

## Resume

**Dr. S. ALAMELU**

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## Work Experience 21 Years

**Current Employment:** Associate Professor in Mathematics

Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Self Finance)  
Chromepet , Chennai 600044

## Educational Qualification M.Sc., M.Phil., Ph.D.

**Ph.D in Mathematics - July 2016**

Dravidian University (Inter State University) Kuppam, Andhra Pradesh.

**Research Topic:** A Study on Mathematical Models for Human Stress Effects.

## Completed Online Certification – MOOC - SWAYAM – NPTEL

Certificate Type: **Elite + Silver**

## Academic Projects:

Minor Research Project – **Completed**

**Research Topic:** A Study on Mathematical Models for the Abnormalities of HPA Axis due to Stress - February 2018.

Funding: S.D.N.B. Vaishnav College For Women, Chennai 600044

## Credentials - Top Reviewer on Pubblons ( Manuscripts Reviewed)

## Publications:

Journal /Publication	Title	Year
Malaya Journal of Matematik, Vol. 8, No. 3, 1306-1310, 2020 <a href="https://doi.org/10.26637/MJM0803/0101">https://doi.org/10.26637/MJM0803/0101</a> <b>UGC- Care list 1</b> <b>MathSciNet. MR4147104</b>	MATHEMATICAL MODEL FOR THE ABNORMALITIES OF HPA AXIS DUE TO STRESS ASSOCIATED WITH ANALYTIC UNIVALENT FUNCTIONS	2020
The Journal of the Indian Academy of Mathematics	A Mathematical model for the degradation path for the response of cortisol due to the effects of acute psychological stress.	2013
International Journal of Mathematics and Computation <b>MathSciNet MR2888716</b>	A Mathematical model shows the damage level due to stress and upper bound of reliability function.	2012

AryaBhatta Journal of Mathematics and Informatics. <b>Indexed in Indian Science Abstract</b>	A Mathematical model for arousing effects of CRH between middle-aged and young men by using a discrete Weibull distribution.	2011
Pacific-Asian Journal of Mathematics	A Mathematical model predicts residual reliable life for obstructive sleep apnoea syndrome patients	2011
Antartica Journal of Mathematics Scientific factor: available	A Mathematical model to analyze the ACTH and cortisol responses by step-up test method.	2011
International Journal of Mathematical Sciences	A Mathematical model for the activation of HPA axis for the effects of cigarette smoking	2011
Bio-Science Research Bulletin	A Mathematical model predicts HPA axis response in late adulthood due to childhood separation	2010

### Paper Presentation:

Program	Paper Title	Venue	Date
International Conference on “Emerging Trends in Mathematics and Statistics (ICETMS-2020 online)	<i>MATHEMATICAL MODEL FOR RESPONSE OF HPA AXIS DUE TO STRESS ASSOCIATED WITH ANALYTIC UNIVALENT FUNCTIONS</i>	<i>Post Graduate Department of Mathematics &amp; Statistics and IQAC, St. George's College Aruvithura, Kottayam in association with Kerala Mathematical Association (KMA).</i>	22.10.2020
NSMA 2016 - National Symposium on Mathematics and Applications	Mathematical Model For the Abnormalities of HPA Axis Due To Stress	Indian Institute of Technology (IIT) Madras, Chennai	Dec 2016
NSMMA 2011 - National Symposium on Mathematical Methods and Applications	A Mathematical model for the Abnormalities of the HPA Axis in Women with Abdominal Obesity	Indian Institute of Technology (IIT) Madras, Chennai	Dec 2011

### JOURNAL REVIEW AND BOOK REVIEW

- Title:** APPRAISAL OF MAIN EXTREME PARAMETERS OF EARTHQUAKES IN NIGERIA USING THE WEIBULL EQUATIONS.
- Title :** Mechanism of Instrumental Game Theory in The Legal Process via Stochastic Options Pricing Induction. Reference No. Ms\_ARJOM\_59536  
DOI: 10.9734/ARJOM/2020/v16i830215
- Title :**Mathematical Modelling of the Dynamics of COVID-19 Disease Transmission.  
Ref. No. Ms\_ARJOM\_65323
- Book Review :**
  - Operations Research
  - Allied Mathematics**VR1 Publications.**



2.







Successfully Completed Basic Optimization Technology Workshop and **Qualified the Exam** Organized by REST Society for Research International.

