

Dr. D. MADHUSUDHANA RAO

Department of Mathematics

Government College for Women(Autonomous)

Guntur-522001, A.P. India.

Email : dmrmaths@gmail.com, dmr04080@gmail.com.

URL : https://www.researchgate.net/profile/Dasari_Rao2

Mobile : +9194403 58718, +917989467545.

PERSONAL PROFILE

Date of Birth : 04 – 08 – 1970

Designation : Professor

Date of Appointment

- 1) In the Institution : 05 – 02 – 1997
- 2) In the Present Post : 05 – 02 – 1997
- 3) As Head of the Department : 12 – 12 – 2012 to 10-02-2016.



Residential Address

Permanent : H.No: 22-16-1/F₃
Ganesh Plaza,
Desodharaka Street,
Kotha pet, Tenali-522201
Guntur (Dt), A.P. India.

Present : Flat No : 207,
SRK Land Mark,
Golidonka Road
Ithanagar, Tenali-522201
Guntur(Dt), A. P. India.

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Father's Name : D. Satyanarayana.

Mother's Name : D. Vijaya Lakshmi.

Dr. D. Madhusudhana Rao's Profile

Community : Backward Class

Marital Status : Married to D. YaminiLatha (B.A., B. Ed., M.A.(Hindi), M.S.W.)

Children : Two daughters.

URL : https://www.researchgate.net/profile/Dasari_Rao2

Or

: <http://livedna.org/97.7347>

IRCID ID : orcid.org/0000-0003-0897-868X



CAREER OBJECTIVES

To share my knowledge and experience with students and gain more experience into the education and teaching field.

To acquire any position in the college where I can use my good teaching skills for the better development of the students and growth of the organization.



QUALIFICATION

Educational Qualifications:

Sl.No:	Degree	Institute	Year
1	Ph.D. (Guide: Dr. A. Anjaneyulu)	University of AcharyaNagarjuna University Guntur, A. P. India.	2013 (highly commended by three examiners)
2	M.Phil.	MKU, Madurai, Tamil Nadu, India	2005
3	M.Sc.(Mathematics)	OsmaniaUniversity,	1993(First Class)

Dr. D. Madhusudhana Rao's Profile

		Hyderabad, A. P. India	
4	B.Sc. (Mathematics)	Hindu College, Guntur, A.P. India	1990
5	Intermediate	Bapatla College of Arts and Sciences, Bapatla, Guntur (Dt), A.P. India.	1987
6	SSC	NSZP High School, Cherukur, Parchuru (Md), Prakasam (Dt), A.P. India.	1985

Technical Qualification:

Sl.No:	Degree	Institute	Year
1	Diploma in Office Management	Softline Institute of Computer Education, Guntur, A.P. India.	2006
2	Training (Jawahar Knowledge Centre Training In "Global Skills Enhancement" Programme)	Conducted by INFOSYS-HYDERABAD and Organized by Commissionerate of Collegiate Education, Govt., of Andhra Pradesh, Hyderabad, India.	2008
3	Diploma in Computer Applications	GITAM University, VIZAG, A.P.	2015

WORK EXPERIENCE

Teaching:

- 1) Teaching Experience : **28 1/2 years.**
(24 1/2 years aided & 4 un aided years)
- 2) Classes Taught : B. Sc.
- 3) Subjects Taught : Taught Algebra, Trigonometry, Differential Equations, Real Analysis, Modern Applied Algebra, Numerical Analysis, and Developmental Mathematics
- 4) Regularity & Punctuality : Regular and Punctual



Dr. D. Madhusudhana Rao's Profile

- 5) Regularly assess and monitors the overall performance of students by conducting weekend assignments, Internal examinations and by interacting with the students in Staff guardianship / tutorial classes and by noting their performance in quiz, study projects ect and for enhancing communicative skills of students, student seminars, group discussions were conducted in the class rooms.



- 6) Conducted consulting classes for Educationally Backward Students. Contributed in Add on programmes, Certificate Courses on Quantitative and Numerical Ability as a value addition programme.
- 7) Question papers have been setting to several autonomous colleges like C. R. Reddy college, Eluru, W.G. Dist., Mary's stele college, Vijayawada, KBN College, Vijayawada, Loyola college, Vijayawada, ANR college, Gudivada, Krishna Dist., KGRL College, Bhimavaram, W.G. Dist., ect.,

Professional Experience:

Sl No	Institute	Post	Year
1	V.S.R & N.V.R. College, Tenali, A.P. India.	Lecturer in Mathematics	February 1997 to December 1997, November 2000 to June 2007 and 2008 June to 11 th September 2021
2	K.V.R. College, Nandigama, Krishna (Dt), A.P. India.	Lecturer in Mathematics	1997 December to 2000 Jan
3	K.R.K. Govt. Degree College, Addanki, Prakasam (Dt), A.P. India.	Lecturer in Mathematics	2007 June to 2008 June.
4	Acharya Nagarjuna University Nagarjuna Nagar, A.P. India.	Ph.D(Under FDP Sponsored by UGC)	2009 August to 2011 August
5	Government Degree College (A) (W)-Guntur, A. P. India	Lecturer in Mathematics	11 th September to till date

