

**Dr.D.JASMINE**

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Department of Mathematics,  
Bishop Heber College,  
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## Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D.	Mathematics	Bharathidasan University	June 2015
M.Phil	Mathematics	Madurai Kamaraj University	Apl. 2002
M.Sc.	Mathematics	Bharathidasan University	Apl. 1996
B.Sc.	Mathematics	Bharathidasan University	1991

Cleared NET / SET :	Details	Year of Passing

## Additional Qualification

Name of Course	Place of Study	Date	Duration
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## Work Experience

Name of Institution	Address of Institution	Designation	From	To
Bishop Heber College	Bishop Heber College Puthur, Trichy-620017	Associate Professor	14.07.2000	Till date
Bishop Heber College	Allithurai Road Puthur, Trichy-620017	Associate Professor	14-07-2000	Till date
Vigil Laminations	Fort Station Road, Trichy	Clerk cum Typist	June 1991	Feb. 1994
Sri Karpaga Vinayagar Matric. Hr. Sec. School	K. K. Nagar, Trichy	Teacher	June 1996	Jan. 1997
P.S.G Convent	Kadukodi, White Field, Bangalore.	Teacher	June 1997	Nov. 1997

## Teaching / Research Experience

**U.G. :** 21 Years      **P.G. :** 17 Years      **M.Phil.** 11 years      **Ph.D.** ----

**Research Guidance**

**U.G. :** Nil      **P.G. :** More than 60 |      **M.Phil. :** More than 25 P      **Ph.D. :** -----

**Field Experience**

Type	Name of the Sector	Designation	From	To
Nil		Nil	---	---

**Table of Contents**

1.	Conferences / workshops / Seminars Attended	19
2.	Research Papers Presented	16
3.	Publication in Journals	13
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5.	Books Published / Edited	0
6.	Conferences / Workshops / Seminars Organised	1
7.	Research Projects	0
8.	Resource Person	2
9.	Consultancy	0
10.	Awards Recieved	2
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	14 / 0

1. International level Conference on **"Heber International Conference on Applied Mathematics"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 26/04/2021 to 26/04/2021.
2. College level Workshop on **"Mathematics in Machine Learning"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 19/03/2021 to 20/03/2021.
3. International level Conference on **"Virtual Heber International Conference on Applied Mathematics"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 07/11/2020 to 07/11/2020.
4. -1 level Orientation on **"E Content Development"** sponsored by Deanery of Academics, Bishop Heber College organized by Deanery of Academics, Bishop Heber College at Trichy during 27/10/2020 to 02/11/2020.
5. University level Workshop on **"Advanced Concepts for Developing Moocs"** sponsored by Ministry of Human Resource Development, Govt. of India organized by Ramanujan College at Delhi during 02/07/2020 to 17/07/2020.
6. University level Orientation on **"Faculty in Universities/Colleges/Institutes of Higher Education"** sponsored by Ministry of Human Resource Development, Govt. of India organized by Ramanujan College at Delhi during 04/06/2020 to 01/07/2020.
7. College level Workshop on **"Two Day Student Workshop - IGNITE 2019"** sponsored by DBT-STAR College Scheme organized by at Bishop Heber College during 24/06/2019 to 25/06/2019.
8. -1 level Workshop on **"Optimizing Research Tools and Techniques"** sponsored by Library and Information Science, Bishop Heber College organized by Library and Information Science, Bishop Heber College at Trichy during 22/08/2015 to 22/08/2015.
9. -1 level Workshop on **"Examination Reforms & Evaluation"** sponsored by IQAC, Bishop Heber College organized by IQAC, Bishop Heber College at Trichy during 25/03/2011 to 26/03/2011.
10. -1 level Seminar on **"Christianity in India"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 13/01/2010 to 13/01/2010.
11. National level Workshop on **"Teaching Women's Studies"** sponsored by UGC organized by Centre for Women's Studies, Lady Doak College at Madurai during 27/09/2009 to 27/09/2009.
12. -1 level Workshop on **"Stochastic Differential Equations"** sponsored by DST-FIST organized by Dept. of Mathematics, Bishop Heber College at Trichy during 23/01/2009 to 24/01/2009.
13. -1 level -1 on **"Training on MATLAB"** sponsored by UGC organized by Dept. of Mathematics, Bishop Heber College at Trichy during 22/02/2008 to 22/02/2008.
14. -1 level Workshop on **"Training on MATLAB"** sponsored by DST-FIST organized by Dept. of Mathematics & IQAC, Bishop Heber College at Trichy during 25/10/2007 to 26/10/2007.
15. -1 level Workshop on **"Power Point Presentation and Internet Usage"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 23/04/2007 to 24/04/2007.
16. -1 level Workshop on **"Exam Reforms in Question Paper Setting"** sponsored by by Bishop Heber College organized by by Bishop Heber College at Trichy during 07/03/2007 to 01/01/1900.
17. -1 level Workshop on **"Maternity Production Benefits in Tamil Nadu"** sponsored by UGC organized by All India Christian Higher Education, All India Christian Higher Education at Trichy during 01/03/2007 to 01/03/2007.

