



**DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT**  
22 Mile, B.M Kaval, Udayapura, Kanakapura Road, Bangalore-560082.

**DEPARTMENT OF MATHEMATICS**

<b>Faculty Name</b>	<b>Dr. Vatsala GA</b>	
<b>Designation</b>	<b>Associate Professor</b>	
<b>Educational Qualification</b>	B.Sc., M.Sc., Ph.D	
<b>Experience in Years</b>	<b>20.5</b>	
<b>Area of Interest</b>	<b>Operations Research</b>	
<b>Email ID</b>	<b>Dr.vatsala.ga@gmail.com</b>	

**Educational Details**

- PhD - Mathematics (Operational Research)
- MSc - Graph Theory and Computer aided Geometric design( Electives )
- BSc - Physics, Chemistry & Mathematics

**Personal Details**

- Date of Birth: 23/03/1975
- Hobbies: Reading Novels, Painting, Puzzle solving and Interior designing.
- Languages Known: Kannada, Hindi and English.

**Professional Experience**

- Working as Associate Prof in the Department of Mathematics in Dayananda Sagar Academy of Technology and Management (DSATM), Opp to Art of living, Udayapura. Bangalore. From July2014 to till the date
- Worked as Associate Prof and HOD in the Department of Mathematics in NANDI INSTITUTE OF TECHNOLOGY AND MANAGEMENT SCIENCES, BANGALORE, KARNATAKA, INDIA, Since July - 2014 .
- Worked as Senior Lecturer in the Department of Mathematics, K S INSTITUTE OF TECHNOLOGY, BANGALORE, KARNATAKA, INDIA. Since September - 2000 to July-2010.
- Worked as Lecturer, in BRB Degree College, RAICHUR, KARNATAKA, INDIA, from July - 1997 to 2000.

## Publications

### International Journals:

- VATSALA GA , SHARMA SD, G RAVINDRA BABU AND TRIPTHI SHARMA (2011) : Optimization of university resource management through Goal Programming. – PASIFIC-ASSIAN JOURNAL OF MATHEMATICS, vol 5, ISSN 0973-5240, page 27-34. ( Google scholar )
- VATSALA GA , SHARMA SD, G RAVINDRA BABU AND TRIPTHI SHARMA (2011) : A resource allocation model for insurance management using Goal Programming. – International journal of applied mathematical analysis and application vol 6, ISSN 0973-3868, page 199-206. ( Google scholar )
- VATSALA GA , SHARMA SD, G RAVINDRA BABU AND TRIPTHI SHARMA (2011) :Goal Programming Model For Generating And Evaluating Alternatives In Requirement Analysis International Journal Of Mathematics 3 (1), 13-24( Google scholar )
- CHAITRA M AND VATSALA GA (2016): A Goal Programming Approach to coffee plantation planning, Paper participated in “National conference on Advances in Mechanical Engineering And Applied Sciences” – ISBN 0978-84935- 77-1, page 11-14.
- 7. Jyothi.P 1 , VatsalaGA 2 , RadhaGupta 3 (2016) “Optimal Solution For Distribution Of Segregated Wastes Of the Garbage Disposal Unit Using goal Programming” IJRET International journal of Research in Engineering and Technology,Valume-3,Issue-12 e-ISSN: 2395-0056, p-ISSN:2395- 0072 ( ISO 9001:2008 certified) Impact Factor : 4.45
- Jyothi. P ,Vatsala G.A, Radha Gupta and Anitha Chaturvedi:(2016) “Optimal Solution for Planning of Disposal of Wastes using Mathematical Model” International Journal of Control Theory and Applications.Nov- 2016,Volumwe-9,Issue- 42,IssuePages : 233-239.
- Ghanashyam K.J and Vatsala G.A(2016): “The Dexterous Survey with a Vision Towards Waste Depletion, Garbage Ejection and Recycling Procedure” International Journal of Control Theory and Applications. Nov-2016,Volumwe- 9,Issue-42,IssuePages : 225-231.
- Jyothi.P\*1, Vatsala G A\*2 , Radha Gupta\*3 (2017): Optimal Solution For The Distribution Of By-Products In Disposal Unit. International Journal of Research - GRANTHAALAYAH [59] RAST - 17 ISSN- 2350-0530(O), ISSN- 2394-3629(P) ICV (Index Copernicus Value) 2015: 71.21 IF: 4.321 (CosmosImpactFactor), 2.532. [Http://www.granthaalayah.com](http://www.granthaalayah.com) . April-2017 ( UGC listed journal )
- Anita Chaturvedi\*1, Kokila Rame\*2, Vatsala G A\*3 (2017) : A MATHEMATICAL APPROACH TO STUDY THE EFFECT OF POLLUTANTS/TOXICANTS IN AQUATIC ENVIRONMENT, International Journal of Research – GRANTHAALAYAH. ISSN- 2350-0530(O), ISSN- 2394-3629(P) ICV (Index Copernicus Value) 2015: 71.21 IF: 4.321 (CosmosImpactFactor), 2.532 (I2OR) April-2017, [www.granthaalayah.com](http://www.granthaalayah.com). ( UGC listed

