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## Webinar on "Importance of Mathematics in Engineering- A Bird's eye view"- Reg

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HOD IT <hodit@svce.ac.in>

Wed, Apr 28, 2021 at 11:54 PM

To: Principal SVCE <principal@svce.ac.in>, HODs Group <hod@svce.ac.in>, Faculty Group <svcefaculty@svce.ac.in>

Dear Sir/Madam,

We, the Association of Information Technologists(AIT) is happily inviting you all for the webinar titled " Importance of Mathematics in Engineering- A Bird's eye view " to be held on 29/04/2021.

[Quoted text hidden]

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 **AIT invitation 28-4-21.pdf**  
64K



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# SVCE

Sri Venkateswara  
College of  
Engineering



35 Years of Excellence

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ASSOCIATION OF INFORMATION TECHNOLOGISTS**

**Webinar**

**on**

**Importance of Mathematics in Engineering- A Bird's eye view**

**Dated: 29.04.2021**

**A REPORT**

*Submitted to principal*  
*[Signature]*  
*21/04/21*

svce.ac.in



*Kanishk*  
*27/10/21*

**SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)  
PENNALUR, SRIPERUMBUDUR-602117  
(An Autonomous Institution)**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**WEBINAR REPORT ON IMPORTANCE OF MATHEMATICS IN ENGINEERING - A BIRD'S  
EYE VIEW**

**SPEAKER: Dr.T.N.Shanmugam, Former Professor , Department of Mathematics, Anna University,  
Chennai.**

**Dates: 29/04/2021 (Online mode)**

**Time: 10.30 AM TO 12.00 PM**

**Objectives**

The objectives of the webinar are to gain knowledge on how mathematics is important in different domains, to highlight the importance of mathematics in engineering, and to understand the importance of mathematical models in various research domains.

**About the programme**

About 160 participants attended the webinar out of which 15 faculty from SVCE participated in the programme. The programme highlighted how mathematics is applied in different domains, Dr.T.N.Shanmugam, the former professor, Department of Mathematics, Anna University delivered the session. He highlighted the wonders of the mathematical world, mathematics in the movement of ant, mathematics of shock absorbers, mathematics in cricket, mathematics behind the caller ID in a mobile phone. Finally, he highlighted the importance of mathematics in network security, mathematics behind cryptography and steganography. Also, he highlighted the mathematics involved in covid 19 spread inside a body through the nose.

**Benefits**

Participants were benefited and gained knowledge on,

1. The importance of mathematics in engineering,
2. How mathematics is applied in different research fields.

Total Number of Participants : 160

  
**COORDINATORS**

Ms.D.Jayanthi, Assistant Prof. , Dept. of Information Technology, SVCE.

Mr. V.Rajaram, Assistant Prof., Dept. of Information Technology, SVCE.

  
15/04/21



# SVCE

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## ASSOCIATION OF INFORMATION TECHNOLOGISTS

solicit your esteemed presence for the

Webinar on

Importance of Mathematics in Engineering- A Bird's eye view

by

**Dr. T.N. Shanmugam**

Former Professor,  
Department of Mathematics,  
Anna University

<b>Venue:</b>	<b>Online Mode</b>
<b>Date:</b>	<b>29.04.2021</b>
<b>Time:</b>	<b>10.30AM to 11.30AM</b>





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# SVCE

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## AGENDA

**DATE : 29.04.2021**

**TIME : 10.30 AM**

**VENUE : Online Mode (<https://meet.google.com/vtm-iizs-bgi>)**

- Prayer Song
- Welcome address
- Introduction of Chief Guest
- Short note by HOD
- Special Talk by resource person
- Vote of Thanks

### Faculty Coordinators

Ms D Jayanthi AP/INT

Ms N Devi AP/INT

Ms P Leela Rani AP/INT

Mr A R Guru Gokul AP/INT

### AIT Coordinators

Dr. V.M. Sivagami, ASP/INT

Mr. V. Rajaram, AP/INT



## About ... Dr. T.N.Shanmugam

**Former Professor of Mathematics**

**Founder Director , Centre for intellectual Property Rights**

**Founder Dean , University College of Engineering Kanchipuram**

**Anna University**



Professor Dr. Tirunelveli Nellaiappan Shanmugam , from a remote village Marandai Pudur in the Tirunelveli district of Tamizh Nadu was born on 25th May 1955, was a faculty member in the Department of Mathematics of Anna University . As a Mathematics professor he has over 130 + research publication in various reputed National and international Journals and supervised 7 Students and Co supervised 2 PhD thesis in Mathematics (Complex function theory)

and one in the Computer Science. He has also travelled and Lectured on Mathematics Nationally and Internationally. To Quote a few , **Universities in Japan, Singapore, South Korea , Egypt, USA, Sultanate of Oman, Germany, and France. He has Mathematics Research Collaborators in Japan, Malaysia , Norway, South Korea and USA.** His main research interests are Geometric function theory a branch of Complex Analysis. He is also a renowned Quiz Master in Mathematics.

