

CURRICULUM VITAE

Dr.S. Bhuma Devi

Qualification: M.Sc. B.Ed.M.Phil.,Ph,D.,

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Career Highlights

Appointed as a paper setter at Mumbai University.

Appointed as Joint CC at Mumbai University.

Appointed as Eco / Green club Coordinator at KCCEMSR

Teaching Experience

Institute / Organization	Position Held	Period of appointment
KCCEMSR	Assistant Professor.	7 Aug.2006-till date
Sri Ma Bal Niketan Thane (E)	Teacher	June 2003 to 5 Aug 2006
R.A.D.A.V Bandup (E)	Teacher	Aug 2002 to May 2003
Tamil Nadu PolyTechnic, Madurai	Lecturer	Aug 1998 to May 1999
Don Bosco School Dombivli (W)	Teacher	Jan 1998 to May 1998
Meenakshi Matriculation Hr.Sec. School, Madurai	Teacher	June 1996 to April 1997

Qualification

Degree	College / School	University/ Board	Year of passing	Class
P.hd	Banasthali Vidyabit	Banasthali Vidyapith	21 Feb 2026	As per the University Norms
M. Phil. Mathematics	Madurai Kamaraj University	Madurai Kamaraj University	2000	Second
B. Ed. (Mathematics & English)	Madurai Kamaraj University	Madurai Kamaraj University	1996	First
M. Sc. (Mathematics)	Lady Doak College, Madurai	Madurai Kamaraj University	1995	First
B. Sc. (Special Maths)	Lady Doak College, Madurai	Madurai Kamaraj University	1993	First
H. S. C.	Capron Hall Hr. Sec. School, TM	Tamil Nadu board	1990	First
S. S. C.	Capron Hall Hr. Sec. School, TM	Tamil Nadu board	1988	Distinction

ORGANIZATIONAL EXPERIENCE: -

1. Currently working as an **Assistant Professor in Applied / Engineering Mathematics** (07/08/2006 to till date) at **K. C. College of Engineering Management Studies and Research**, Thane (East).

Job profile as follows:

- Teach courses in Applied Mathematics, Engineering Mathematics to undergraduate students.
- Coordinator of KC-Eco-club / Green club 2025-26, 2024-25, 2023-24, 2022-23, 2021-2022.
- Yukthi Coordinator in Institute Innovation Council IIC.
- Member of KC-Eco-club 2020-2021.
- Prepare instructional materials for the Online and Off-line lectures.
- Prepare work-sheets, problem sets for practice.
- Conduct Online quizzes and Off-line tests for learners.
- Train the learners for their better performance through the revision activities.
- Create academic activities in accordance with departmental expectations.
- Regularly meet with learners during college hours to address concerns and offer feedback.
- Publish papers in professional journals through considerable research.
- Participate in campus Technical and Non-Technical events.
- Grade class test papers, giving detailed feedback.
- Keep thorough records of learner scores and attendance.
- Provide special assistance to the learners as per the requirement.
- Member of Eco-club committee.
- Departmental NBA Coordinator for the criteria 8.
- Departmental NACC Coordinator for the criteria 1,2,3.
- University Vigilance squad Member first/second half of the year 2016.
- Joint chief conductor of University Examination May 2015.
- Examiner and Moderator in University examination.
- Active member of Centralized Admission Process.
- Coordinator of Centralized Assessment Process for University examination.
- Time-Table In charge, Daily report In charge, Defaulter list In charge and Mentor.
- Technical Festival Head and an active member in the Cultural festival.
- Active member of Academic Disciplinary committee.
- Active member of staff organizing committee in ISTE approved STTP Jan 2015, FDP Aug 2013, Jan 2011.

2. Worked as a **Teacher in Mathematics** (June 2003 to 03/08/06) at **Sri Maa Balniketan School and Junior College, Thane (E)**.
3. Worked as a **Lecturer in Mathematics** (August 2002 to May 2003) at **R. A. D. A. V College of Science and Commerce, Bhandup (E)**.
4. Worked as a **Lecturer in Mathematics** (June 1998 to May 1999) at **Tamil Nadu Polytechnic, Madurai**
5. Two years of experience of teaching at Madurai in Tamil Nadu.

ADDITIONAL QUALIFICATIONS:-

Computer proficiency :

- NPTEL (AICTE FDP) Online certification course on “**Python for Data Science**”. July to August 2024.
- NPTEL (AICTE FDP) Online certification course on “**Outcome Based Pedagogic Principles for Effective Teaching**”. January to February 2024.
- NPTEL (AICTE FDP) Online certification course on “Introduction to Professional Scientific Communication”. January to February 2022.
- IIT Bombay Online certification course on “Scilab”. 9th May 2020.
- NPTEL Online certification course on “Machine Learning for Engineering and Science Applications”. July to October 2019.
- NPTEL Online certification course on “Designing Learner Centric MOOC”. February to March 2019.
- NPTEL online course “Development of soft skills” with elite 2016.
- MS-CIT

