Name: Mr. K. SANKAR	**Photo**
Designation:	**ASSOCIATE PROFESSOR**
Qualification:	M.SC., M.Phil., (Ph.D), SET Qualified
Area of specialization:	Graph Theory

Experience:	Industrial Experience	Teaching Experience
	Nil	**18 years**

Number of workshops / FDP attended:	Number of Workshops	Number of FDPs
	6	**17**

Publications:	Conference		Journal	
	National	**International**	**National**	**International**
			4	

Books / Book Chapters	**Nil**	
Patents:	**National**	**International**
	3	Nil

Professional Body Membership	Life Member of ISTE, Member of IEEE
Staff Achievements	Recognised as an 'NPTEL STAR' by NPTEL, Got cash award and appreciation certificate for producing good results in current and previously worked institutions.

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	Mathematics	2003	Ayya Nadar Janaki Ammal College	Madurai Kamaraj University	71.71%	First
PG	M.Sc.	Mathematics	2005	Ayya Nadar Janaki Ammal College	Madurai Kamaraj University	78.13%	First class with Distinction
	M.Phil.	Mathematics	2006	Ayya Nadar Janaki Ammal College	Madurai Kamaraj University	79.4%	First class with Distinction
	Ph.D	Graph Theory	Pursuing	SSN College of Engineering	Anna University		

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College	**Associate Professor**	01.09.2024	Till Date	1	2	11
Sri Sairam Engineering College	**Assistant Professor**	02.06.2014	31.08.2024	10	3	-
SNS College of Technology, Coimbatore	**Assistant Professor**	27.02.2012	09.05.2014	2	2	12
PGP College of Arts & Science, Namakkal.	**Lecturer**	01.08.2006	31.03.2011	4	8	-
Total				**18**	**3**	**22**

Workshops/Seminars attended:

1. Participated One week Online Workshop on Unlock Data Analytics with Mathematics and Python held from June 10 to 15, 2024.
2. **International workshop on Graph Algorithm and Advances in Graph Labeling** organized by the Department of Mathematics, SSN College of Engineering during 13-14 December 2023.
3. One Day online workshop on **"Workshop on Graph Theory using Python"** organized by **VIT, Chennai** during September 3, 2022.

4. **National Workshop on Networking and Multiprocessing System Design** held during 04-06 March2021 organized by the Department of Mathematics, SSN College of Engineering, Chennai.
5. **Research Practices on Topics in Mathematics and Computer Science** organized by the Department of Mathematics, Madras Christian College, Chennai during August 7-8, 2014

FDP/STTP Attended:

1. A 5-Day Faculty Development Programme on "Advances in Graph Theory and Linear Algebra (AGTLA)" organized by Department of Mathematics, School of Advanced Sciences (SAS), VIT-AP University, India, from 1st to 5th October 2024.
1. A Five day online FDP on Discrete Mathematics, organized by the Department of Mathematics, School of Advanced Studies, VIT, Vellore during 13 - 17 June,2023.
2. A Five day online FDP on Applied Graph Theory, organized by the Department of Mathematics, School of Advanced Studies, VIT, Vellore during 19 - 23 June,2023.
3. One Week International Faculty Development Programme on **"Innovative Mathematical Techniques in Research"** conducted by Sathyabama Institute of Science and Technology, Chennai from 1st to 6th August ,2022.
4. Five day Faculty Development Program on "**Research Methodology and Effective Tools for Academic and Research Documentation"** held during March 07 – 11,2022 organised by the Department of Mathematics,SSN College of Engineering, Chennai.
5. One week Online Training Program on "**NITTT Orientation Training programming"** conducted by National Institute of Technical Teachers Training and Research, Chennai from 05.07.2021 to 09.07.2021.
6. One week (Online) Interdisciplinary Faculty Development Programme on "**Graph Theory and its Applications**" from 15th September – 21st September, 2021 organised by Deshbandhu College, University of Delhi.
7. Online FDP on "**Digital Teaching Techniques**" from 29.06.2020 to 04.07.2020 by ICT Academy.
8. Attended online FDP on "**NBA and NAAC Accreditation Process**" from 04.06.2020 to 08.06.2020 at M.S. Ramaiah Institute of Technology, Bangaluru.
9. Attended Online FDP on "**Mathematics-A key Technology**" on 29.05.2020 at Kings College of Engineering.
10. Attended Online FDP on "**Teaching Techniques of Engineering Mathematics through online Tool**" on 27.05.2020 at SNS College of Technology, Coimbatore.
11. Attended "**Online FDP on MA8551 Algebra and Number Theory**" on 27.05.2020 at Ramco Institute of Technology, Rajapalayam.
12. "**Graph Theory**" conducted by NPTEL during January – March 2019.
13. "**Introduction to Abstract and Linear Algebra**" conducted by NPTEL during August – October 2018.
14. Attended one week FDP on "**Modern Algebra**" conducted by NPTEL during August – October 2021.
15**. "Discrete Mathematics and Graph Theory"** conducted by KCG college of Technology, Chennai during 30th June & 1st July 2016.
16. **"Bridge Course on Mathematics"** conducted by Anna University Chennai during 26th & 27th June 2015. Symposium Attended: Nil