He along with his students wrote a Book on Discrete Mathematics and an Engineering Mathematics books for Tamizh Medium Engineering students.

He was also a co ordinator of the Video technology centre of Anna University (Now merged with the Media Science department of Anna University ) and developed a curriculum for teaching Film editing using AVID and FINAL CUTPRO software and trained many students , with the help some of the academically inclined Film personalities, who are now in the Film and Advertising world. As a co ordinator of the Video technology program he had produced on behalf of Anna University two



documentary film Viz., **(i) The use of Internet technology for the Rural people and (ii) On the Hon'ble Former President of India Prof. Abdul Kalam - his life and works at Anna University.**

On 24th November 2008 he was offered the position of the Chief investigator of a 150 Lakhs project entitled , Creating awareness On E& I patents - given by the Ministry of Communication and information Technology . Through that project he conducted many awareness program on IPR for the Budding Engineers and brought out a publication **“The what , why and How of an Intellectual property Rights” both in English and Tamizh** for the benefit of the student communities. Also he brought out a three volumes of Glimpses of Patents awarded in the area of Electronics and Information Technology area. At the end of the project with the help of the Anna university funding he established the Centre for intellectual Property Rights. The Centre's activities are (i) assisting the inventors in searching for the patents awarded (ii) Patent drafting (iii) Patent filing and (iv) conducting an awareness program. Under his leadership, the CIPR, Anna University had filed over 105 patent applications. He had Lectured and still Lecturing in Tamil Nadu and other states and addressed young students particularly the III year Engineering students kindling their innovative ideas so as to be a future innovators of India.

Apart from participating in the IPR related activities Nationally, in the year 2012 he delivered an invited lecture on “ வியா பாரத்தை மேம்படுத்துவதில் அறிவு சார் சொத்துரிமையின் பங்கு ” in the 2nd World Tamil Economics conference held in Dubai, UAE under the chairmanship of Former Supreme Court Justice (Late) A.R. Lakshmanan . In an international conference “ Management of Intellectual Property rights and Strategy held at IIT , Mumbai between January 30th - Feb 2, 2014 he chaired a session on Patent Information & Decision Strategy.

He was also the **Founder Dean** of the University College of Engineering Kanchipuram, a constituent college of Anna University, Chennai and is instrumental , as a first Dean of this College , for its overall development of the infrastructural facilities of the college.

**After his superannuation, in the year 2015, from Anna University**

1. **He worked as a Visiting professor in the National Institute of Technology, Nagaland and established the IPR Cell** apart from teaching courses for M.Sc ( Data Analytics)
2. He still travels to lecture on Mathematics, Intellectual property Rights, Internet of things, motivating the students in learning Mathematics across Tamil Nadu and also in other countries.
3. **He was one of a domain expert appointed by the Government of Tamizh Nadu for the recently revised higher Secondary Mathematics Book .**
4. Presently he is the Honorary secretary of the 87 year old school CD Nayagam T Nagar Higher Secondary school. A school with a large play ground for students in Chennai's busiest area , which does not charge any fees from the students.
5. During the corona lock down time he took up the on line platform to do the lectures.
6. He writes frequently articles in **“Dinamalar PaTTAM “** in Tamil for the School students.
7. He also has literary interest because of that penned under a pen name சேந்தனமுதன் - several poems and released a book entitled “என் பார்வையில் “ - தமிழ் கவிதைத்தொகுப்பு.
8. Recently, during the corona lock down he published three books as an Amazon Kindle version . entitled
  1. “ சேந்தனமுதனின் தவித கவிதைகள் “
  2. “ சேந்தனமுதனின் கொரோனா கால கோலங்களும் கணிதமும் “
  3. “ சேந்தனமுதக்குறள்”

**He may be contacted through**

**E-mail: [drtns2008@gmail.com](mailto:drtns2008@gmail.com)**

**Face Book: Tirunelveli Nellaiappan Shanmugam (<https://www.facebook.com/profile.php?id=100000141023346>)**

**Mobile & WhatsApp : + 9952046730**



# Online Presentation

Importance of Mathematics in Engineering- A Bird's eye view (2021-04-28 at 21:59 GMT-7)



Ant colony optimisation algorithm (ACO) is a probabilistic technique for solving computational problems which can be reduced to finding **good paths through graphs. ...**



Talk delivered on "Importance of Mathematics in Engineering" during motivational course w

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## Presentation by Chief Guest

Importance of Mathematics in Engineering- A Bird's eye view (2021-04-28 at 21:59 GMT-7)

