Name: Dr. K. PARVATHAM	
Designation:	Professor
Qualification:	M.Sc., M.Phil., Ph.D.
Area of specialization:	Mathematical Biology

Experience:	Industrial Experience	Teaching Experience
	NIL	31

Number of workshops / FDP attended:	Number of Workshops	Number of FDPs
	10	22

Publications:	Conference		Journal	
	National	International	National	International
	4	3	2	1

Books / Book Chapters	Nil	

Patents:	National	International
	1	

Professional Body Membership	ISTE, IEEE
Staff Achievements	Produced 100% results, Certified change practitioner, certified internal auditor for EOMS.

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	1986	PSGR Krishnammal college for women, Coimbatore.	Bharathiyar University	70.1%	I
PG	M.Sc. M.Phil.	Mathematics Linear Algebra	1988 1990	Kongunadu Arts & Science college, Coimbatore. Annamalai University	Bharathiyar University Annamalai University	76.4% 78%	I I
Ph.D.		Mathematical Biology	2014		University of Madras	-	Highly commended

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience Years	Experience Months	Days
Sri Sairam Engineering College	Professor	02.01.2018	Till Date	7	0	0
Sri Sairam Engineering College	Associate Professor	01.09.2013	01.01.2018	4	4	-
Sri Sairam Engineering College	Assistant Professor	01.09.2008	31.08.2013	4	11	30
Sri Sairam Engineering College	Sr. Lecturer	01.06.2005	31.08.2008	3	2	30
Saveetha Engineering College	Sr. Lecturer	04.07.2002	31.05.2005	2	10	27
Velammal Engineering College	Lecturer	20.06.2001	29.03.2002	-	9	9
Vel Tech	Lecturer	25.11.1998	19.06.2001	2	6	24
Bhaktavatsalam Memorial College of Women	Lecturer	30.06.1994	24.11.1998	4	4	24
Muthayammal Polytechnic	Lecturer	06.11.1989	06.11.1990	1	-	-

Workshops/Seminars attended: 10/03

FDP/STTP Attended:22

Symposium Attended: 2

Conference Attended: 6

Completed / Ongoing Projects: Nil

Patent: One (published)

Journal Publications: 3

Books / Book Chapters: Nil

Awards: nil

Startup: nil

Webinar: 13

Resource Person: 7

Online Courses: 30

Journal Publications:

1. Paper titled "A review on Applications of Graph theory in Metabolic Networks", SSEC TECH JOURNAL, Volume11, 2019, ISSN 0975-2846.

2. Paper titled "Molecular Docking Studies of Acetate-Succinate CoA-Transferase of *Ascaris lumbricoides* with a few Phytochemicals and Anthelmintics", Journal of
   Computational Methods in Molecular Design, volume 5, issue 4, 2015, pp 1-10 ISSN No. 2231-3176.

3. Paper titled "Drug target prediction using elementary mode analysis in *Ascaris lumbricoides* energy metabolism", Biotechnology and Bioprocess Engineering, Volume18, issue3, June 2013, pp491-500.

4. Paper entitled "A mathematical approach to the Carbohydrate catabolism in *Ascaris lumbricoides"* Journal of Science and Technology, Volume 5, May 2012. ISSN No. 09746846.

Conference Publications:

1. Paper entitled "Mathematical Model of Enzyme Subsets in a Metabolic Network" has been published in the conference proceedings of the "WCC Centenary International Conference on viable Synergies in Mathematical and Natural Sciences" at WCC, held on 7- 9 January, 2016.

2. Paper entitled "Docking studies of andrographolide on phosphofructokinase of*Ascaris lumbricoides"*, Publishedin the proceeding of the 34th Annual Conference of Indian Association of Biomedical Scientists at

3. Dr. A.L.M. Post Graduate Institute of Basic
   Medical Sciences, University of Madras, Taramani Campus, Chennai, 27– 29, December 2013

4. Paper entitled "Elementary mode damage analysis on the carbohydrate catabolism model of the parasite *Ascaris lumbricoides*", published on the Conference proceedings of the "National symposium of the Indian Science congres Association, Chennai chapter on 17th and 18thDecember 2012 at CLRI, Chennai.

