

## PERSONAL PROFILE

**Name** : SHAIK SAJANA  
**Designation** : Lecturer in Mathematics  
**College Address** : SRR & CVR GDC (A), Vijayawada  
**Cell No.** : +91 8790524298  
**Mail Id** : [ssajana.maths@gmail.com](mailto:ssajana.maths@gmail.com)  
**Date of Joining**  
**as Lecturer** : 07.06.2018  
**Date of Joining**  
**as Lecturer** : 24.09.2021  
**(Present Station)**  
**Mode of**  
**Appointment** : Direct Recruitment by  
Andhra Pradesh Public Service Commission, Vijayawada



### Educational Qualifications

S.No.	COURSE	BOARD / UNIVERSITY	YEAR OF PASS	PERCENTAGE
1	Ph.D.	Sri Venkateswara University, Tirupathi	2018	---
2	M.Sc.	Sri Venkateswara University, Tirupathi	2012	78.70
3	B.Sc.	Sri Venkateswara University, Tirupathi	2010	82.78
4	Intermediate	Board of Intermediate Education, Andhra Pradesh	2007	83.30
5	Secondary School Certificate	Board of Secondary Education, Andhra Pradesh	2005	79.00

### Professional Experience

- Appointed as **Lecturer in Mathematics** at P.R. Government College (A), Kakinada, East Godavari District on 07.06.2018.  
(Worked from 07.06.2018 to 23.09.2021)
- Presently working as **Lecturer in Mathematics** at SRR & CVR Government College (A), Vijayawada, Krishna District from 24.09.2021.

## **Achievements and Recognitions**

- **Member of Board of Studies** in the Department of Mathematics, A.S.D. Government College for Women (A), Kakinada for the Academic years 2020-2021 and 2021-2022.
- Qualified **GATE-2013** with all India Rank **708**.
- Qualified in **State Eligibility Test for Telangana and Andhra Pradesh States-2014** (SET-TS & AP-2014)
- Got **4<sup>th</sup>** Rank in **SVU RECET-2013**.
- Got **1<sup>th</sup>** Rank in **SVURPGCET-2010**.

## **Memberships**

- Life Member in **ANDHRA PRADESH SOCIETY FOR MATHEMATICAL SCIENCES, INDIA.**(LM No: 957)
- Life Member in **INDIAN MATHEMATICAL SOCIETY, INDIA.**( L/2017/158)
- Life Member in **INDIAN SCIENCE CONGRESS, INDIA.**(L 31385)

## **In service programs attended**

### **Induction Training Programme**

- Completed **“Two Week Induction Training Programme for Newly Recruited Lecturers”** organized by APHRDI in Association with Commissionerate of Collegiate Education, AP, Vijayawada from 13 - 26, Aug 2018.

### **Orientation Courses**

- Completed **“Four Week Induction / Orientation Programme for Faculty in Universities/Colleges/Institutes of Higher Education”** organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 1 - 30, Sep 2020.

### **Refresher Course**

- Completed Online **“Two Week Refresher Course in Mathematical Sciences”** organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Human Resource Development Pandit Madan

Mohan Malaviya National Mission on Teachers and Teaching from 14 - 28, Sep 2021.

### **Faculty Development Programmes**

1. **Participated in "5 Day Faculty Development Programme in LMS Video & Pedagogy"** organized by Commissionerate of Collegiate Education, AP, Vijayawada from 3 - 7, Aug 2020.
2. **Participated in "5 Day Faculty Development Programme in Mathematics on the theme of New Knowledge, Pedagogical Methods: New Frontiers in Real Analysis, Abstract Algebra, Differential Equations and Calculus"** organized by Commissionerate of Collegiate Education, AP, Vijayawada from 13 - 17, July 2020.
3. **Participated in "Two Day's Online Faculty Development Programme on Google Applications"** organized Dept. of Computer Applications, P.R. Government College (A) from 21 - 22, May 2020.
4. **Completed "12 Week NPTEL Online Certificate Course Matrix Solver"** which is equivalent to **One and Half Week Faculty Development Programme** conducted by Indian Institute Technology, Kharagpur through Swayam from July-Oct, 2018.

### **Research Articles Published**

1. Tekuri Chalapathi and **Shaik Sajana**, **UNITARY INVERTIBLE GRAPHS OF FINITE RINGS**, *Discussiones Mathematicae General Algebra and Applications*, Vol. 41 (2021) PP 195-208.
2. **Shaik Sajana**, K.K. Srimitra and D. Bharathi, **INTERSECTION GRAPH OF ZERO DIVISORS OF THE RING  $Z_n$** , *AIP Conference Proceedings* 2246, Vol.2020 (2020), PP 020097-1 - 020097-6.