Conference Attended:

1. **International conference on Graphs, Networks and Combinatorics (ICGNC 2023)** organized by the Department of Mathematics, Ramanujan College, University of Delhi from 10 - 12 January 2023.
2. International conference on "**Recent Advancements in Graph Theory (ICRAGT – 2022)"** organized by Department of Mathematics, Gujarat University September 10 – 11,2022.
3. **International conference on Graph Theory and its applications** organized by the Department of

Mathematics, SSN College of Engineering, Chennai, during November 20 – 21, 2019.

4. **International conference on Theoretical computer science and Discrete Mathematics** organized by the Department of Mathematics, SSN College of Engineering, Chennai during December 03 – 05, 2018.

Conference Presented:

1. Presented Paper in "**International Conference on Theoretical Computer Science and Discrete Mathematics (Virtual)**" organized by the Department of Mathematics, SSN College of Engineering, Chennai during 02-04, December 2021.
2. Presented Paper in "**International Conference (virtual) on Rough Set Theory and Mathematical Applications (ICRSMA'21)**" organized by the Department of Mathematics, SSN College of Engineering, Chennai during 08-09, January 2021.

Completed / Ongoing Projects: Nil

Patent:

1. Development of scalable Graph Theory Algorithms for Large-Scale Network Analysis Using AI, Published on 02.01.2026.

2. Mathematical Modelling of Bubbly Flow Surface Interactions in Multiphase Systems, Published on 10.06.2023.
3. A method of Labelling of one modulo three mean graphs, published on 30.12.2022.

Journal Publications:

1. S.Sampath Kumar and K.Sankar, "**Resolvable Odd Cycle Factorization of Tensor Product of Complete Graphs**", Indian Journal of Natural Sciences, Vol.14/Issue 80/October/2023, Page No. 63887-63893.
2. S.Sampath Kumar and K.Sankar, "**Large sets of Wrapped Hamilton Cycle Decompositions of Blown up Cycles** $C_m[\underline{K_n}]$", Indian Journal of Natural Sciences, Vol.12/Issue 65/April/2021, Page No. 30251-30254.
3. M Kannan, M Sathiragavan, P Nivetha, K Sankar, J Gujar, Graph Coloring Techniques in Scheduling and Resource Allocation Vol. 15, issue 2, No.3: 2024
4. Avudainayaki, R., Thenmozhi, B., Sankar, K., Sindhu, M., Magibalan, S., & Ganesh, A. D.,"**Graph Theory and Computational Approaches in Ecosystem Interaction Networks", Asian Journal of Pure and Applied Mathematics, Volume 8, Year 2026, Pages 67-78**

Books / Book Chapters : -

Awards : Received the "**Best Professor Award**" from Wisdom Path Foundation for excellence in teaching (2025)

Startup : -

Webinar :

1. Participated in One Day National Webinar on "Research Methodology" sponsored by Department of Higher Education (MP) and organized by the Government Degree College Timarni (MP) held on MAY 31, 2024.
2. Attended webinar on "Semi Graphs and Virus Graphs" on 31.05.2020 at Cauvery college for women.
3. Attended webinar on "Recent Research Directions in Distance in Graphs" on 28.05.2020 at Ayya Nadar Janaki Ammal College, Sivakasi.
4. Attended webinar on "Algebraic Graph Theory" held on 01.06.2020 at GOVERNMENT ARTS COLLEGE FOR MEN, Nandanam, Chennai.
5. Attended "One day National Webinar on Graph Theory" on 12.06.2020 at Govt. Arts college, Chidambaram.
6. Attended webinar on "Mathematical models in Bio-Medical Applications" on 03.60.2020 at Rohini college of Engg. & Tech. Kanyakumari.
7. Attended webinar on "CSIR Problems Solving Techniques in Algebra and Analysis" held on 17.06.2020 & 18.06.2020 at St. Joseph's College, Tiruchirappalli.