18. National level Seminar on "**Importance of Graph Theory, Fuzzy Algebra and Cryptography**" sponsored by UGC organized by Organized by Dept. of Mathematics, Holy Cross College at Trichy during 24/01/2007 to 25/01/2007.
19. -1 level Workshop on "**Curriculum Development and Evaluation**" sponsored by UGC organized by Dept. of Mathematics, Bishop Heber College at Trichy during 09/03/2006 to 11/03/2006.



1. **"Significance of an SEIHR model with preventive class in declining the spread of COVID-19"** in the International conference on *ICRTAM* sponsored by , organized by Loyola College at Chennai during 24/02/2023 to 25/02/2023.
2. **"A Mathematical Model for treatment of Differentiated Thyroid Cancer using Radioactive Iodine"** in the International conference on *ICRTAM* sponsored by , organized by Loyola College at Chennai during 24/02/2023 to 25/02/2023.
3. **"An SEIQR Model with Vaccination Class Influencing the Significance of Booster Dose for COVID-19"** in the Select conference on *INTERNATIONAL CONFERENCE OF MATHEMATICAL METHODS AND COMPUTATION* sponsored by , organized by Jamal Mohamed College at trichy during 21/12/2022 to 22/03/2023.
4. **"An SIR Model for COVID-19 with Vaccination an an Optimal Control Stratergy:A case Study of India"** in the International conference on *Scientific and Technological Advancements for Reliable and Sustainable -future* sponsored by , organized by Bishop Heber College at trichy during 16/ 11/2022 to 18/11/2022.
5. **"A Mathematical Treatment Model and Analysis of Hyperthyroidism using MMI"** in the International conference on *Scientific and Technological Advancements for Reliable and Sustainable -future* sponsored by , organized by Bishop Heber College at trichy during 16/ 11/2022 to 18/11/2022.
6. **"A Mathematical Treatment Model and Analysis of Hyperthyroidism using MMI"** in the International conference on *Scientific and Technological Advancements for Reliable and Sustainable -future* sponsored by , organized by Bishop Heber College at trichy during 16/ 11/2022 to 18/11/2022.
7. **"A Mathematical model and Analysis of Graves Hyperthyroidism"** in the College conference on *ICMSA 2022* sponsored by , organized by St.Josephs College at trichy during 09/03/2022 to 09/03/2022.
8. **"MODELING AND SIMULATION OF SIR MODEL USING VACCINATION AS AN OPTIMAL CONTROL STRATEGY FOR COVID-19: A CASE STUDY OF INDIA"** in the International conference on *International Conference on Mathematical Modelling, Applied Analysis and Computational Intelligence* sponsored by , organized by The Gandhigram Rural Institute at Gandhigram during 02/03/2022 to 04/03/2022.
9. **"A Mathematical Treatment Model and Analysis of Hyperthyroidism"** in the International conference on *Heber International Conference on Applied Mathematics* sponsored by , organized by Bishop Heber College at trichy during 26/04/2021 to 26/04/2021.
10. **"A Modified Epidemiological Model and Analysis of COVID-19 Pandemic"** in the International conference on *Heber International Conference on Applied Mathematics* sponsored by , organized by Bishop Heber College at trichy during 26/04/2021 to 26/04/2021.
11. **"A Mathematicall Model for Corona Virus Disease (Covid 19) Containing Isolation Class with Incidence Rtate"** in the International conference on *HICAM 2021* sponsored by , organized by Bishop Heber College at Trichy during 26/04/2021 to 26/04/2021.
12. **"Global Analysis of SIR Epidemic Model with Non-monotonic Incidence Rate under Treatment"** in the Select conference on sponsored by UGC, organized by Madura College at Madurai during 06/01/2014 to 06/01/2014.
13. **"Communication Network Using Signal Flow Graph"** in the Select conference on *HICAMS* sponsored by UGC, organized by Department of Mathematics at Trichy during 05/01/2012 to 01/01/1900.
14. **"Simulation Analysis of Searching Time of Books in the Library"** in the Select conference on *LIST* sponsored by , organized by Library and Information Science at Trichy during 13/02/2010 to 13/02/2010.