3. Tekuri Chalapathi, **Shaik Sajana** and Dasari Bharathi, **CLASSICAL PAIRS IN  $Z_n$** , Notes on Number Theory and Discrete Mathematics, Vol. 26, No. 1 (2020) PP 59-69.
4. **Sh. Sajana** and D. Bharathi, **NUMBER THEORETIC PROPERTIES OF THE COMMUTATIVE RING  $Z_n$** , International Journal of Research in Industrial Engineering, Vol. 8, No.1 (2019), PP 77-88.
5. **Shaik Sajana** and D. Bharathi, **HAMILTONIAN PROPERTY OF INTERSECTION GRAPH OF ZERO DIVISORS OF THE RING  $Z_n$** , Malaya Journal of Matematik, Vol. 6, No. 1 (2018), PP 133 - 139.
6. **Shaik Sajana**, D. Bharathi and K. K. Srimitra, **ON THE REDUCED INTERSECTION GRAPH OF A RING  $Z_n$** , International Journal of Advanced Research in Computer Science, Vol. 8, No. 6 (2017), PP 200-202.
7. **Shaik Sajana**, D. Bharathi and K. K. Srimitra, **SIGNED INTERSECTION GRAPH OF IDEALS OF A RING**, International Journal of Pure and Applied Mathematics(IJPAM), Vol. 113, No. 113 (2017), PP 175-183.
8. **Shaik Sajana**, K. K. Srimitra and D. Bharathi, **INTERSECTION GRAPH OF ZERO-DIVISORS OF A FINITE COMMUTATIVE RING**, International Journal of Pure and Applied Mathematics(IJPAM), Vol. 109, No. 7 (2017), PP 51-58.

### **Conferences at International Level**

1. **Presented a paper** in the “83<sup>rd</sup> Annual Conference of the Indian Mathematical Society - An International Meet - 2017” held at S.V. University, Tirupati, Andhra Pradesh during 12-15, Dec 2017.  
Title of the paper: **Hamiltonian property of Intersection graph of Zero-divisors of the Ring  $Z_n$** .
2. **Presented a paper** in “104<sup>th</sup> Indian Science Congress” held at S.V. University, Tirupati, Andhra Pradesh from 3-7, Jan 2017.  
Title of the paper: **Reduced Intersection Graph for Finite Commutative Ring**.

3. **Presented a paper in the “International Conference On Discrete Mathematics-2016 (ICDM-2016) and Graph Theory Day-XII”** organized by Dept. of Mathematics, Siddaganga Institute of Technology, Tumakuru, Karnataka during 9-11, June 2016.

Title of the paper: **Counting Triangles in the Intersection Graphs of Ideals of Rings.**

4. **Presented a paper in the “International Conference on Mathematical Computer Engineering (ICMCE-2015)”** Organized by the School of Advanced Sciences, VIT Chennai, Tamilnadu during 14-15, Dec 2015.

Title of the paper: **The Intersection Graph of Zero-Divisors of a Finite Commutative Ring.**

5. **Presented a paper in the “International Conference on Mathematical Sciences (ICMS-2015)”** held at Dept. of Mathematics, S.V. University, Tirupati, Andhra Pradesh during 13-15, July 2015.

Title of the paper: **Some Properties of the Intersection Graph for Finite Commutative Rings.**

### **Conferences at National Level**

1. **Presented a paper in the “XXVIII Congress of APTSMS & National Conference on Recent Trends in Pure and Applied Mathematics”** organized by Dept. of Mathematics, Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh during 6-8, Dec 2019.

Title of the paper: **Connectivity of the Intersection Graph of Zero-Divisors of the Commutative Ring.**

2. **Presented a paper in the “National Conference on Recent Advances in Mathematics and its Applications”** held at Dept. of Mathematics, S.V. University, Tirupati, Andhra Pradesh on 29<sup>th</sup>, Aug 2017.