**My thanks to**  
**Dr. V. Vidya , Professor & Head**  
**Ms. D. Jayanthi, Asst. Professor**  
**of the IT Department**  
**And**  
**Prof. A. Gangadharan ,**  
**My Mathematics teacher and**  
**former HOD of Mathematics**  
**Sri Venkateswara College of Engineering, Pennaththur**  
**For the invitation extended to speak before you**

Talk delivered on "Importance of Mathematics in Engineering" during motivational course w

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Feed back: Importance of Mathematics in Engineering - A bird's eye view (Responses)

Email Address	Register Number	Name	Year	How satisfied were you with the event?	How satisfied were you with the session content?	Suggest some topics for the upcoming events.	Any additional comments?
2020t0578@svce.ac.in	200801034	Harshavardhini G	I	5	5	nil	nil
2020t0136@svce.ac.in	200801042	KARTHIKEYAN E	I	5	5	cyber security and its importance	
sraji@svce.ac.in		Rajalakshmi S	Faculty	5	5	Mathematical Modeling	Excellent Speech
2020t0457@svce.ac.in	200801099	VASSANTHA S	I	5	5	IT tech oriented topics	
2020t0600@svce.ac.in	200801049	Lekhashree Rajesh	I	5	5	nil	nil
roshaansaihya@gmail.com	200801072	ROSHAAN S	I	5	5	No suggestions	
2020t0605@svce.ac.in	200801046	KIRAN KUMAR B	I	4	4	NO COMMENTS	NO COMMENTS
2020t0109@SVCE.AC.IN	200801071	ROHETH S	I	5	5	FUTURE OF IT	
2020t0564@svce.ac.in	200801039	Jishnu H J	I	5	5	Regarding cyber security	
2020t0788@svce.ac.in	20001019	CHANDRASEKAR V	I	5	5	no suggestions	no
2020t0632@svce.ac.in	200801060	Nithish balaji .s	I	5	5	Personal development	Nothing
2020t0100@svce.ac.in	200801003	Aakash S	I	4	4	Topics like image processing , deep learning ,etc..	None
2020t0134@svce.ac.in	200801081	Sharan S	I	4	4	Stenography	Good session looking up for the upcoming sessions
2020t0809@svce.ac.in	200801066	Pujasankari R	I	5	5	Nil	Nil
audhithiyah2002@gmail.com	200801014	Audhithiyah	I	4	4	None	
2020t0617@svce.ac.in	200801088	S.Sundaram	I	4	4	Maths in Daily life	No
2020t0088@svce.ac.in	200801070	B.Rithika	I	5	5	Nil	
vishasubbu@svce.ac.in	7904663554	Visalakshi Subramanian	Faculty	5	5	Excellent	
2020t0099@svce.ac.in	200801040	Kamalesh S	I	5	4	Nil	Nil
2020t0842@svce.ac.in	200801058	NAVINRAJ RS	I	4	4	Core Topics of IT and Lot about Entrepreneurship and Marketing	Good Session Learnt a lot
2020t0083@svce.ac.in	200801012	ARAVIND J	I	5	5	no idea	none
2020t0086@svce.ac.in	200801083	SIVA E	I	4	4	Nothing	
vijayashree64@gmail.com	200801101	Vijayashree K	I	5	5	Social media	Excellent
2020t0616@svce.ac.in	200801055	mohammed sakeeb mh	I	5	5	space and its mystery	nothing
2020t0644@svce.ac.in	200801047	krithik sai prasad.p	I	4	4	nil	no comments
2020t0850@svce.ac.in	200801028	Gayathri N	I	5	5	About computer	Nothing
2020t0570@svce.ac.in	200801054	MEGHAVARSHINI K	I	4	4	NIL	NIL
2020t0538@svce.ac.in	200801038	Jerunez J	I	4	5	Technologies!	
2020t0651@SCE.AC.IN	200801091	SWAMYNATH S	I	5	5	PHYSICAL CLASSES	
2020t0834@svce.ac.in	8220533031	Varun M	I	5	5	programming language	
272995harish@gmail.com	200801031	Harish Kumar P	I	5	5	HTML & CSS	-
2020t0126@svce.ac.in	200801026	Faiheen Ali	I	5	5	Cyber security	
2020t0896@svce.ac.in	200801048	Krithika S	I	5	5	no topics sir	no comments sir
2020t0577@svce.ac.in	200801022	Deepak J	I	4	5	Cryptography and cyber security	none
2020t0092@svce.ac.in	200801106	Yuheshwar K S	I	4	4	Importance of engineering in daily life	nil
madhavanbalaji02@gmail.com	200801050	B.Madhavan	I	5	5	computer techniques inspired from real life.	
2020t0851@svce.ac.in	200801063	Prathiba P	I	4	4	CALCULUS	no comments
2020t0037@svce.ac.in	200801057	NAGARAJAN E	I	5	4	Make sure you hold the audience interest.	
2020t0111@svce.ac.in	200801052	MAHALAKSHMI SOMASUNDARAM	I	5	5	cyber security	
2020t0104@svce.ac.in	200801056	MYTHRAM	I	5	5	importance of physical education	
2020t0083@svce.ac.in	200801012	Aravind J	I	5	5	No idea	None
2020t0545@SVCE.AC.IN	200801061	PAVITHRA V	I	5	4	Differential	No
2020t0612@SVCE.AC.IN	200801073	Sahana S	I	5	5	STRENGTH OF YOUNGSTERS	
2020t0101@svce.ac.in	200801097	Varun Prasadd S D	I	5	5	Mathematics involved in trading and stock market	
2020t0162@svce.ac.in	200801059	Navina G	I	5	5	Nil	Nil
2020t0127@svce.ac.in	200801053	Megha varsha S	I	5	5	Quaternions	-
2020t0143@svce.ac.in	200801008	AKASH M	I	5	5	A session related to Cyber Security and AI	This session was informative and good
2020t0614@svce.ac.in	200801004	Abishek KS	I	5	5	Regarding high spread for covid in India and what is the reason for that.	
2020t0628@svce.ac.in	200801062	PRANAV S	I	4	4	Event on various job offers	
2020t0641@svce.ac.in	200801045	KEERTHANAR	I	4	5	Artificial Intelligence	
2020t0087@gmail.com	200801082	Shreya R	I	4	4	Something based on Coding	
2020t0097@svce.ac.in	200801087	SRIRAM V	I	4	5	How to research in depth and learn from a particular topic	
2020t0163@svce.ac.in	200801092	SWETHA.S	I	3	3	Experience	No comments
2020t0150@svce.ac.in	200801074	Sandhya s	I	5	5		
2020t0147@svce.ac.in	200801080	Saranya	I	5	5		
balamadhuneha@gmail.com	200801051	B.Madhumitha	I	5	5	Importance of AI	No comments
2020t0353@svce.ac.in	200801102	Vijayalakshmi A	I	4	2	-	-
2020t0348@svce.ac.in	200801079	Sarankumar. S	I	5	5	Social media	Nothing