15. **"Minmiziing the Waiting Time in the Library Through Mathematical Modeling"** in the National conference on *L/ST* sponsored by UGC, organized by Library and Information Science at Trichy during 19/03/2009 to 01/01/1900.
16. **"Modeling and Simulation Analysis of SIR Epidemic Model with Immigration and Nonlinear Incidence Rate under Treatment"** in the International conference on sponsored by UGC, organized by Jamal Mohamed College at Trichy during 01/01/1900 to 01/01/1900.



1. **"A Mathematical Model for Differentiated Thyroid Cancer with Combination Therapy"**  
published in Indian Journal of Science and Technology (PEER REVIEW) Vol. 17, Issue No. 25, June 2024 ISSN : 0974-5645.
  2. **"A Mathematical Model for Treatment of Differentiated Thyroid Cancer using Radioactive Iodine"** published in Indian Journal of Science and Technology (PEER REVIEW) Vol. 16, Issue No. SP3, November 2023 ISSN : 0974-5645.
  3. **"A Mathematical Model for Treatment of Differentiated Thyroid Cancer using Radioactive Iodine"** published in Indian Journal of Science and Technology (PEER REVIEW) Vol. 16, Issue No. SP3, November 2023 ISSN : 0974-5645.
  4. **"A MATHEMATICAL TREATMENT MODEL AND ANALYSIS OF HYPOTHYROIDISM USING LEVOTHYROXINE"** published in JOURNAL OF ALGEBRAIC STATISTICS (PEER REVIEW) Vol. 13, Issue No. , June 2022 ISSN : 1309-3452.
  5. **"A Mathematical Model for Corona Virus Disease (Covid 19) Containing Isolation Class with Incidence Rate"** published in Sangya Vignan (PEER REVIEW) Vol. 17, Issue No. 2, June 2021 ISSN : 2321-0877.
  6. **"A Mathematical Model and Analysis of Hyperthyroidism"** published in Sangya Vignan (PEER REVIEW) Vol. 17, Issue No. 2, June 2021 ISSN : 2321-0877.
  7. **"A Modified Epidemiological Model and Analysis of Covid 19 Pandemic"** published in Sangya Vignan (PEER REVIEW) Vol. 17, Issue No. 2, June 2021 ISSN : 2321-0877.
  8. **"Mathematical Modeling and Simulation of SIR Model with Optimal Control Strategy of Covid 19: A Case Study of India"** published in Sangya Vignan (PEER REVIEW) Vol. 17, Issue No. 2, June 2021 ISSN : 2321-0877.
  9. **"Stability Analysis of the Transmission Dynamic and Control of Infectiousrate under Treatment"** published in IJSR (PEER REVIEW) Vol. 5, Issue No. 6, June 2016 ISSN : ---.
- Impact factor , Scopus Index , h - index , Citation index 6.14
10. **"Global Analysis of Modified SIR Epidemic Model with Immigration and Non-monotone Incidence Rate under Treatment"** published in Global Journal for Research Analysi (PEER REVIEW) Vol. 3, Issue No. 1, January 2014 ISSN : 2277-8160.
  11. **"• Global Analysis of SIR Epidemic Model with Immigration and Non-monotone Incidence Rate under Treatment"** published in IOSR International Journal of Mathematics (PEER REVIEW) Vol. 9, Issue No. 2, December 2013 ISSN : 2319-7676..