5. Paper entitled "Docking analysis of allin and allicin on phosphoenolpyruvate carboxykinase of *Ascaris lumbricoides"* published in the conference proceedings of the 33rd Annual Conference of Indian Association of Biomedical Scientists and International symposium, at Nitte University, Mangalore on 1-3 November 2012.

6. Paper entitled "A Computational Systems biology approach to the Energy metabolism of
   *Ascaris lumbricoides"*published in the Conference proceedings of the International
   Conference on "Holistic approaches for combating anthelminthic resistance- An update in Parasitology", Madras Veterinary College, TANUVAS, Chennai, 26-27 March 2012.

7. Paper entitled "An application of Linear Algebra in Biological Networks" published in the Conference proceedings of the "Second National Conference on Mathematical modeling in Global perspective" at Velammal Engineering College, Chennai, 19th February 2010.

Workshops Attended:

1. Online Workshop on "Sustainability and Engineering Education "VIT, Chennai campus, on 07-05-2021.
2. Online Workshop on" Universal Human values" from 05-10-2020 to 09-10-2021 by AICTE.
3. Internal auditor training on Quality management system and audit training at Sri Sairam engineering college on 8th June 2018

4. Workshop on "Advances in Applied Engineering Mathematics" at SSN College of Engineering, 4th and 5thSeptember, 2015.

5. III workshop on "Scientific and Medical writing" organized by The TamilNadu Dr.
   M.G.R. Medical University, 2nd March 2012.

6. Workshop on "Quantitative Analysis and Modeling in Animal Sciences (QAMAS)", Sponsored by DST at YASHADA, Pune, October 6 -11, 2009.

7. Workshop on "Recent Trends in Applied Mathematics" at Jerusalem College of Engineering, 3-11-2006.

8. Technical workshop on " Management System Auditing for ISO 19011:2018" by Bureau Veritas 17-18. 2022

9. Workshop on National Education Policy 2020 – Technology Integration – Scrollwell academy, March 12, 2024.

FDP attended:

1. NEP 2020 Orientation & Sensitization Programme (An Initiative for Quality Enhancement in Teaching-Learning & Research) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Kurukshetra University, Kurukshetra from 20-05-2024 to 01-06-2024.
2. Online 14 days national level faculty development programme on "Innovative teaching strategies and tools in the digital age" 01-01-2024 to 14-02-2024 by Scrollwell academy

3. Online ATAL FDP on "NEP-2020 Managing change in organisations", by Government College of Pharmacy, Karad, 20-09-2021 to 24-09-2021.
4. Online FDP on "Leadership: An Essential Employability Skill for the 21st Century" by Rajkiya Engineering College, Mainpuri, India, from Sep 6-10, 2021.
5. online ATAL FDP on "Sustainable Change Management in Technical Institutes for NEP – 2020 Implementation" by Government Engineering College, Bilaspur, from 23-08-2021 to 27-08-2021.
6. Online ATAL FDP on Computational Synthetic and systems Biology, IIT, Guwahati, from 26.07.2021 to 30.07. 2021
7. Online ATAL FDP on "Blended Learning and Flipped Classroom", VIT, Vellore, from 18-01-2021 to 22-01-2021.
8. Online ATAL FDP on "Stress Management" by Maulana Azad National Urdu University Polytechnic Hyderabad from 02-11-2020 to 06-11-2020.
9. Online ATAL FDP on "Emotional Intelligence" , ST. MARTIN'S ENGINEERING COLLEGE. 21-9-2020 to 25-9-.2020
10. International online FDP on "Education 4.0, The future ahead", Sri Sairam College of Engineering, 10-08-2020 to 14-08-2020.
11. Online FDP on Mathematical Modelling in Multidisciplinary Domain Bannari Amman Institute of Technology, Sathya Mangalam, from 01-06-2020 to 07-06-2020