Title of the paper: **Enumeration of Triangles in the Intersection Graph of Zero-divisors of the Ring  $Z_n$ .**

3. **Presented a paper** in the “**XXVI Congress of Andhra Pradesh Society for Mathematical Sciences and National Conference on Recent Advances in Mathematics**” organized by Dept. of Mathematics, Kakatiya University, Warangal, Telangana during 11-13, Aug 2017.  
Title of the paper: **Wiener Index of the Intersection Graph of Zero-divisors of the Ring  $Z_n$ .**
4. **Presented a paper** in the “**Silver Jubilee Congress of APSMS-2016 and National Conference on Emerging Trends in Mathematical Sciences and Applications in Engineering Sciences**” organized by N.B.K.R. Institute of Science and Technology, Vidyanagar, Andhra Pradesh during 9-11, Dec 2016.  
Title of the paper: **Compliment of the Intersection Graph of Zero-Divisors of a Finite Commutative Ring.**
5. **Presented a paper** in the “**2<sup>nd</sup> Andhra Pradesh Science Congress (APSC-2016)**” held at P.B. Siddhartha College of Arts and Sciences, Vijayawada, Andhra Pradesh during 7-9, Nov 2016.  
Title of the paper: **Wiener Index of the Intersection graph of Ideals of Rings.**
6. **Presented a paper** in the “**Two Day National Seminar on Recent Trends and Applications in Mathematics and Statistics**” organized by Dept. of Mathematics and Statistics, Pithapur Rajah’s Government College (Autonomous), Kakinada, Andhra Pradesh during 28-29, Sep 2016.  
Title of the paper: **Connectivity in the Intersection Graph of Ideals of Rings.**
7. **Presented a paper** in the “**National Conference On Mathematics and its Applications**” held at Dept. of Mathematics, S.V. University, Tirupati, Andhra Pradesh during 22-23, Dec 2015.  
Title of the paper: **Radius and Diameter in the Intersection Graph of Zero-divisors.**
8. **Presented a paper** in the “**XXIV Congress of APSMS & National Conference on Recent Developments in Mathematical Sciences and their Applications to Science and Technology**” Organized by Dept. Mathematics, Humanities and

Sciences, Vignana Bharathi Institute of Technology, Ghatkesar, Hyderabad, Telangana during 11-13 Dec 2015.

Title of the paper: **Degree and Edges in the Intersection Graph of Zero-Divisors.**

### **Workshops attended**

1. **Participated** in “**UGC Sponsored District Level Workshop on Facing the NAAC and the Role of Administrator to Attain Better Grade**” organized by IQAC & Academic Cell in Association with RJDCE, Rajahmundry on 13, Dec 2019.
2. **Participated** in the “**National Workshop on MATLAB in Applied Sciences**” organized by the Departments of Mathematics and Computer Science, MVN JS & RVR College of Arts and Science, Malikipuram on 9, Sep 2019.
3. **Participated** in “**Two Day National Level Hands on Workshop on Latex**” organized by Dept. of Applied Mathematics and Computer Science, SPMVV, Tirupati during 28-29, Mar 2018.
4. **Participated** in the ‘**Science Academies’ Lecture Workshop on “Applications of Differential Equations in Engineering and Biology**” held at Dept. of Mathematics, S.V. University, Tirupati during 9-11, Mar 2017.
5. **Participated** in the “**Pre-Conference Workshop on Recent Advances in Signed Graphs and their Applications**” organized by Dept. of Mathematics, Siddaganga Institute of Technology, Tumakuru during 6-8, June 2016.
6. **Participated** in a “**Two day Workshop on Research Methodologies and LATEX**” organized by Dept. of Mathematics, Madanapalle Institute of Technology and Science, Madanapalle during 21-22, Feb 2015.
7. **Participated** in the ‘**Science Academies’ Lecture Workshop on “Mathematical Modelling in Science and Engineering (SALW-2012)**” held at Dept. of Mathematics, S.V. University, Tirupati during 24-25, Jan 2012.

## Administrative Experience

- **Member** in NAAC Committee and Time Table NAAC Committee at SRR & CVR Government College (A), Vijayawada from 22.10.2021.
- **Lecturer In-Charge**, Department of Mathematics, P.R. Government College (A), Kakinada from 20.01.2020 to 23-09-2021.
- **Chairman of Board of Studies** in the Department of Mathematics, P.R. Government College (A), Kakinada for the Academic year 2020-2021.
- **Member of Board of Studies** in the Department of Mathematics, P.R. Government College (A), Kakinada for the Academic year 2019-2020.
- **Member** in Time Table Committee, IQAC Committee, Research Committee, Women Empowerment Committee and Endowment Prizes Committee in P.R. Government College (A), Kakinada from the Academic year 2019-2020 to the Academic year 2020-2021.