12. **"Global Analysis of SIR Epidemic Model with Immigration and Non-monotone Incidence Rate"** published in International Journal of Applied Mathematics and Statistical Sciences (PEER REVIEW) Vol. 2, Issue No. 5, November 2013 ISSN : 2319-3972.
13. **"Modeling and Simulation of Modified SIR Epidemic Model with Immigration and Non-monotonic Incidence Rate under Treatment"** published in Indian Journal of Applied Research (PEER REVIEW) Vol. 3, Issue No. 7, July 2013 ISSN : 2249-555X.

#### Conferences / Workshops / Seminars Organised

- 1

1. International level Conference Entitled **"International Conference on Applied Mathematics and BNio-Inspired Computations"** at Bishop Heber College, sponsored by CSIR, during 01/10/2019 to 01/11/2019.

#### Awards Recieved

- 2

Award Name	Presented by	Year	Level	Instituted by / Place	amount
Philanthropy		01/01/2017	COLLEGE	Bishop Heger Collegew	
Philanthropy	Bishop Heber College	05/02/2014	COLLEGE	Bishop Heber College	Nil

#### TRAINING PROGRAMME

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- # COLLEGE level FACULTY DEVELOPMENT on **"Faculty Development Programme on Student Mental Health"** Sponsored by , Organized by Internal Quality Assurance cell and Deanery of Academics, Bishop Heber College at Trichy during 15/07/2022 - 01/01/1900.
- # INTERNATIONAL level FACULTY DEVELOPMENT on **"The Nuances of Scientific Writing and Publishing"** Sponsored by , Organized by AIACHE & MCC at during 11/07/2022 - 19/07/2022.
- # STATE level ORIENTATION on **"One Week National Level Short Term course on ICT Tools for Interactive Teaching and Blended Learning"** Sponsored by , Organized by Deanery of Academics, Bishop Heber College at Trichy during 12/07/2021 - 19/07/2021.
- # COLLEGE level FACULTY DEVELOPMENT on **"Mathematics in Machine Learning"** Sponsored by , Organized by PG and Research Department of Mathematics at Bishop Heber College, Trichy during 19/03/2021 - 20/03/2021.
- # NATIONAL level FACULTY DEVELOPMENT on **"Advanced Concepts for Developing MOOCS"** Sponsored by , Organized by Teaching Learning Centre, Ramanujan College at University of Delhi during 02/07/2020 - 17/07/2020.
- # NATIONAL level ORIENTATION on **"Faculty in Universities/Colleges/Institutes of Higher Education"** Sponsored by , Organized by Teaching Learning Centre, Ramanujan College at University of Delhi during 04/06/2020 - 01/07/2020.



1. International level Conference on **"HICAMMCS-2022"** at Bishop Heber College, 18/03/2022.
2. College level Workshop on **"IGNITE-2019"** at Bishop Heber College, 24/06/2019.



**Signature of Staff**  
**(D.JASMINE)**