Any Other:

Sl No:	Institute	Position	Period
1	K.R.K. Govt. Degree College,	Mentor, JKC-	01-06-2007 to

Dr. D. Madhusudhana Rao's Profile

	Addanki, Prakasam (Dt), A.P. India	Training Centre.	31-05-2008.
2	V.S.R &N.V.R College, Tenali.	Convener, Certificate Course on Mathematical Skills.	25-11-2008 to 25-02-2009.
3	V.S.R &N.V.R College, Tenali.	Convener, Career Development Cell	2013-'14 and 2014-'15
4	V.S.R &N.V.R College, Tenali.	Convener, Staff Guardian Committee	2013-14
5	1) TJPS (TellakulaJalayyaPolisettySomasundar am) College Guntur, A.P. 2)Hindu college Guntur, Andhra Pradesh, India. 3) NRK & KSR Guptha College, Tenali, Guntur(Dt), A. P. 4) P. B. Sidhardha Academy – Vijayawada, A. P. 5) KVR Degree College, Khajipalem, Guntur(Dt), A.P. 6) SVRM College, Nagaram, Guntur(Dt), A.P. India. 7) Andhra Muslim College, Guntur, A.P. India.	Academic Advisor and Conduct Academic Audit by the orders of Commissioner ate of Collegiate Education, Government of Andhra Pradesh.	1) 25. 03. 2014, 2)27.03.2014 & 3)25-04-2016 4)2017-18 5)22-02-2019 & 23-02-2019, 6)25-02- 2019&26-02- 2019, 7)28-02-2019 & 1-03-2019 respectively
6	VSR & NVR College, Teanli	Training & Placement Officer- (Andhra Pradesh State Skill Development Corporation), Govt. Of Andhra Pradesh.	2017-18

COMPUTER KNOWLEDGE

- Proficient in basic use of computer.
- Internet Savvy.

PERSONAL QUALITIES

- Confident
- Excellent interpersonal skills.
- Strong analytical, logical and mathematical skills.
- Excellent communication skills in written and verbal both.
- Ability in clarifying the doubts.
- Keen observer
- Good listener
- Can teach the students as per their level.
- Computer savvy.
- Awareness about the various teaching techniques.
- In depth knowledge of the subjects.



Hobbies

- Internet surfing
- Making new friends
- Reading and writing research articles

STRENGTHS

- A self-motivated and organized professional skilled in achieving project goals.
- A dedicated team player, committed to provide support and full dedication to the organization.



AREA OF INTEREST

- Teaching & Research & Development (R&D)



RESEARCH

Area of specialization

: Pure Algebra
(A major part of my research work has been devoted to the use of semigroup, Gamma semigroup, duo gamma semigroup, partially ordered gamma semigroup and ternary semigroup, Gamma semirings and ternary semirings, Ternary Gamma Semigroups, Ternary Semirings, Ternary Gamma Semirings, Near rings, Near Semirings. Partially Ordered Semigroups, Partially ordered semirings, Partially ordered Gamma Ternary semigroups, Partially ordered Gamma Ternary Semirings, Fuzzy Semigroups, Fuzzy Semirings, Fuzzy gamma Semigroups, and Fuzzy Gamma Semirings ect).

Research Experience

: 12 $\frac{1}{2}$ years

Research Guidance: 1) Over 15 PhDs have been helped in research. 5 Ph.D. and 4 M.Phil. degrees are awarded under my guidance.



Dr. D. Madhusudhana Rao's Profile

2) In the academic year 2014-2015 Guiding 5 Ph. D. Scholars and 3 M. Phil. Scholars in Acharya Nagarjuna University, Nagarjuna Nagar, Guntur Dt, Andhra Pradesh, India.

3) In the academic year 2015-2016 Joined 1 Ph. D. Scholars in K. L. University, Green Fields, Vaddeswaram, Guntur Dt. Andhra Pradesh, India.

4) In the academic year 2015-16 1 Ph.D. Scholars have joined as teacher fellowship in XII plane period in Acharya Nagarjuna University, Nagarjuna Nagar, Guntur.

5) In the academic year 2016-17 two Ph.D. and one M. Phil Scholars have joined in department of Mathematics, Acharya Nagarjuna University Under my guidance.

LIST OF RESEARCH SCHOLARS AWARDED Ph.D./M. Phil.

