + c$

18. The particular integral of  $(D - 1)^2 y = e^x \sin x$

a. P.I =  $-e^{-x} \cos x$

b. P.I =  $-e^x \sin x$

c. P.I =  $-e^y \sin y$

d. P.I =  $e^x \sin x$

19. Evaluate  $\int_0^1 \int_0^2 \int_1^2 xyz^2 dz dy dx$

a.  $\frac{7}{3}$

b.  $\frac{8}{3}$

c.  $\frac{9}{3}$

d.  $\frac{1}{3}$

20. Evaluate  $\int \frac{2\cos x - 3\sin x}{6\cos x + 4\sin x} dx$

a.  $1/2 \log(2\sin x + 3\cos x)$

b.  $1/3 \log(3\sin x + 3\cos x)$

c.  $1/6 \log(\sin x + \cos x)$

d.  $\log(\sin x + \cos x) + c$

21. If  $a - b = 3$  and  $a^2 + b^2 = 29$ , find the value of  $ab$ .

a. 12

b. 10

c. 11

d. 14

22. Find the number of divisors of 1728

a. 28

b. 21

c. 24

d. 18

23. What is the greatest possible positive integer  $n$  if  $8^n$  divides  $44^{44}$  without leaving a remainder?

- a. 14      b. 28      c. 29      d. 15

24. The numbers 272738 and 232342 when divided by  $n$ , a 2 digit number leaves a remainder of 13 and 17 respectively. Find the sum of the digits of  $n$ ?

- a. 1      b. 5      c. 7      d. 6

25. The Addition of  $641 + 852 + 973 = 2456$  is incorrect. What is the largest digit that can be changed to make the addition correct?

- a. 1      b. 5      c. 7      d. 6

PHOTO GALLERY





**Results :****Analytical Skill Test**

S.No	Name of the Participant	Department	Prize
1	PARKAVI J	I AI&DS -A	I
2	ASWIN K	I CSE -D	I
3	AJAY D	I CIVIL	II
4	SIVASANKAR S	I CSE-D	II
5	KARTHIGA S	I AI&DS-A	II
6	SANTHIYA M	I CSE -D	III
7	SRIHARINI K	I CSE -D	III
8	RAVIKIRAN M	I ECE -C	III


**Secretary**

(M.Sugasini)


**Chair Person**

(Mrs.B.Kavitha)


**Dean Academics**

(Dr.S.Anbumalar)


**Director cum Principal**

(Dr.V.S.K.Venkatachalapathy)

**SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/2**

This is to inform that the **Mathematics Club** has planned to conduct **Poster Presentation/ Mathematical modelling** for the first-year students on 07.12.2024 (Saturday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	Math club	07.12.2024	Dr.K.Raja Mrs. M. Sugasini Mr.K.Gurusamy	35	To motivate the students to get good knowledge mathematics through the Club activities like Mathematical modeling and poster presentation

Total Number of Participants : 35


Year of students: I

Date: 07/12/2024

Venue : IT Seminar Hall

Mode of Activity: Offline

Event Coordinator: Dr. K. Raja, M. Sugasini, K. Gurusamy



**Secretary**  
(M.Sugasini)



**Chair Person**  
(Mrs.B.Kavitha)



**Dean Academics**  
(Dr.S.Anbumalar)



**Director cum Principal**  
(Dr.V.S.K.Venkatachalapathy)

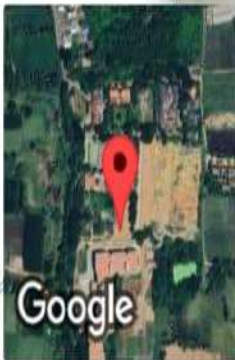
**Names of the Participant: Poster Presentation**

<b>S.No</b>	<b>Name</b>	<b>Year</b>	<b>Department</b>
1	KRUTHIKA M	I	AI&DS
2	YUVASRI P	I	AI&DS
3	DHINESH KARTHICK P	I	AI&DS
4	DHELIP KUMAR M	I	AI&DS
5	KEERTHANADAS	I	AI&DS
6	GOURAVASEKRAN V	I	AI&DS
7	KAMALESH	I	AI&DS
8	SARVESH	I	AI&DS
9	GOVARTHANAKRISHNAN	I	AI&DS
10	BALAJI. M	I	AI&DS
11	JEIVAN S	I	AI&DS
12	UDHAYARAM N	I	AI&DS
13	KAVIYA SREE E	I	AI&DS
14	HARINI S	I	AI&DS
15	SONIYA. S	I	BME
16	SASMITA G	I	BME
17	HARANI G	I	BME
18	KISHORE B	I	ECE
19	VIGHNEASH S	I	ECE
20	KAVIYA	I	ECE
21	ROJITHA	I	ECE
21	JEEVEDHA	I	ECE
23	PRIYADHARSHINI	I	ECE
24	SANJAY R	I	EEE
25	MADHUMITHA V	I	AI&DS
26	NIVEDA R	I	AI&DS
27	PRIYADHARSHINI B	I	AI&DS
28	NAVYALAKSHMI M	I	AI&DS

**Names of the Participant: Mathematical Modelling**

<b>S.No</b>	<b>Name</b>	<b>Year</b>	<b>Department</b>
<b>1</b>	KEERTHANA DAS	I	AI&DS
<b>2</b>	KRUTHIKA MANICKAM	I	AI&DS
<b>3</b>	YUVASRI PRAKASH	I	AI&DS
<b>4</b>	RAGUL S	I	MECHATRONICS
<b>5</b>	SINDHUJA LAKSHMI S	I	ECE
<b>6</b>	SRIHARSHINI	I	ECE
<b>7</b>	SUBASHINI	I	ECE

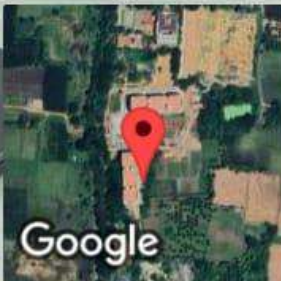
PHOTO GALLERY



Madagadipet, Puducherry, India  
Wj7p+f25, Road, Madagadipet, Puducherry  
605106, India  
Lat 11.913664° Long 79.635239°  
07/12/24 02:36 PM GMT +05:30



 GPS Map Camera



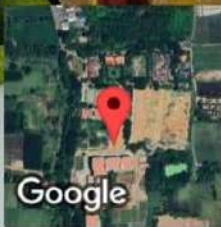
Madagadipet, Puducherry, India  
Wj6m+xx, Madagadipet, Puducherry 605106, India  
Lat 11.911974° Long 79.634968°  
07/12/24 02:34 PM GMT +05:30