Feed back: Importance of Mathematics in Engineering - A bird's eye view (Responses)

Email Address	Register Number	Name	Year	How satisfied were you with the event?	How satisfied were you with the session content?	Suggest some topics for the upcoming events.	Any additional comments?
2019i0026@svce.ac.in	190801077	SNEHA M	II	5	5	Exploratory Data Analysis(EDA)	
2020i0113@svce.ac.in	200801007	Aishwarya S	I	5	5	Mathematics in Cyber Security and Scope of mathematics in Research field	The cryptographic methods which Sir taught was new to me. It has instilled in me the curiosity to search for related topics and learn more. Thank you Sir.
2020i0157@svce.ac.in		Syed Mohideen Afridi M	I	5	5	Mathematics in real and virtual life.	
2020i0832@svce.ac.in	200801085	A.SRI SHAKTHI	I	5	5	Climate change awareness	The session was interesting
2020i0563@svce.ac.in	200801018	BOLLINENI MANOGNA	I	5	5	IMPORTANCE OF INTERNSHIPS AND INDUSTRIAL PROJECTS	
2020i0651@svce.ac.in	200801025	N. DURGA	I	5	5	something about world earth day	no comments
2020i0557@svce.ac.in	200801076	Santhasbherathi P	I	5	5	Decision in IT	
2020i0161@svce.ac.in	200801086	srijan kumar	I	5	5	importance of physics in life	no
2020i0237@svce.ac.in	200801064	Prathiba M	I	5	5	About planes	Encoding decoding topic was very useful
2020i0215@svce.ac.in	200801068	Ranjan Tib	I	4	4	-	
2020i0814@svce.ac.in	200801104	Yogendra Kumar A.K.M	I	4	4	Environmental	
2020i0035@svce.ac.in	200801084	SIVADHAS S	I	4	4	Public awarness	No
2020i0849@svce.ac.in	200801100	Vijay.k	I	5	5		
2020i0639@svce.ac.in	200801095	Udhaya dhanshini V	I	4	5	Any interesting topics	
2020i0574@svce.ac.in	200801021	Deepa rekha	I	3	3	Job opportunities for IT students	
2020i0552@svce.ac.in	200801089	auriya khailesh rv	I	4	4		
santhoshsleave4@gmail.com	200801077	Santhosh K	I	5	5	-	Excellent
ranitha@svce.ac.in	1298	Dr R Anitha	Faculty	5	5	Yes, Very well appreciated in future	
2020i0639@svce.ac.in	200801095	Udhaya dhanshini V	I	4	5	Any interesting topics	

  
COORDINATORS

  
 15/01/21

HOD INT