Publications in International /National Book Chapters:-

- Published (Scopus indexed) book chapter on “**Predictive Structural Equation Modeling for Multi-Dimensional Skill-Development Among Higher Education Learners in Formal Learning Environment**”, Advanced Mathematics in Scientific Computing, Communication and Security, ISBN: 978-1-394-30727-2, December 2025.
<https://www.wiley.com/en-in/Advanced+Mathematics+in+Scientific+Computing%2C+Communication+and+Security-p-9781394307272#relatedProducts-section>

Publications in international conference, and Journals:-

- Published research paper on “**Blended-Learning Environment for Mathematical Skill-acquisition among Higher Education Learners Using Principal Component Analysis and Structural Equation Modeling**” Educational Administration: Theory and Practices, Print - ISSN: 2148-2403, Volume 30, Issue 5, May 2024. <https://doi.org/10.53555/kuey.v30i5.3888>

- Presented research paper on **“Factor Analysis and Structural Equation Modeling of Higher Education Learners’ Post COVID-19 Learning Behaviour and Performance in Mathematics”** as a contributory paper international Conference on Recent Advancements in Management and Engineering Research (ICREAMER24) held on 22-23 March 2024.
- Presented research paper on **“Structural Equation Modeling of Higher Education Learners’ Preference for Learning Environment of Mathematics Skill-acquisition”** as a contributory paper in the 25th conference of The Society of Statistics, Computer and Applications jointly organized by Department of Mathematics and Statistics & Centre for Artificial Intelligence, (ETSSAA-2024) Banasthali Vidyapith, Banasthali-304022, Rajasthan, INDIA during February 26-28, 2024.
- Published research paper on **“Modeling the Learners’ Behaviors Using Classification Algorithms in WEKA-Environment”** Industrial Engineering Journal, Print - ISSN: 0970 - 2555, Volume 52, Issue 2, February 2023.
- Published research paper on **“Impact of Lock-down on Virtual Learning and Learning Analytics”** Educreator Research Journal, Print - ISSN: 2455 - 0515, e-ISSN: 2394 - 8450 Volume 8, Issue 2, February 2021.
- Published research article on **“Predictive Model of Learning Analytics for On-Ground Verses Online Assessment”** International Journal of Education and Psychological Research (IJEPR.), Print - ISSN: 2349 - 0853, e-ISSN: 2279 - 0179 Volume 9, Issue 2, June 2020
- Published research paper **“Homotopy Perturbation Method through Laplace Decomposition Algorithm for solving fourth order Parabolic Partial Differential Equations”** at KCCEMSR March 2016.
- Published research paper **“Applications of Elzaki Transform to Ordinary Differential Equations and Partial Differential Equations”** at KCCEMSR March 2015.

Professional membership : ISTE “LM60672”

- NPTEL (AICTE FDP) Online certification course on “**Python for Data Science**”. July to August 2024.
- AICTE, Sponsored One Week Face to Face Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**” at KCCEMSR, Thane(E) (20th August 2024 – 22nd August 2024).
- NPTEL (AICTE FDP) Online certification course on “**Outcome Based Pedagogic Principles for Effective Teaching**”. January to February 2024.
- MHRD Ministry of Education India Online training course on “**Innovation Ambassador-Foundation Level**”. September 2022 (30 hours of 15 contact sessions).
- KCCEMSR in collaboration with Mumbai University - One day faculty development program on " **Data Analysis Using SPSS & Excel** ", 30th July 2022.
- NPTEL Online certification course on “**Introduction to Professional Scientific Communication**”. January to February 2022.
- AICTE, Sponsored One Week Faculty Development Program on " **Research Support Services in Academic Institutions**" AICTE Training and Learning (ATAL) Academy (24 Aug 2021 to 28 Aug 2021).
- AICTE, Sponsored One Week Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**” ALL INDIA COUNCIL FOR TECHNICAL EDUCATION NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI (14th June 2021 – 18th June 2021).
- AICTE- ISTE, Sponsored One Week Faculty Development Program on "**Automation/Application of Python Programming**" organized by Computer Engineering Dept. of M.H. Saboo Siddik Polytechnic (27th April, 2021 - 03rd May, 2021).
- AICTE Sponsored Two Week Faculty Development Program on “**Insights into Intelligent Automation, Machine Learning and Its Applications**” organized by Electronics Engineering

Department, Sardar Patel Institute of Technology, Andheri(W), Mumbai – 400058 (19th October 2020 to 31th October 2020).