Google



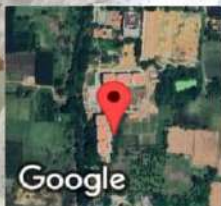
GPS Map Camera

Madagadipet, Puducherry, India  
Wj6m+xx, Madagadipet, Puducherry 605106,  
India  
Lat 11.912345° Long 79.635053°  
07/12/24 02:34 PM GMT +05:30



GPS Map Camera

Madagadipet, Puducherry, India  
Wj6m+xx, Madagadipet, Puducherry 605106,  
India  
Lat 11.911982° Long 79.634986°  
07/12/24 02:43 PM GMT +05:30



**Results :**

**Powerpoint Presentation**

S.No	Name of the Participant	Department	Prize
1	NIVEDA R	I AI&DS-A	I
2	PRIYADHARSHINI B	I AI&DS-A	
3	MADHUMITHA V	I AI&DS-C	II
4	NAVYALAKSHMI M	I AI&DS-C	

**Poster Presentation**

S.No	Name of the Participant	Department	Prize
1	KAVIYA SREE E	I AI&DS-B	I
2	HARINI S	I AI&DS-B	
3	SASMITA G	I BME	II
4	SANJAY R	I EEE B	III

**Mathematical presentation**

S.No	Name of the Participant	Department	Prize
1	KEERTHANA DAS	I AI&DS-A	I
2	KRUTHIKA MANICKAM	I AI&DS-A	
3	YUVASRI PRAKASH	I AI&DS-A	
4	RAGUL S	MECHATRONICS	II
5	SINDHUJA LAKSHMI S	ECE	III
6	SRIHARSHINI	ECE	
7	SUBASHINI	ECE	



**Secretary**

(M.Sugasini)



**Chair Person**

(Mrs.B.Kavitha)



**Dean Academics**

(Dr.S.Anbumalar)



**Director cum Principal**

(Dr.V.S.K.Venkatachalapathy)

**SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/3**

This is to inform that the **Mathematics Club** has planned to conduct **Guest Lecture & Prize Distribution** for the first-year students on **23.12.2024** (Monday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	Math club	23.12.2024	Dr.K.Raja Mrs. M. Sugasini Mr.K.Gurusamy	80	Students came to about the <b>National Mathematics Day</b> to commemorate the birth anniversary of Srinivasa Ramanujan, a legendary Indian mathematician. His contributions to theory, infinite series, and mathematical analysis are highly regarded in the scientific community. National Mathematics Day serves as an opportunity to honour Ramanujan's remarkable achievements and recognize the importance of mathematics in our daily lives.

Total Number of Participants : 80

Year of students: I

Date: 23/12/2024

Venue : Conference Hall

Mode of Activity: Offline

Event Coordinator: Dr. K. Raja, M. Sugasini, K. Gurusamy



**Secretary**  
(M.Sugasini)




**Chair Person**  
(Mrs.B.Kavitha)



**Dean Academics**  
(Dr.S.Anbumalar)



**Director cum Principal**  
(Dr.V.S.K.Venkatachalapathy)



**SRI MANAKULA VINAYAGAR**  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)  
Madagadipet, Puducherry - 605 107

**SILVER JUBILEE CELEBRATION**

**Department of Mathematics**

**NATIONAL MATHEMATICS DAY**  
On Monday, 23<sup>rd</sup> December 2024 at 10.15 am,  
Venue : Conference Hall

**Dr. K. Balasangu**  
Associate Professor and Head  
PG & Research Department of Mathematics  
Thiru Kolanjiappar Govt Arts College ,Virudhachalam, Cuddalore Dist  
**Chief Guest Address**

**Shri.M.Dhanasekaran**  
Chancellor Takshashila University,  
Chairman and Managing Director,SMVE Trust  
**Presidential Address**

**Dr.K.Narayanasamy**      **Shri.D.Rajarajan**      **Shri.S.Velayudham**  
Secretary,SMVE Trust      Treasurer,SMVE Trust      Joint Secretary,SMVE Trust  
**Special Address**

**Dr. V.S.K.Venkatachalapathy**  
Director cum Principal, SMVEC  
**Felicitate**

**Dr.S.Jayakumar**   **Dr.A.A.Arivalagar**   **Dr.S.Anbumalar**   **Dr.N.S.N.Cailassame**   **Dr.K.Velmurugan**  
COE      Dean Academics      Dean Academics      Dean Placement      Dean Research  
**your esteemed presence is highly solicited**

**Mrs.B.Kavitha**  
HOD/ Maths, SMVEC  
**Welcome Address**

**Mrs.M.Sugasini**  
AP/ Maths, SMVEC  
**Gratitude Note**



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(ACCREDITED BY NBA-AICTE, NEW DELHI, ACCREDITED BY NAAC WITH 'A' GRADE)  
MADAGADIPET, PUDUCHERRY - 605 107



**SILVER JUBILEE CELEBRATION**

**Department of Mathematics**



**NATIONAL MATHEMATICS DAY**

On

**23<sup>rd</sup> December 2024**

**10.15 am to 12.30 pm**

**Conference Hall**

**Events**

**7<sup>th</sup> December 2024**

1. Analytical Skill Test
2. Mathematical Model / Poster Presentation

**23<sup>rd</sup> December 2024**

- Guest Lecture & Prize Distribution**

**Chief Guest**



**Dr. K. Balasangu**

Associate Professor and Head  
PG & Research Department of Mathematics  
Thiru Kolanjiappar Govt Arts College  
Virudhachalam, Cuddalore Dist.

Topic : **Ramanujan- An Inspiration to Engineers**

**Convenor**

Mrs. B.Kavitha, HOD/Maths

**Coordinators**

Dr.K.Raja, AP/ Maths

Mrs.M.Sugasini, AP/Maths

Mr.K.Gurusamy, AP/Maths

**Co-Coordinator**

Dr. B. Kanimozhi ,Prof./Maths

Mrs. S. P.Lavanya, AP/ Maths

Mr. R. Vijayakumar, AP/ Maths

**Committee Members**

Dr. S. Rajakumar, Prof./Maths

Mr. M. Devanathan, AP/ Maths

Mrs. R.Chandrapraba, AP/ Maths

Mr. T. Sankar, AP/ Maths

Ms. M. Guna, AP/ Maths

Mrs. S. Revathi, AP/ Maths

Mr. A. Balamurugan, AP/ Maths

Dr. T. Poovaragavan, AP/ Maths

Mrs. D.Dheebia, AP/ Maths

Mr. R. Rajesh, AP/ Maths

Mrs. T.Kalaiselvi, AP/ Maths

Mr. V. Vasanth, AP/ Maths

Mrs. M. Subathra, AP/ Maths

**“An equation for me has no meaning,  
unless it expresses a thought of God.”**

- Srinivasa Ramanujan



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Madagadipet, Puducherry

*Silver Jubilee Celebration ...*

**DEPARTMENT OF MATHEMATICS**

**NATIONAL MATHEMATICS DAY**

on Monday, 23<sup>rd</sup> December 2024 at 10.15 am Venue: Conference Hall



Chief Guest

**Dr. K. BALASANGU**

Associate Professor and Head  
PG & Research Department of Mathematics  
Thiru Kolanjiappar Govt Arts College Virudhachalam,  
Cuddalore Dist.