Webinar: . Attended 20 Webinars organized by various Institutions and Organizations.

#### Internship Guidance:

Intern	Title	Venue	Date
R.Nivetha & Vincy I M.Sc. Mathematics - Stella Maris College, Chennai	Calculus of Variations	S.D.N.B. Vaishnav College For Women	May 2019
Vishalini I M.Sc. Mathematics - Stella Maris College, Chennai	A Study on Reliability Theory For Modeling Life Time Data	S.D.N.B. Vaishnav College For Women	May 2019

#### Participation as Resource Person:

Program	Title	Venue	Date
Popular Lecture Series	Applications of Monotonic functions in Reliability Theory	Online	22.11.2020
National Webinar	Applications of Monotonic Functions In Modelling Life Time Data	SRM Valliammai Engineering College- ONLINE	20.09.2020

Summer Internship Program	Applied Mathematics- Applications of Monotonic functions	Pie Mathematics Association, Chennai.	May 2017
Club Activity	Math Club – Algebraic Expressions and Identities	Jawahar Vidyalaya Senior secondary School, Chennai.	Nov 2016
Science Exhibition	Chief guest & Judge	Vivekananda School Chromepet & Perambur	2016

#### **Roles & Responsibilities Held:**

- Swayam Coordinator(promoting SWAYAM MOOC courses )
- Deputy Controller of Examinations ( June 2017-November 2018)
- TNPSC Combined Civil Service Examination – Chief Superintendent
- Malpractice Committee Member
- Department Head – M.Sc. Applicable Mathematics (2013-2019)
- Department Head- B.Sc.Mathematics (2004-2012)
- Member Board of Studies
- Member Academic Council Meeting
- Research Coordinator
- Admission Coordinator
- Fine Arts – Member
- End Semester Exam Committee Member
- Assistant Chief Superintendent (University Arrear Examination)
- Staff Secretary
- Students Union Coordinator
- Association Vice President
- Examiner – PG valuation & Central valuation
- TNPSC Exam- Coordinator

#### **Highlights & Key Accomplishments:**

- Student Internship Guidance – M.Sc. Mathematics
- Participation as Resource Person
- Organized Workshops & Guest Lectures
- Attended Symposiums, Workshops & Seminars
- Question paper setting – Other colleges
- Developing Academic Associate ship with National Institutes

#### **Workshop/ Guest Lectures Organized:**

<b>Program</b>	<b>Title</b>	<b>Venue</b>
Faculty Development Programme FDP	TWO Days online FDP jointly with IQAC on Integrating SWAYAM MOOCs & Educational Apps in Teaching.	Online
MOOC (SWAYAM) Workshop	Digital Initiatives in Higher Education “Learning Aspects of Digital MOOCs & Training through Blended MOOCs”	S.D.N.B. Vaishnav College for Women, Chennai
Math Fest	National Mathematics Day Celebrations	S.D.N.B. Vaishnav College for Women, Chennai
Guest Lecture	National Mathematics Day	S.D.N.B. Vaishnav College for Women, Chennai

**Symposium / Workshop / Seminar Attended:**

<b>Program</b>	<b>Title</b>	<b>Venue</b>
Faculty Development Programme (FDP)	MOOCs for blended Teaching & Learning	Loyola College, Chennai
UGC Sponsored IQAC National Seminar	Industry-Institute Relationship – Emerging Trends in integrating Industry Skills in Curriculum	SDNB Vaishnav College for Women, Chennai
State Level Seminar	Mathematics-Schema of Diverse Dimensions	M.O.P Vaishnav College for Women, Chennai
UGC-Training for College Teachers	Pedagogy of Teaching Environmental Studies	Academic Staff College, University of Madras, Chennai
NSCFST - 2015	National Seminar on Cyber Forensics & Security Technologies	SDNB Vaishnav College for Women, Chennai
IQAC Workshop	Training the Trainers	SDNB Vaishnav College for Women, Chennai
IQAC National Seminar	New Vistas in Teaching Pedagogy	SDNB Vaishnav College for Women, Chennai
NSMMA 2011	National Symposium on Mathematical Methods and Applications	Indian Institute of Technology Madras, Chennai
NSMA 2016	National Symposium on Mathematics and Applications	Indian Institute of Technology Madras, Chennai
Seminar	National Seminar On Artificial Intelligence	SDNB Vaishnav College for Women, Chennai