journal )

- 12. Ritesh Kumar 1 , Manjunath Machnoor 2 Vatsala GA 3 (2017) Novel Coupled RF signal cancellation along with spatial diversity using multiple patch antennas for backscatter communication applications. Microwave and RF conference( IMaRC) 5-9 Dec 2016.MTT-S International,DOI: 10.1109/IMaRC.2016.7939611,New Delhi ,India.Date of added IEEE xplore:08/06/2017. Electronic ISSN:2377-9152.
- 13. Jyothi.P \*1 , Dr.Vatsala G A 2 , Dr. RadhaGupta 3 , Anitha Chaturvedi 4 (2017) “Optimal solution for establishment of disposal units using goal programming model” International journal of innovativeresearch in science, engineering and technology ,vol 6, special issue 12,18-22, july2017.

#### **National Journals:**

- VATSALA GA AND SHARMA SD (2007): A Goal Programming Model for measuring the effectiveness of Quality Control Circles. Reflections des ERA-Journal of mathematical sciences, 2[1], 51 – 68, ISSN 0973-4597.
- VATSALA GA AND SHARMA SD (2007): Banks Asset Allocation - A Goal Programming Approach. Reflections des ERA-Journal of mathematical sciences, 2[4], 311 – 312, ISSN 0973-4597.

#### **Conferences:**

- CHAITRA M AND VATSALA GA (2016): A Goal Programming Approach to coffee plantation planning, Paper participated in “National conference on Advances in Mechanical Engineering And Applied Sciences” – ISBN 0978-84935- 77-1, page 11-14.
- **VATSALA GA AND SHARMA SD (2008):** *Optimization of Financial Resources for IT Industry through Goal Programming* – Paper Presented at **National Women’s Science Congress** held in Bijapur from 7<sup>th</sup>-9<sup>th</sup> November, 2008.
- **VATSALA GA AND SHARMA SD (2008):** *Goal Programming Approach to Maintenance Scheduling of Generating Units in Large Scale Power Systems,* – Paper Presented at **National Women’s Science Congress** held in Bijapur from 7<sup>th</sup>-9<sup>th</sup> November, 2008.
- **VATSALA GA AND SHARMA SD (2010):** *A Goal Programming Model for Public Accounting Firms,-Paper Presented in INTERNATIONAL CONFERENCE at B.N.M.I.T Bangaluru from 20<sup>th</sup> – 22<sup>nd</sup> January 2010.*
- **VATSALA GA AND SHARMA SD (2013):** *Towards a Goal Programming for constructing equity mutual fund portfolios, - Paper presented in National conference on Analysis and application of mathematics 2013 From 22<sup>nd</sup> and 23<sup>rd</sup> February 2013.* REVA Institute of Technology and Management , Bangalore.
- **Jyothi.P<sup>1</sup>, VatsalaGA<sup>2</sup>, RadhaGupta<sup>3</sup>(2016)** *Optimal Solution For Distribution Of By-*

*Products Of The Garbage Disposal Unit Using Goal Programming* presented in **National** conference on convergence of science, technology and Management ( NCCSTM-2016) 5<sup>th</sup> May 2016.DSATM Bangalore.