- AICTE Sponsored Two Week Faculty Development Program on “**Insights into Intelligent Automation, Machine Learning and Its Applications**” organized by Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(W), Mumbai – 400058 (17th November 2020 to 29th November 2020)
- AICTE Sponsored Two Week Faculty Development Program on “**Insights into Intelligent Automation, Machine Learning and Its Applications**” organized by Electronics Engineering Department, Sardar Patel Institute of Technology, Andheri(W), Mumbai – 400058 (7th December 2020 to 19th December 2020)
- ISTE Approved One-week Online Faculty Development Program on **PYTHON BASICS, MACHINE LEARNING AND BLOCKCHAIN**, organized by K.J. Somaiya Sion (8 June to 13 June 2020).
- One-week Online Faculty Development Program on **MATLAB** based Teaching-Learning in Mathematics, Science and Engineering, organized by RAIT (18 May to 23rd May 2020).
- “Spoken Tutorial Project” IIT Bombay Online certification course on “**Scilab**”. 9th May 2020.
- One-week Online Faculty Development Program on “**Scilab**” organized by SBJITMR, Nagpur in association with “Spoken Tutorial Project” IIT Bombay (4th May to 9th May 2020)
- One-week Online Faculty Development Program on “Moodle Learning Management System” Organized by SIT Lonavala in association with “Spoken Tutorial Project” IIT Bombay (1 May to 6th May 2020)
- One day webinar on "Enhancing Research Effectiveness using Scopus, ScienceDirect and Mendeley"-Kurukshetra University 1 May 2020.
- Three days Webinar on “Mathematics of Industry 4.0” SRMIST, Ramapuram 27 April-29 April 2020.
- NPTEL Online certification course on “**Machine Learning for Engineering and Science Applications**”. July to October 2019.
- NPTEL Online certification course on “Designing Learner Centric MOOC”. February to March 2019.
- AICTE-ISTE Approved and sponsored One-week STTP on “Innovative Teaching Learning Practices to Achieve Outcome Based Education and Accreditation,” which was held from 3rd May 2018 to 9th May 2018 at Sardar Patel Institute of Technology.

- AICTE-ISTE Approved One-week STTP on "Numerical Techniques in Engineering Research" 11 th to 15th December 2017 at SPIT.
- FDP On Data Analytics and Python 5th,6th,7th July 2017 at KCCEMSR.
- NPTEL Online certification course on “Soft Skill Development”. July to September 2016.
- One-week ISTE approved STTP on Research Methodology & Technology Management. 05-09 Jan 2015 at KCCEMSR.
- One day symposium on ‘SOFT SKILLS’. 01 March 2014 at K.B. College.
- One-day Faculty Development Program on “SOFT SKILLS” 21 Sept 2013.
- ISTE Approved One week STTP "Research Methodology, Mathematical Modeling and Research Based Industry Institute Interaction Activities In Engineering and Technology." 10-14 Jan 2011 at Shivajirao S Jondhale College of Engineering.
- ISTE Approved One-week STTP "The role of Basic Sciences in Today's Engineering and technologies." 19-23 July 2011.
- ISTE Approved One Week STTP on “Software Simulation 12-16 Jan 2009.
- ISTE Approved One Week STTP on Solutions of Mathematical Models using SCILAB. 24-29 Nov 2008.

Intellectual Property Rights

- Industrial Design, Certificate of Registration for a UK Design for “**Plant Health Monitoring Device**”. Version 14-2023.

STTPs,FDPs, Workshop, Seminar, Conferences organized

- ISTE Approved One-week STTP " Research Methodology & Technology Management”. 05-09 Jan 2015.
- ISTE Approved One-week STTP "The role of Basic Sciences in Today's Engineering and technologies." 10-14 Jan 2011.
- One-day Faculty Development Program on “SOFT SKILLS” 21 Sept 2013.

Subjects taught at Engineering Degree

- Applied and Engineering Mathematics-I
- Applied and Engineering Mathematics-II
- Applied Mathematics Thinking I
- Applied Mathematics Thinking II

- Engineering and Applied Mathematics-III (IT)
- Engineering and Applied Mathematics-IV (IT)

INTEREST : Listening Music

CO-CURRICULAR ACTIVITIES:

- Organized “**TECHNOVA 2026**” for SE-IT and FE students on 25 March 2026.
- Organized “**Seed Balls Preparation-Workshop**” for SE-IT students on 31 July 2025.
- Organized “**Fresh Tech Carnival 2025**” for SE and FE students on 25 March 2025.
- Organized “Tree Plantation Drive” for NSS students on 21 Sep 2024 at Ernjad, Badlapur.
- Organized “Seminar on Green Initiative”(for the importance of Growing the Plants) on 13th Sep 2024.
- Organized “E-Waste Collection Drive” on 23 April 2024.
- Part of Green and Energy Audit 2 April 2024.
- Organized “Workshop on Microgreen” on 6 Feb 2024.
- Organized “Workshop on Eco-bricks Preparation” on 9 Feb 2024
- Organized “Seed Plantation Trek” on 7th October 2023 and 24th September 2022.
- Organized “Seed Balls Preparation” on 3 June 2023 and 10th August 2022.
- Organized “Tree Plantation Day and Prize Distribution event for Presentation Competition” on 24 June 2023 and 3rd June 2022
- Organized “Organ Donation webinar and Presentation Competition” 21st May 2022.
- Organized “No-vehicle Day” on 20th May 2022.
- Conducted On-line Quiz On “Environmental Sciences” 5th – 20th May 2022.
- Conducted On-line National Level Quiz On “FUN WITH MATHEMATICS” 18 – 24 May 2020.
- Participated in Quiz, Debate, Rangoli competition

Date:

(Dr. S. Bhuma Devi)