12. FDP on Innovation in Teaching Pedagogy at Sri Sai Ram Engineering College, Chennai
13. from 10th December to 14th December 2019

14. FDP on Outcome Based Education at Sri Sai Ram Engineering College 5th and 6th April 2019

15. Attended FDP on "Engineering Teaching Pedagogy and Teaching Learning Process" at Sri Sairam Engineering college during December 3-7, 2018

16. Participated in the "National Seminar on Digitization of Higher Education for Quality Enhancement of Teaching-Learning and Research: Challenges and Opportunities" at VIT Vellore during October 22-23, 2018.

17. Attended the Certificate course in Bioinformatics conducted during 22 -26 May, 2007 at AU-KBC Research Centre, MIT Campus of Anna University, Chennai.

18. Participated in "National Seminar on Bioinformatics" at Bharathidasan University, Tiruchirappalli during March 3-4, 2007.

19. Participated in National Seminar on "Computations in Bioinformatics" at Pondicherry University, Centre for Bioinformatics during Feb 14-16, 2007.

Online Courses Completed

1. NPTEL Course titled "Constrained and Unconstrained Optimization", July - October 2017.

2. NPTEL Course titled "Numerical Linear Algebra", January -April 2018.

3. NPTEL Course titled "Effective Engineering Teaching in Practice", January – April 2019.(FDP)

4. NPTEL Course titled "Teaching and Learning Engineering", January – April 2019.(FDP)

5. NPTEL Course titled "Teaching and Learning Engineering – II , July – September 2019.(FDP)

6. NPTEL Course titled "NBA Accreditation and Teaching -Learning in Engineering (NATE)" Jan 2020 to April 2020

7. NPTEL Course titled "Introduction to professional Scientific Communication, Jan 2021 to Feb 2021.

8. NPTEL Course titled "Qualitative Research Methods and Research writing" Jan 2021 to April 2021.

9. NPTEL Course titled "Educational leadership" Jul-Sep 2021

10. NPTEL Course titled "Ethics in Engineering Practice" Aug-Oct 2021

11. NPTEL Course titled" Introduction to Psychology" Jan-Mar 2022

12. NPTEL Course titled" Accreditation And Outcome Based Learning" Aug-Oct 2023

13. NPTEL Course titled " Outcome Based Pedagogic Principles For Effective Teaching" Feb-Mar 2024

14. Coursera titled "Spreadsheets for Beginners using Google Sheets" offered by Rhyme, 13-05-2020.

15. Course titled "Create your First Python Program" offered by Rhyme (Coursera), 13-05-2020.

16. Course titled "The Science of Well Being" offered by Yale University (Coursera), 17-05-2020.

17. Course titled "The Mathematics of Machine learning" offered by Imperial College of London (Coursera), 25-05-2020.

18. Course titled "Matrix Algebra for Engineers" offered by The Hong Kong University of Science and Technology (Coursera), 22-06-2020.

19. Course titled "Green BussinessStrategy" offered by The Hong Kong University of Science and Technology (Coursera), 27-06-2020.

20. Course titled "The Sustainable Development Goals – A global, transdisciplinary vision for the future" offered by University of Copenhagen (Coursera), 05-07-2020.