**Name of the Participants:**

S.NO	ENROLL NO.	NAME
1	240454	AAFRIN SHENAF S
2	241269	ABDHUL RAHMAN J
3	241453	AKASH M
4	240189	AMULRAJ J
5	241446	ANUSHA D
6	240084	ARAVINTH.R
7	241392	ARULJOTHI M
8	240651	ARUN A
9	241181	BARATH B
10	240608	BHARATHRAJ S
11	240188	CHANDRU.V
12	240605	DEVEESWAR K
13	241291	DHINAKARAN P
14	240063	DHIVYADHARSHINI.M
15	241762	ELAKKIYA S
16	240352	GAJALAKSHMI.B
17	241147	GAYATHRI B
18	241454	GOKUL KUMAR R
19	240365	GOPINATH A
20	240542	GURUMOORTHY T
21	240428	HARIHARAN.V.S
22	240080	HARINI K
23	241379	HARISH S
24	240474	HEMALATHA.E
25	241121	I SRI GUGAN .G
26	240539	JAYAN V
27	241045	JAYASRI J
28	240471	JAYASRI T
29	240306	JESEELA M
30	241076	KARTHIK S
31	241957	KAVIN KUMAR S
32	240661	KAVIYA S

33	241287	KEERTHANA J
34	241273	KEERTHIC RAJAN G
35	241436	KIRUTHIGA.S
36	240597	KUMARESH J
37	240512	LALITHA.S
38	241973	LOGASRI A
39	241967	LOKESH K
40	241207	MADHAVAN A
41	240339	MADHUSRI B
42	241234	MANIKANDAN A
43	241784	MANJUPRIYA.A
44	240640	MANOJPANDIYAN E
45	240534	MENAAL S
46	241347	MOHANA PRIYA B
47	241285	MONIKA R
48	241703	MONISHA P
49	240168	NARESH KUMAR C
50	241380	NAVIN.V
51	241381	NITHYALAKSHMI S
52	241186	PRAVEEN KUMAR S
53	241983	PUSHPARAJ K
54	240122	RAMYASAKTHI S
55	241855	RINSIYA M
56	240114	RUDHRA KUMAR N
57	241758	SALAMON S
58	241752	SANJAI K
59	241974	SENNILAVAZHAN C
60	241777	SHAMINI V
61	240305	SHEREEN BEGAM A
62	240377	SIVARANJANI S
63	240459	SOMESHWAR K
64	241773	SOWMIYA T
65	240193	SRINIVASAN S
66	241671	SUJITHA R
67	241281	SUNDAR T
68	241450	SURYA. R
69	241781	THAMIZHARASU A J
70	240388	THARANIVASAN.S
71	240611	THIRUNAVUKARASU T

72	241343	VAJEJAA A V(DISCONTINUED)
73	242016	VANMATHI V
74	240341	VELMURUGAN V
75	240543	VENKATRAMANAN C
76	241907	VIGNESWARI A
77	241766	VIJAYALAKSHMI S
78	240545	VINOTH KUMAR P
79	242001	YOKESH KUMAR J
80	241757	ZISHAAN ATHEEQ MOHAMMED

**Welcome Address by Mrs.B.Kavitha ,Head, Department of Mathematics**



**Introduction to Chief Guest - Dr.B.Kanimazhi , Professor, Department of Mathematics**



**Chief Guest**

Dr. K. Balasangu

Associate Professor and Head

PG &amp; Research Department of Mathematics

Thiru Kolanjiappar Govt Arts College Virudhachalam,

Cuddalore Dist.

**Address the gathering**

Chief Guest - Presentation



Active Participants



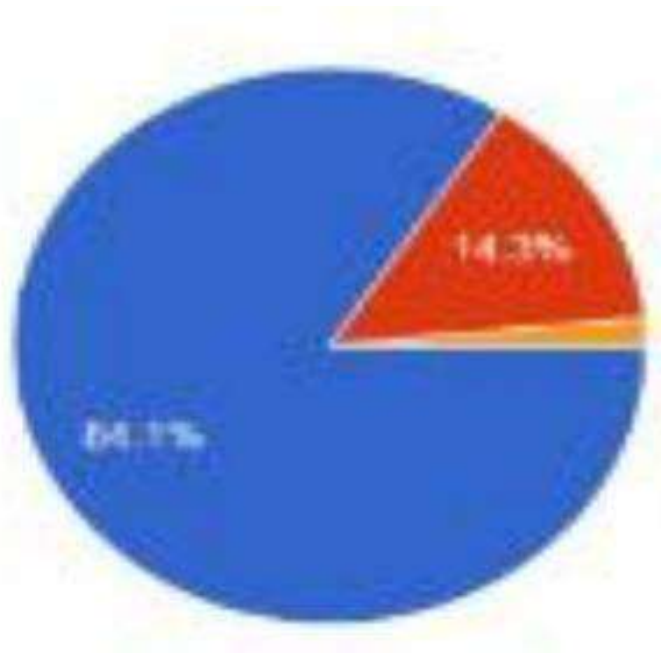
Prize Distribution





Vote of Thanks by Mrs. S.P.Lavanya, Assistant professor , Department of mathematics



**STUDENT FEEDBACK**

The pie chart shows that 84.1% of students are willing to recommend the Mathematics Club activities, while 14.7% expressed conditional interest. This clearly demonstrates the positive perception and value of the club among students

**Benefits in terms of Learning/Skill/Knowledge obtained**

- Students know about the renowned Mathematician Srinivasa Ramanujan
- Students got knowledge in Application of Mathematics

Total No of Faculty Participants - 25

Total No of Students Participants - 80

Total No of External Participants - 2



**Secretary**

(M.Sugasini)



**Chair Person**

(Mrs.B.Kavitha)



**Dean Academics**

(Dr.S.Anbumalar)



**Director cum Principal**

(Dr.V.S.K.Venkatachalapathy)



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MADAGADIPET, PUDUCHERRY - 605 107



### PIE-DAY

#### SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/4

This is to inform that the **Mathematics Club** has planned to conduct **Pi Day** for the first-year students on 07.12.2024 (Saturday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	PI DAY	10.03.2025 and 14.03.2025	Dr. B.Kanimozhi Dr. S. Rajakumar Mrs. S.P. Lavanya	150	To promote awareness and appreciation of the mathematical constant $\pi$ (Pi) and its applications through engaging and educational activities.