- **Dr.Vatsala G<sup>1</sup>, Chaitra M<sup>2</sup> and Jyothi P<sup>3</sup> (2016)**“*Analysis of Effect of Amplitude Response of Phase Shifters on Phased Array Antenna Using Convex Optimization*” presented in **National** conference on convergence of science, technology and Management ( NCCSTM-2016) 5<sup>th</sup> May 2016.DSATM Bangalore.
- **Ritesh Kumar<sup>1</sup>, Manjunath Machnoor<sup>2</sup> Vatsala GA<sup>3</sup>(2016)** *Novel Coupled RF signal cancellation along with spatial diversity using multiple patch antennas for backscatter communication applications. International* microwave and RF conference 5-9 Dec 2016. IEEE
- **Jyothi.P<sup>1</sup>, VatsalaGA<sup>2</sup>, RadhaGupta<sup>3</sup> (2016)** *Optimal Solution For Financial Planning Of The Garbage Disposal Unit Using Goal Programming. International Conference* on Business Analytics and Intelligence (ICBAI- 2016) to be held in December 19-21 at IISc, Bangalore.
- **Jyothi.P#1, Vatsala G A\*2, Anitha Chaturvedi #3 (2017)** “*Optimal solution for planning of disposal of wastes using mathematical model*” presented a paper in 5th **International Conference** on Advanced Computing, Engineering & Technology (ICACET 2017) organized by The World Academy of Research in Science and Engineering(WARSE) Date: February 16, 2017, Venue: The Solitaire Hotel, Bangalore, India
- **Ghanashyam K J #1, Vatsala G A\*2, (2017)** “*The Dexterous Survey With A Vision Towards Waste depletion, Garbage Ejection And Recycling procedure*” presented a paper in 5th **International Conference** on Advanced Computing, Engineering & Technology (ICACET 2017) organized by The World Academy of Research in Science and Engineering(WARSE) Date: February 16, 2017, Venue: The Solitaire Hotel, Bangalore, India
- **Archana Satkhed<sup>1</sup>, Vatsala G A<sup>2</sup> (2017)** “*A Literature Survey On Soil Fertility And Water Management In Agrarian Sector*” presented a paper JNANA CHILUME-2017, **National** Conferences on 25 th March 2017 at Jain Global Campus, Jain University Bangalore.
- **Jyothi.P<sup>\*1</sup>, Dr.Vatsala G A<sup>2</sup>, Dr. RadhaGupta<sup>3</sup> (2017)**“*Optimal Solution For The Distribution Of By-Products In Disposal Unit*” presented a paper JNANA CHILUME-2017, **National Conferences** on 25 th March 2017 at Jain Global Campus, Jain University Bangalore.
- **Jyothi.P<sup>\*1</sup>, Dr.Vatsala G A<sup>2</sup>, Dr. RadhaGupta<sup>3</sup>, Anitha Chaturvedi<sup>4</sup> (2017)** “*Optimal solution for establishment of disposal units using goal programming model*” paper presented in International conference on Computer Science and Technology allies in Research (ICCSTAR-2017) on 11<sup>th</sup> and 12<sup>th</sup> may 2017 at CEC Bangalore.

## Academic Activity

- Many times set the question paper for **VTU**, Autonomous college, State Universities and Deemed University examinations (UG, PG and PhD course work).
- I have conducted a **viva** and Comprehensive viva to **MPhil** and **PhD** students
- Evaluated 4 **PhD thesis** under VTU and other university.