21. Course titled "Digital Teaching Techniques" (Certificate Course) offered by ICT academy 29 Jun 2020 to 04 Jul 2020.

22. Course titled "Statistics and R" offered by Harvard (EdX) 22-07-2020

NITTTR Modules Completed

1. *Successfully completed Module 3: Communication Skills, Modes and Knowledge Dissemination of National Initiative for Technical Teachers Training by AICTE in July 2022.*

2. *Successfully completed Module 4: Instructional Planning and Delivery of National Initiative for Technical Teachers Training by AICTE in July 2022.*

3. *Successfully completed Module 8: Institutional Management and Administrative Procedures of National Initiative for Technical Teachers Training by AICTE in February 2022.*

4. *Successfully completed Module 1: Orientation towards technical education and curriculum aspects of National Initiative for Technical Teachers Training by AICTE in February 2022.*

5. *Successfully completed Module 5: Technology enabled learning and Life –Long Self Learning of National Initiative for Technical Teachers Training by AICTE in February 2023.*

6. *Successfully completed Module 6: Student Assessment and Evaluation of National Initiative for Technical Teachers Training by AICTE in September 2021.*

7. *Successfully completed Module 7: Creative problem solving, Innovation and Meaningful R&D of National Initiative for Technical Teachers Training by AICTE in February 2023.*

8. *Successfully completed Module 2: Professional Ethics and Sustainability of National Initiative for Technical Teachers Training by AICTE in July 2022..*

Faculty Interaction with Outside World

1. Invited as a Keynote Speaker to "Vingnanam International Research Conference, 2018" (VIRC 2018) July 4, 2018 organized by the Faculty of Science, University of Jaffna, Sri Lanka and Co-organized by Ministry of Science, Technology, Research, Skill Development & Vocational Training and Kandyan Heritage, Sri Lanka .

2. Acting as an External Member of the Doctoral committee in respect of Ms. L. Meenatchi, School of Advanced Sciences – Maths, VIT Chennai campus.

3. Evaluator of Projects for National Children Science Congress - 2019 (A Programme of NCSTC, Govt. of India, New Delhi) at Arcot Sri Mahalakshmi Womens College, Arcot on 15-11-19 & 16-11-19

4. Interview Panel Member (Subject Expert) for Kendriya Vidyalaya Sangatan, HRD Ministry on 16-03-2020.

5. Conducted a Webinar on "Systems Biology- A Mathematical Approach" for CMS College of Science & Commerce, Coimbatore on 28-05-2020.

6. Conducted a Webinar on "Mathematical Modeling in Biological Networks" for Sri Malolan College of Arts & Science, Madurantakam on 18-06-2020

7. Resource person for the seminar (Physical mode) on " Implementation of NEP 2020" at Sri Sairam Engineering College on 19-03-2021.

Webinar Attended

1. Webinar on" Implementation of NEP 2020 in HEIs" by BS Adhur Rahman Crescent Institute of Science and Technology on 16-06-2021.

2. Webinar on" Enhancing Quality teaching strategies through OBE by Kongu Engineering College on 02-03-2021-and 03-03-2021.

3.   Webinar on" Quality Sustenance through online mode of education", Hindustan College of Engineering and Technology, Coimbatore, on 08-04-2021 and 09-04-2021.

4. . Webinar on "Revised Accreditation framework for Quality Enhancement in higher Educational Institutes" by Sri Sairam Engineering College, 14-07-2021 and 15-07-2021.

5. Webinar on "Teacher to Educational Leader" by Colombo Plan staff College, Mannila, Philippines on 23-04-2020.

6. Webinar on "The future of skills-Education, Employment and Entrepreneurship" by ICT academy on 13-05-2020.

7. Webinar on "NAAC Accreditation Management System – Demo" by inpods on   27-05-2020.

8. Webinar on "CO-PO attainment Computation and Outcome Analysis" by inpods on   01-06-2020.

9. Webinar on "Online Teaching Learning and Online Assessment Demo" by inpods on   04-06-2020.
10. Webinar on "Organising a literature Review" by VIT, Chennai on 03-06-2020.

11. Webinar on "R&D proposal writing for faculty" by Sri Sairam Engineering College on 12.06.2020.

12. Webinar on "Health Care Series – I" by Sri Sairam Engineering College on 04-07-2020.

13. Webinar on "Perspectives on Quality and Inclusion in Higher Education in the Light of Digital Learning" by IEEE Bhubaneswar Sub-section on 11-07-2020.