Total Number of Participants : 150

Year of students: II and III

Date: 01./03/2025 and 14/03/2025

Venue : IT Seminar Hall

Mode of Activity: Offline

Event Coordinator: Dr. B. Kanimozhi, Dr. S. Rajakumar and Mrs. S P Lavanya

S.P.L. Lavanya  
Coordinator  
(Dr. B.Kanimozhi  
Dr. S. Rajakumar  
Mrs. S.P. Lavanya)

B. Kavitha  
Chair Person  
(Mrs.B.Kavitha)

Anbumalar  
Dean Academics  
(Dr.S.Anbumalar)

V.S.K. Venkatachalapathy  
Director cum Principal  
(Dr.V.S.K.Venkatachalapathy)



**SRI MANAKULA VINAYAGAR**  
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**DEPARTMENT OF MATHEMATICS**

**Pi DAY**

**ACADEMIC YEAR 2024-2025**



**SRI MANAKULA VINAYAGAR**

ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)

MADAGADIPET, PUDUCHERRY



SILVER JUBILEE CELEBRATION ...

INTERNAL QUALITY ASSURANCE CELL & DEPARTMENT OF MATHEMATICS

*Jointly organize*



**DAY CELEBRATION**

TOPIC: MODERN APPROACHES ON QUEUEING NETWORKS AND THEIR REAL - WORLD APPLICATIONS

Chief Guest

**Dr. P. AGILAN**

Associate Professor

Department of Mathematics

St. Joseph's College of Engineering, Chennai

Felicitate

**Dr. V.S.K. VENKATACHALAPATHY**

Director cum Principal

14<sup>th</sup> March 2025 Time: 10.15 am Venue: Conference Hall



## Content

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SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE

25

Department of Mathematics

04.03.2025  
Puducherry

From  
Mrs. B. Kavitha  
Head of the Department  
Sri Manakula Vinayagar Engineering College  
Puducherry -605 107.

To  
The Director cum Principal  
Sri Manakula Vinayagar Engineering College  
Puducherry -605 107.

Subject: Permission to conduct Pi Day -Reg

Respected Sir,

I wish to inform you that, the IQAC Cell and Department of Mathematics jointly planned to celebrate Pi Day. Pi Day is an annual celebration of the mathematical constant  $\pi$ . Pi Day is observed on March 14 (the 3rd month) since 3, 1, and 4 are the first three significant figures of  $\pi$ .

As a Part of Pi Day celebration, we have planned to conduct the following activity for our students.

- (i) Presentations about the Constant Pi / History of Pi.
- (ii) Creative Pi-Themed Art & Poster Competition / Models preparation related to Pi.
- (iii) Presentations about any mathematician and their contributions to the world.

Hence, we request you to give permission to conduct the above event on 10<sup>th</sup> March 2025 and to celebrate the programme on 14<sup>th</sup> March 2025 in our college Premises. Kindly consider my request and do the needful sir.

Thanking You.

HOD/Mathematics  
(Mrs. B. Kavitha)

IQAC Coordinator  
(Dr. A. A. Arivalagar)

Dean Academics  
(Dr. S. Anbumalar)

Director cum Principal  
(Dr. V. S. K. Venkatachalapathy)



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
TAM. AD. KONAMINCHI. CHENNAI. INDIA

25

Department of Mathematics

**CIRCULAR**

SMVEC/MAT/2024-25/ 06

Date: 04.03.2025

We are happy to inform that, the IQAC Cell and Department of Mathematics jointly planned to celebrate Pi Day. Pi Day is an annual celebration of the mathematical constant  $\pi$ . Pi Day is observed on March 14 (the 3rd month) since 3, 1, and 4 are the first three significant figures of  $\pi$ .

As a part of Pi Day celebrations, we have planned to conduct the following activity for our students.

- (i) Presentations about the Constant Pi / History of Pi.
- (ii) Creative Pi-Themed Art & Poster Competition / Models preparation related to Pi.
- (iii) Presentations about any mathematician and their contributions to the world.

In this regard, all the Heads are requested to kindly circulate the circular to your department students and motivate them to participate the events.

Venue: Seminar Hall, 5<sup>th</sup> Floor, New Block.

Date and Time: 10.03.2025 and 2.00 pm

1. B. U...  
2. B. Rain...  
3. S.P. L...  
Event Coordinators

1. Dr. B. Kanimozhi

B. Jkm

Head of the Department

(Mrs. B. Kavitha)

Director cum Principal

(Dr. V.S.K. Venkatachalapathy)



## SRI MANAKULA VINAYAGAR

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MADAGADIPET, PUDUCHERRY - 605 107



### Programme Details

S.No	Event	Instructions	Date & Time
1	Presentations about the Constant Pi / History of Pi.	Explain your Presentations about the Constant Pi / History of Pi.	10.03.2025 2 pm to 4 pm
2	Creative Pi-Themed Art & Poster Competition / Models preparation related to Pi.	Display and Explain your Models	10.03.2025 2 pm to 4 pm
		Display and Explain your Poster.	10.03.2025 2 pm to 4 pm
3	Presentations about any mathematician and their contributions to the world.	Explain your Presentations about any Mathematician	10.03.2025 2 pm to 4 pm

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S.No	Event	Instructions	Date & Time	Remarks
1	Presentations about the Constant Pi / History of Pi.	Explain your Presentations about the Constant Pi / History of Pi.	10.03.2025 2 pm to 4 pm	Certificates provided to Best

**The Total Number of Student Participated in Presentations about the Constant Pi / History of Pi:150**

PHOTO GALLERY





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S.No	Event	Instructions	Date & Time	Remarks
2	Creative Pi-Themed Art & Poster Competition / Models preparation related to Pi.	Display and Explain your Models	10.03.2025 2 pm to 4 pm	Certificates provided to Best Model
		Display and Explain your Poster.	10.03.2025 2 pm to 4 pm	Certificates provided to Best Poster

**The Total Number of Student Participated in Creative Pi-Themed Art & Poster Competition / Models preparation related to Pi:**



PHOTO GALLERY





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S.No	Event	Instructions	Date & Time	Remarks
3	Presentations about any mathematician and their contributions to the world.	Explain your Presentations about any Mathematician	10.03.2025 2 pm to 4 pm	Certificates provided to Best

**The Total Number of Student Participated in Presentations about any mathematician and their contributions to the world:**

PHOTO GALLERY





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## REQUISITION LETTER TO CHIEF GUEST

### Department of Mathematics

From

Mrs.B.Kavitha

Head & Department of Mathematics  
Sri Manakula Vinayagar Engineering College  
Puducherry- 605107

To

Dr.P. Agilan,  
Associate Professor,  
Department of Mathematics,  
St.Joseph's college of Engineering,  
Chennai.