8. Attended "5-Day National webinar for Aspirants of CSIR (main) Mathematics" from 22.06.2020 to 26.02.2020 at AYYA NADAR JANAKI AMMAL COLLEGE, Sivakasi.

Resource Person: Nil

Online Courses:

1. Got an Elite certificate in NPEL online course on " Development Research Methods" funded by the Ministry of HRD, Government of India.
2. Got an certificate in NPEL online course on " Designing Learner-Centric E-learning in STEM Disciplines" funded by the Ministry of HRD, Government of India.
3. Got an Elite with silver certificate in NPEL online course on " Technical Communication for Engineers" funded by the Ministry of HRD, Government of India.
4. Got an Elite certificate in NPEL online course on " Ethics In Engineering Practice" funded by the Ministry of HRD, Government of India.
5. Got an Elite certificate in NPEL online course on " Teaching And Learning in Engineering (TALE)" funded by the Ministry of HRD, Government of India.
6. Got an Elite certificate in NPTEL Online Certification course on **"Accreditation and Outcome Based Learning"** funded by the Ministry of HRD, Government of India.
7. Completed **Module 1: Orientation towards Technical Education and curriculum Aspects** of NITTT
8. Completed **Module 2: Professional Ethics and Sustainability** of NITTT
9. Completed **Module 3:Communication Skills,Modes and Knowledge Dissemination** of NITTT
10. Completed **Module 4:Instructional Planning and Delivery** of NITTT
11. Completed **Module 5:Technology Enabled Learning and Life-Long Self Learning** of NITTT
12. Completed **Module 6: Student Assessment and Evaluation** of NITTT
13. Completed **Module 7: Creative Problem Solving, Innovation and Meaningful R & D** of NITTT
14. Completed **Module 8: Institutional Management and Administrative Procedures** of NITTT
15. Got Elite with Silver certificate in NPTEL Online Certification course on **"Graph Theory"** funded by the Ministry of HRD, Government of India.
16. Got an Elite with Gold certificate in NPTEL Online Certification course on **"Introduction to Abstract and Linear Algebra**" funded by the Ministry of HRD, Government of India.
17. Got an Elite certificate in NPTEL Online Certification course on **"Advanced Graph Theory"** funded by

the Ministry of HRD, Government of India.

18. Got "**COVID-19 What You Need to Know (CME Eligible)"** course certificate from OSMOSIS.org on 03.05.2020
19. Got "**Write Professional Emails in English**" course certificate from Georgia institute of Technology on 10.05.2020
20. Got "**Speak English Professionally: In person, Online & on the phone**" course certificate from Georgia institute of Technology on 18.05.2020.
21. Got "**Build Your Professional e-portfolio in English**" course certificate from Georgia institute of Technology on 26.05.2020.
22. Got "**Take your communication skills to the next level**" course certificate from Georgia institute of Technology on 04.06.2020.
23. Got "**Improve your English Communication Skills**" course certificate from Georgia institute of Technology on 04.06.2020.
24. Got "Build a Linear Layout App in Android Studio" course certificate from Coursera Project Network on 31.05.2020.

25. Got "Spread sheets for Beginners using Google Sheets" course certificate from Coursera Project Network on 02.06.2020.
26. Got "Create Informative Presentations with Google Slides" course certificate from Coursera Project Network on 11.06.2020.
27. Got "The Sustainable Development Goals – A global, transdisciplinary vision for the future" course certificate from UNIVERSITY OF COPENHAGEN on 04.07.2020.
28. Got "Statistics and R" course certificate from HarvardX on 19.07.2020.
29. Got an Course completion certificate in NPTEL Online Certification course on **"Modern Algebra"** funded by the Ministry of HRD, Government of India.

Certificate Courses:

1. Completed certificate course on "**Panchayat Administration and Rural Development Schemes**" offered by State Institute of Rural Development and Panchayat Raj.
2. Completed certificate course on "Social Emotional Education: Knowledge to Practice(SEEK)" offered by UNESCO MGIEP