## Faculty Development Activity

1. Vatsala GA (2005): National Conference on "*Graph Theory*" organized by Alliance Business Academy Bangalore on 16<sup>th</sup> and 17<sup>th</sup> April 2005 held at Satish Dhawan Auditorium IISc Bangalore.
2. Vatsala GA (2006): Symposium on "*Applied Mathematics in Engineering Technologies*" organized by BNM institute of Technology on 16<sup>th</sup> December 2006, Bangalore.
3. Vatsala GA (2007): Participated in "*VTU 9<sup>th</sup> Inter Collegiate Youth Festival*" organized by Siddaganga institute of Technology on 25<sup>th</sup> to 28<sup>th</sup> October 2007, Tumkur.
4. Vatsala GA (2010): Symposium on "*Science for Engineers*" organized by Auden Technology Academy on 18<sup>th</sup> March 2006, Bangalore.
5. Vatsala GA (2012): One – day Workshop *Operations Research and Its Applications*, on 25<sup>th</sup> Feb 2012, organized by REVA Institute of Technology and Management , Bangalore.
6. Dr. Vatsala GA (2013) : 28<sup>th</sup> National Conference of "*Ramanujan Mathematical Society*" on 27<sup>th</sup> -30<sup>th</sup> June 2013, organized by REVA Institute of Technology and Management , Bangalore.
7. Dr. Vatsala GA (2013): 26th International Conference of Jangjeon mathematical society, South Korea on "*Global Advancement Of Mathematics*" on 01-04 August 2005, organized by Acharya Institute of Graduate studies, Bangalore
8. Dr. Vatsala GA (2015): One – day Workshop on, "*Bhuvan Panchayat Portal for Asset Mapping & Planning*". At ISRO Campus.
9. Dr. Vatsala GA (2016): Workshop on "*INCOSE Academic Forum*" organized by PES University and INCOSE on 8<sup>th</sup> November 2016, Bangalore.
10. Dr. Vatsala GA (**2016**): Workshop on "*EWLSE leadership workshop 2016*" organized by INCOSE India Chapter-Bangalore circle on 11<sup>th</sup> November 2016, Bangalore.
11. Dr. Vatsala G. A., Professor, DSATM Bangalore, **Speaker** and also participated in Faculty Orientation Programme - "*Educate the Educators*" Talk on "*A National Education Policy-2016: challenges and Benefits*" on 5<sup>th</sup> July 2016 , organized by Bheemanna Khandre Institute of Technology Bhalki – 585 328 Dist: Bidar. held on 1<sup>st</sup> -10<sup>th</sup> July **2016**
12. Dr. Vatsala G. A., Professor, DSATM Bangalore, **Speaker** and also participated in Faculty

Orientation Programme - "*Educate the Educators*" Talk on "Under taking the quality issues and role of Teacher "on 8<sup>th</sup> July 2016 organized by Bheemanna Khandre Institute of Technology Bhalki – 585 328 Dist: Bidar. held on 1<sup>st</sup> -10<sup>th</sup> July 2016

13. Dr. Vatsala GA (2017) : One day Work shop on "*Engineering Mathematics –IV*" held on 4<sup>th</sup> Feb 2017 organized by VTU at Jain college of Engineering, Belagavi.

14. Dr. Vatsala GA (2017): One day Work shop on "**Affordable IPR**" held at KASSIA Auditorium, Bangalore on March 90, 2017

15. **Three days workshop on NBA** at Dayananda Sagar Academy of Technology and Management (December 2017)

### Administrative Activity

- Working as First year Coordinator
- Worked as HOD in NITMS, Bangalore
- Worked as Chief coordinator for "CULTURAL COMMITTEE" and organized FIVE "Inter college festivals".
- Worked as Chairperson of i) Cultural committee, ii) Examination committee iii) Disciplinary committee, iv) Anti ragging committee, v) Time table committee

### Professional Membership

- Member of ISTE

### Contact Details

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Bengaluru-560082  
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Phone No.: **9972287654.**

### My Vision

- To do the RESEARCH on real time application problems using **Applied Mathematics** and **Operations Research** which is useful for the society and also like imparting my knowledge to the students in the field of Engineering Application.