Respected Sir

**SUB:** Invitation to Act as Chief Guest on Pi- Day Celebration-Requisition -reg  
-----

I hope you are doing well. On behalf of the Department of Mathematics at Sri Manakula Vinayagar Engineering college. It is my privilege to invite you as the **Chief Guest** for our **Pi-Day Celebration**.

This event is a tribute to the remarkable contributions of mathematicians and aims to ignite a passion for mathematics among students and enthusiasts. Given your outstanding achievements and significant contributions to the programme, we believe your presence will be a great source of inspiration for our audience. The celebration is scheduled for **March 14, 2025 at 10.15a.m (Conference Hall)**, and we would be truly honored to have you with us.

We sincerely appreciate your consideration and look forward to your positive response.

Thank you very much for considering our invitation.

**Place:** Puducherry

**Date:** 30.11.2024

Sincerely

(Mrs.B.Kavitha)



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
100, MANAKULAVINAYAGAR STREET,  
TIRUPUR, TAMIL NADU - 635 005



DEPARTMENT OF MATHEMATICS  
Pi DAY  
Friday 14<sup>th</sup> March 2025, 10.00 am

PRIZE WINNERS LIST

Event : Models Presentation on Pi

S.No	Name	I Prize
1	M. Ravi kiran	ECE/ I /C
2	C. Lokitha	ECE/ I /C

S.No	Name	II Prize
1	R.Priyadharshini	EEE/ I /A
2	B. Sodarvizhi	EEE/ I /A

S.No	Name	III Prize
1	M.Shivani Priyai	EEE/ I /B
2	M.Vinodh sri	EEE/ I /B
3	R.Gowtham	ECE/ I /B
3	T.Thirumalai rajan	ECE/ I /B

Event : Poster Presentation on Pi

S.No	Name	I Prize
1	E.Kaviyasree	AI & DS / I /B

S.No	Name	II Prize
1	G.Sasmita	BME / I /A
2	L.Sathiya Priya	BME / I /A

S.No	Name	III Prize
1	R.Megha	EEE/ I /B
2	A.Aswini	EEE/ I /B
3	R.Guhan	CSBS / II /A

*B. Han*

**Event : Presentation – About Mathematician**

S.No	Name	I Prize
1	R.Sitharth	CSEBS / I /A
2	S. Rishikumar	CSEBS / I/A

S.No	Name	II Prize
1	S.Keerthanadas	AI & DS /I /A
2	P.Yuvasri	AI & DS /I /A

S.No	Name	III Prize
1	D.Krishnakumar	CSE / I /B
2	P.Harini	AI & DS / II /B
3	M.Mukilan	CSE / I /D
4	S. Praveen	CSE / I /D

**Event : History of Pi**

S.No	Name	I Prize
1	V.Soundharya	CSE / I /D

S.No	Name	II Prize
1	N.Arathana	AI & DS /I /C
2	C.Bhavya	AI & DS /I /C

S.No	Name	III Prize
1	P.Dhinesh Karthick	AI & DS /I /C
2	V.Gouravasekaran	AI & DS /I /C
3	G.Sowmya	IT / I /C





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### INVITATION



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### SILVER JUBILEE CELEBRATIONS

INTERNAL QUALITY ASSURANCE CELL

&

DEPARTMENT OF MATHEMATICS

The Management, Director cum Principal, Deans, HODs & Faculties  
cordially invite you for

**$\pi$  - DAY** Celebration

On Friday, 14<sup>th</sup> March 2025 at 10.15 a.m

Venue : Conference Hall

**Dr.P.AGILAN**

Associate Professor

Department of Mathematics

St.Joseph's College of Engineering, Chennai

Chief Guest

**Shri.M.DHANASEKARAN**

Chancellor, Takshashila University

Chairman and Managing Director, SMVE Trust

Presidential Address

**Dr.K.NARAYANASAMY**

Secretary, SMVE Trust

**Shri.D.RAJARAJAN**

Treasurer, SMVE Trust

**Shri.S.VELAYUDHAM**

Joint Secretary, SMVE Trust

Special Address

**Dr.V.S.K.VENKATACHALAPATHY**

Director cum Principal, SMVEC

Felicitate

**Dr.A.A.ARIVALAGAR**

Dean Academics

Keynote Address

**Dr.S.JAYAKUMAR**

COE

**Dr.S.ANBUMALAR**

Dean Academics

**Dr.K.VELMURUGAN**

Dean Research

**Dr.N.S.N.CAILASSAME**

Dean Placement

your esteemed presence is highly solicited

**Mrs.B.KAVITHA**

HOD/Mathematics, SMVEC

Convenor

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**DEPARTMENT OF MATHEMATICS****Pi DAY****PROGRAMME SCHEDULE****Friday 14<sup>th</sup> March 2025, 10.00 am**

- **Prayer Song**
- **Welcome Address** - **Mrs. B. Kavitha**  
HoD/Mathematics
- **Felicitation Address** - **Dr. A. A. Arivalagar**  
Dean Academics
- **Presidential Address** - **Dr. V.S.K. Venkatachalapathy**  
Director cum Principal
- **Chief Guest Introduction** - **Dr. B. Kanimozhi**  
Prof./Mathematics
- **Prize Distribution** - **Dignitaries**
- **Chief Guest Address** - **Dr. P. Agilan**  
Associate Professor
- **Vote of Thanks** - **Mrs. S.P. Lavanya**  
AP/Mathematics
- **National Anthem**





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### DEPARTMENT OF MATHEMATICS

### Pi DAY

### BANNER

**SRI MANAKULA VINAYAGAR**  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)  
MADAGADIPET, PUDUCHERRY

**25 YEARS**  
INSTITUTION'S INNOVATION COUNCIL  
(MEMBER OF AICTE)

SILVER JUBILEE CELEBRATION ...  
INTERNAL QUALITY ASSURANCE CELL & DEPARTMENT OF MATHEMATICS  
*Jointly organize*  
**π<sub>3.14</sub>**  
DAY CELEBRATION

TOPIC: MODERN APPROACHES ON QUEUEING NETWORKS AND THEIR REAL - WORLD APPLICATIONS

Chief Guest  
**Dr. P. AGILAN**  
Associate Professor  
Department of Mathematics  
St. Joseph's College of Engineering, Chennai

Felicitate  
**Dr. V.S.K. VENKATACHALAPATHY**  
Director cum Principal

14<sup>th</sup> March 2025 Time: 10.15 am Venue: Conference Hall

## Report on Pi Day Programme

The Programme on "pi day" was organized by the Department of Mathematics, Sri Manakula Vinayagar Engineering College (SMVEC), Madagadipet, Puducherry, on March 14 2025, for I, II-Year Engineering students.

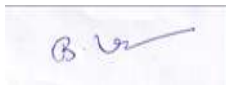
The program began with a welcome note by Mrs. B.Kavitha, Associate Professor and Head, Department of Mathematics, SMVEC. She extended a warm welcome to the Resource Person, Dr. P. Agilan, Associate Professor, Department of Mathematics, St.Joseph's college of Engineering, Chennai.

Dr. P. Agilan delivered an engaging and insightful lecture on "Pi Day talk, " addressing Modern Approach on queueing network and their Real-world Application. His talk comprehensively covered the applications of various queueing concepts including queueing Models, Application of real-world Problems.

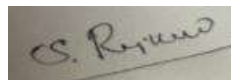
The guest lecture was attended by over 240 students who were keen to gain knowledge and practical insights into the application of statistics in engineering.

At the conclusion of the program, Mrs. S. P.Lavanya, Assistant Professor of Mathematics at SMVEC, delivered the vote of thanks, expressing gratitude to the speaker and participants.

### Program coordinator



Dr. B. Kanimozhi



Dr. S. Rajakumar



Mrs.S.P.Lavanya



### Program Convenor

(Mrs.B.Kavitha)



### Director cum Principal

(Dr. V.S.K. Venkatachalapathy)

PHOTO GALLERY

Welcome Address by Mrs. B. Kavitha, Head, Department of Mathematics



Felicitation Address - Dr. A. A. Arivalagar (Dean Academics)



**Honoring of Chief Guest - Dr. P. Agilan**



**Introduction of Chief Guest by Dr. B. Kanimozhi, Professor**



Chief Guest Address - Dr. P. Agilan



**Prize Distribution**



**Vote of Thanks by Mrs. S. P, Lavanya, Assistant Professor**



Certificates:







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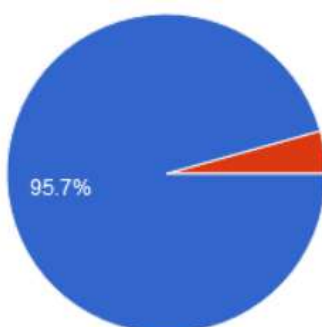
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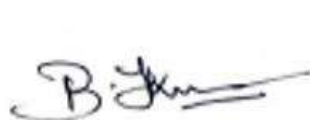
### Budget Pi Day

S.No	Item	Quantity	Cost
1	Gift for Guest	1	Rs 2000
2	Remuneration for Chief Guest	1 person	Rs 4000
3	Shawl	3	Rs 2000
4	Bouquet	3	Rs 2000
5	Snacks, Sweets	10 persons	Rs 3000
6	Certificates and Gifts for students	30	Rs 12000
<b>Total</b>			<b>Rs 25000</b>


### STUDENT FEEDBACK



The pie chart shows that 95.7% of students are willing to recommend the PIE-DAY activities, while 4.3% expressed conditional interest. This clearly demonstrates the positive perception and value of the club among students.

  
HOD/Mathematics  
(Mrs. B. Kavitha)

  
IQAC Coordinator  
(Dr. A. A. Arivalagar)

  
Dean Academics  
(Dr. S. Anbumalar)

  
Director cum Principal  
(Dr. V. S. K. Venkatachalapathy)



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### SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/5

This is to inform that the **Mathematics Club** has planned to conduct **Quiz Program on Probability Theory** for the Third-year students on **24.08.2024** (Saturday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	Math club	24.08.2024	Mrs. S. P. Lavanya Mrs. M. Sugasini	60	To enhance students' knowledge, analytical thinking, and competitive spirit by testing their understanding through an interactive quiz competition.

Total Number of Participants : 60

Year of students: II IT and II BME

Date: 24/08/2024

Venue : 615

Mode of Activity: Offline

Event Coordinator: Mrs S P Lavanya and mrs M Sugasini

**Coordinator**

(S.P. Lavanya, M.Sugasini)

**Chair Person**

(Dr.T.Gayathri)

**Director cum Principal**

(Dr.V.S.K.Venkatachalapathy)



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## DEPARTMENT OF MATHEMATICS

”

**QUIZ TIME**



**DATE : 24 AUGUST, 2024**  
**TIME : 2.00 PM TO 3.00 PM**  
**VENUE : NEW BLOCK, V FLOOR,**

PHOTO GALLERY

QUIZ COMPETITION





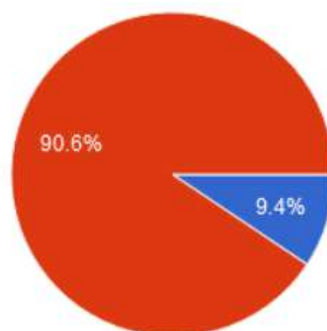
## Description of the event

On 24.08.2024, the Mathematics Club organized a Quiz Program in “Probability Theory” for third year students of Information Technology and Bio Medical Engineering. The event was organized by Mrs. S .P. Lavanya Assistant Professor/Mathematics and Mrs. M. Sugasini, Assistant Professor/Mathematics.

Contestants may compete individually or in teams, answering multiple-choice questions, solving problems, or participating in interactive scenarios. The quiz can be divided into several rounds, each progressively increasing in difficulty. For example, early rounds might cover basic concepts, while later ones delve into more complex applications, such as Bayesian probability or Markov chains. Questions might include practical examples, such as calculating the odds in games of chance, analyzing statistical data, or understanding probability in everyday decisions. Charts, graphs, or simulations may be used to illustrate concepts and enhance understanding. Points could be awarded for correct answers, with bonus points for particularly challenging questions. At the end of the event, prizes could be awarded to top performers, encouraging participation and friendly rivalry.

Overall, the event aims to make probability theory engaging and accessible while promoting critical thinking and problem-solving skills.

## STUDENT FEEDBACK



The pie chart shows that 90.6% of students are willing to recommend the Quiz Programme activities, while 9.4% expressed conditional interest. This clearly demonstrates the positive perception and value of the club among students.



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### SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/6

This is to inform that the **Mathematics Club** has planned to conduct **Guest Lecture on Statistics for Engineers** for the Third-year students ECE on **10.08.2024** (Saturday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	Math club	24.08.2024	Dr. B.Kanimozhi Dr. S. Rajakumar	250	To enhance students' knowledge, analytical thinking, and competitive spirit by testing their understanding through an interactive quiz competition.

Total Number of Participants : 250

Year of students: II and III

Date: 10/08/2024

Venue : EEE Seminar Hall

Mode of Activity: Offline

Event Coordinator: Dr. B. Kanimozhi and Dr. S. Rajakumar

**Coordinator**

Dr. B. Kanimozhi  
Dr. S. Rajakumar

**Chair Person**

(Dr.T.Gayathri)

**Director cum Principal**

(Dr.V.S.K.Venkatachalapathy)



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
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Madagadipet, Puducherry-605107



**DEPARTMENT OF MATHEMATICS**  
**ORGANIZES**  
**Guest Lecture**  
**on**  
**STATISTICS FOR ENGINEERS**  
**RESOURCE PERSON**



**Mr . P . SUTHERSAN., M. Sc., M.Phil., (Ph.D.,)**

**Project Associate (DST-SERB)**

**Kalasalingam Academy of Research and Education**  
**Krishnankoil- 626126**

 **Program Details**

**Date:** 10. 08. 2024      **Time:** 10.30 am to 12.30 pm

**Participants:** III-Year ECE Students

**Venue:** New Block, III - Floor, Seminar Hall

**Program Convenor**

Dr. T. Gayathri, HoD/Mathematics

**Program Coordinators**

Dr. B .Kanimozhi  
Professor/Mathematics

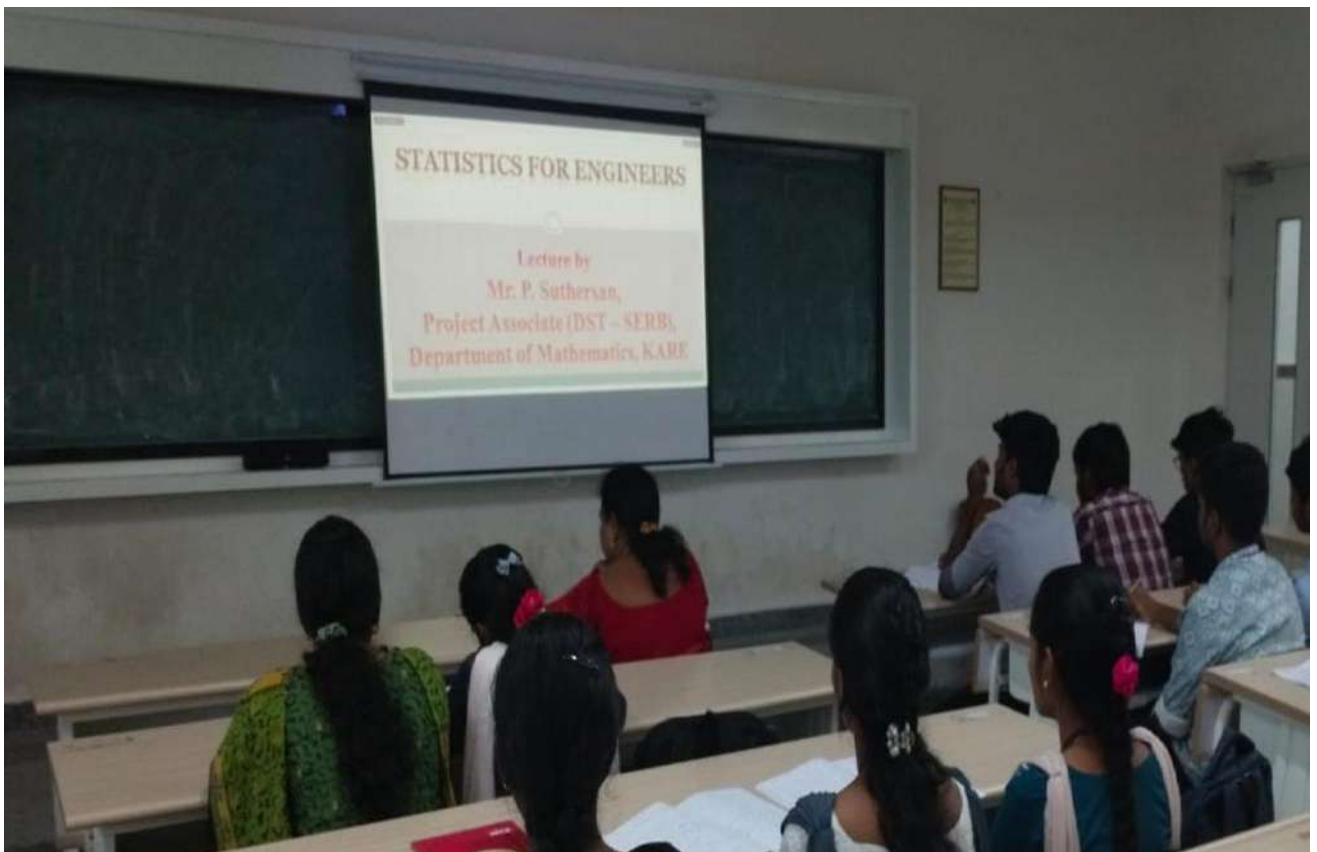
Dr. S. Rajakumar  
Professor/Mathematics

## PHOTO GALLERY

Dr.T.Gayathri Hod/Mathematics Welcomed the resource person Mr.P.Suthersan, (DST-SERB)Project Associate , Kalasalingam Deemed University, Krishnankoil.



Resource person shared his Knowledge about Statistics.



Our Third-year ECE students paid keen attention during the guest lecture.





Faculty attended the Programme along with the students.



**Dr. S. Rajakumar Professor/ Mathematics** has rendered the vote of thanks.



**Description of the event:**

The Guest Lecture Programme on "Statistics for Engineers" was organized by the Department of Mathematics, Sri Manakula Vinayagar Engineering College (SMVEC), Madagadipet, Puducherry, on August 10, 2024, for III-Year ECE students. The program began with a welcome note by Dr. T. Gayathri, Professor and Head, Department of Mathematics, SMVEC. She extended a warm welcome to the Resource Person, Mr. P. Suthersan, Project Associate (DST-SERB), Kalasalingam Deemed University, Krishnankoil.

Mr. Suthersan delivered an engaging and insightful lecture on "Statistics for Engineers," addressing emerging trends in the field of statistics. His talk comprehensively covered the applications of various statistical concepts including measures of dispersion, estimation theory, hypothesis testing, correlation and regression, and design of experiments in engineering.

At the conclusion of the program, Dr. S. Rajakumar, Professor of Mathematics at SMVEC, delivered the vote of thanks, expressing gratitude to the speaker and participants.



## SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

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MADAGADIPET, PUDUCHERRY - 605 107



### SMVEC/MATHS/MATHEMATICS Club Activity/2024-2025/7

This is to inform that the **Mathematics Club** has planned to conduct **Guest Lecture- Mathematics in Artificial Intelligence** for the Third-year students on **20.09.2024** (Friday). Students are asked to utilize the opportunity to enhance their knowledge.

S.No.	Name of the club	Date of inception	Name of the Coordinator	No. of student members	Objective of the club
1	Math club	20.09.2024	Mr. V. Vasanth	60	To enhance students' knowledge, analytical thinking, and competitive spirit by testing their understanding through an interactive quiz competition.

Total Number of Participants : 60

Year of students: II and III

Date: 20/09/2024

Venue : CSE Seminar Hall

Mode of Activity: Offline

Event Coordinator: Mr V. Vasanth

**Coordinator**  
Mr. V. Vasanth

**Chair Person**  
(Dr.T.Gayathri)

**Director cum Principal**  
(Dr.V.S.K.Venkatachalapathy)



**SRI MANAKULA VINAYAGAR**  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)



## DEPARTMENT OF MATHEMATICS

Organise

### GUEST LECTURE

**TOPIC : MATHEMATICS IN ARTIFICIAL INTELLIGENCE**

**DATE/TIME : 20 SEPTEMBER, 2024 / 3:30 PM**

**VENUE : NEW BLOCK, IV FLOOR,  
AIDS CLASS ROOM**



PHOTO GALLERY

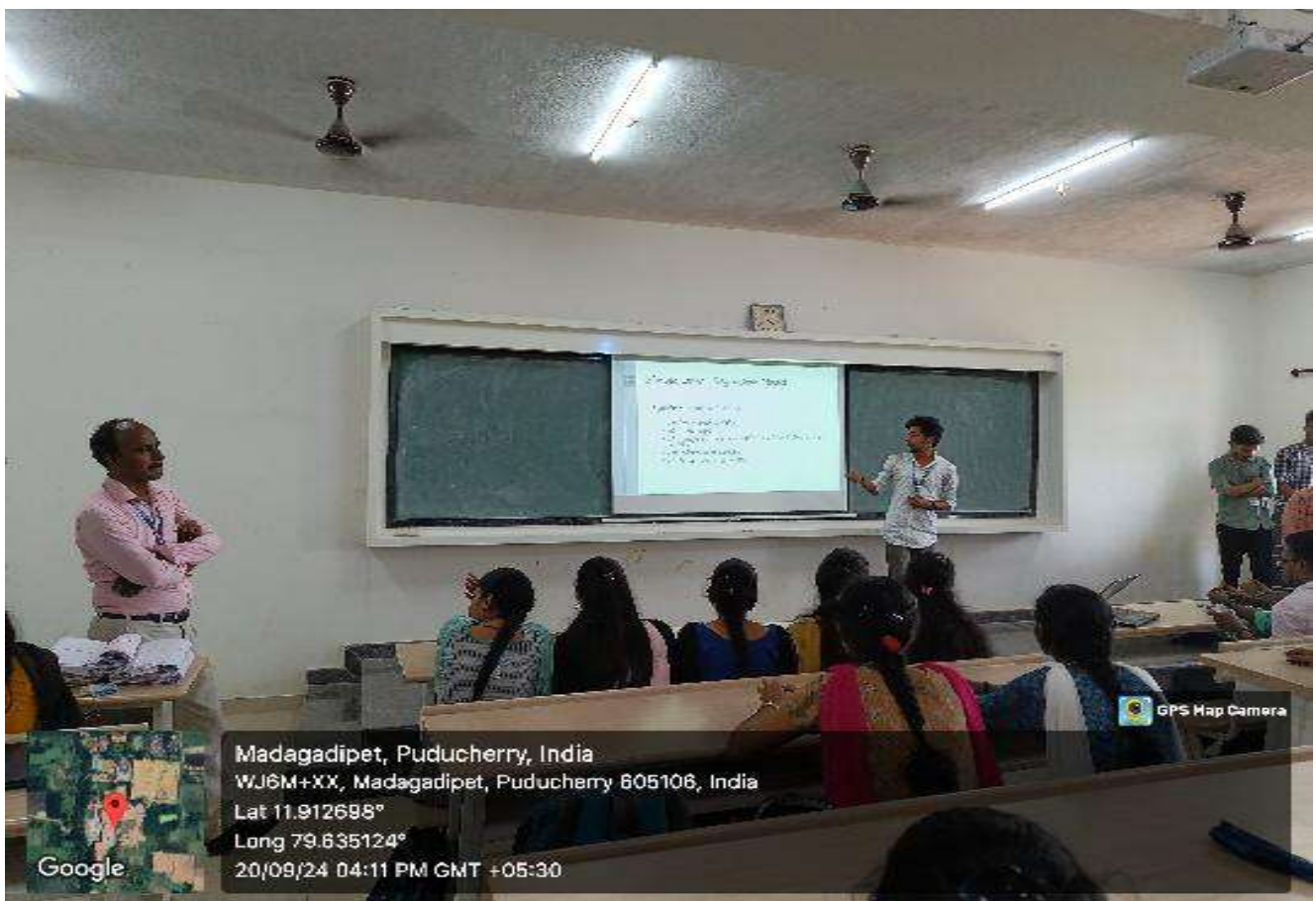
Mr. V.Vasanth , Assistant professor/ Maths, welcome the first year students



Third year students shared their knowledge about Mathematics in AI.







Our First-year AI&DS students paid keen attention during the guest lecture



## Description of the event

On September 20, 2024, the SMVEC Mathematics Club hosted a guest lecture titled “Mathematics in Artificial Intelligence” for first-year students, organized by Mr. V. Vasanth Assistant Professor in Mathematics. The event featured engaging presentations from third-year students on topics like linear regression, backpropagation, reinforcement learning, K-nearest neighbors, and the foundations of intelligent systems. Each presentation highlighted essential mathematical concepts and their applications in AI. The event concluded with a vote of thanks and E-certificates for participants, enhancing students' understanding of the role of mathematics in AI and inspiring them to explore this exciting field further.



**Coordinator**  
Mr. V. Vasanth



**Chair Person**  
(Dr. T. Gayathri)



**Director cum Principal**  
(Dr. V.S.K. Venkatachalapathy)