Sl No	Name of the Scholar	Address	Course	Title of the Thesis/ Dissertation	Year of Ph.D/ M.Phil. awarded	University
1	Mr. G. Srinivas	Asst. Professor Tirumala Engineering College, Narasarao Pet, Guntur (Dt), A.P. India.	Ph. D.	Structure and Theory of Ternary Ideals in Ternary Semi rings	April-2016	ANU
2	Mr. P. Shiva Prasad	Asst. Professor, KL University, Green Field, Vaddeswaram, Guntur(Dt), A.P.	Ph. D.	The Algebraic Theory of Partially Ordered Ternary Semirings	Aug-2016	ANU
3	Sk. Shareef	Asst. Professor, Narasaraopet Engineering college Narasaraopet, Guntur(Dt).	M.Phil.	Algebraic Analysis of Γ - Ideals in Γ - Semigroups	Nov-2016	ANU
4	Mr. T. Satish	Asst. Professor, EM & H Dept. SRKR Engineering College, Bhimavaram, W.G. (Dt). A.P.	M. Phil.	A study on Γ - semigroups and Partially ordered Γ -semigroups	Nov-2017	ANU
5	Mrs. S. Pallavi	A.P.S.W.R.Jr. College, Blliparru, Pedana (M.D), Krishna (Dt)	M. Phil.	Ternary Ideals and Radicals in Ternary Semirings	2014-15	ANU

Dr. D. Madhusudhana Rao's Profile

6	Mrs. K. Anuradha	Flat No: 406, Saranak Towers, 4 th lane, NTR Colony, Vijayawada-8	M. Phil.	A Study on ternary Semirings	2019	ANU
7	Mrs. Sajani Lavanya	Department of Maths A.C. College, Guntur	Ph. D.	Classification of Ternary Γ -ideals in Ternary Γ -semirings	2019	ANU
8	Mrs. M. Vasantha	D. No: 26-5-55(1), Near Deaf & Dumb School, Balusumudi, Kummarlavari street, Bhimavarm, W. G. Dist, Pin: 534202	Ph. D.	Structure and Theory of Ternary Gamma Semigroups	2020	KLU
9	Ch.Srimanarayana	Dept. of Mathematics, TJPS College, Guntur	Ph.D.	Theory of Ternary and Le Ternary semigroups	2020	KLU

LIST OF RESEARCH SCHOLARS WHO SUBMITTED THEIR THESIS/ DISSERTATIONS:

Sl No	Name of the Scholar	Address	Course	Title of the Thesis/ Dissertation	Year of Submission	University

LIST OF RESEARCH SCHOLARS PURSUING:

Sl No	Name of the Scholar	Address	Course	Full Time/ Part Time	Year	University
1	Mr. K. Praveen kumar	H. No: 431, Rajeev Nagar Colony, Vijayanagaram, A.P.	Ph. D.	Part Time	2016-17	ANU
2	G. Srinivasa Rao	Jr Lcturer, A.P.S.W. Jr College, Kharpudi, Guntur (Dt), A.P	Ph.D.	Extramural	2018-19	ANU
3.	T. Satish	SRKR Engineering College, Bhimavaram, W.G. District, A.P.	Ph.D.	Part time	2016	ANU
4.	E. Meera Prasad	Deputy Transport Commissioner, Guntur District, A.P.	Ph.D.	Extramural	2019	KLU

Research Contributions:

A major part of my research work has been devoted to the use of semigroup, Gamma semigroup, duo gamma semigroup, partially ordered gamma semigroup and ternary semigroup, Gamma semirings and ternary semirings, Ternary Gamma Semigroups, Ternary Semirings, Ternary Gamma Semirings, Near rings, Near Semirings. Partially Ordered Semigroups, Partially ordered semirings, Partially ordered Gamma Ternary semigroups, Partially ordered Gamma Ternary Semirings, Fuzzy Semigroups, Fuzzy Semirings, Fuzzy gamma Semigroups, and Fuzzy Gamma Semiringsect,.

MEMORANDUM OF UNDERSTANDING

MOU for Mutual interest in the fields or research, training and development and dissemination of knowledge and increased contribution to social development with the following parties:

1. Department of Mathematics(Part of Department of S & H), GVVIT Engineering College, Tundurru, Bhimavaram, W. G. (Dt). A.P. India.
2. Department of Mathematics, Tirumala Engineering College, Jonnalagadda (vil), Narasaraopet, Guntur (Dt), A. P.
3. Department of Mathematics, Andhra Christian College, Guntur, A. P. India.
4. B. Rajesh Kumar, Lecturer in Mathematics, Department of General Section (Mathematics), Government Polytechnic, Parvathipuram, Vijayanagaram (Dt), A.P. India.

PUBLICATIONS

Editorial Ship:

- 1) Peer review member to the “**British Journal of Mathematics & Computer Science**”.
- 2) Member of **Asian Council of Science Editors, Membership No: 91.7347.**

- 3) Peer review member of “*International Journal of Mathematics and Computer Applications Research*”
- 4) Editorial Board Member of “*International Journal of New Technology and Research*”
- 5) Reviewer of “*Journal of Advances in Mathematics*”.
- 6) **Review Member of “International Journal of Computational Sciences and Information Technology (IMPACT:IJCSIT)”.**

Research Publications : 146
(International Journals)

Published : 144

Accepted : 02

LIST OF PUBLISHED PAPERS IN INTERNATIONAL JOURNALS:

In the year 2011:

1. **Prime Γ -Radicals in Γ -semigroup**(with A. Anjaneyulu and A. Gangadhara Rao) - International eJournal of Mathematics and Engineering 138 (2011) 1250-1259.
Website: www.internationaleJournals.com
2. **Pseudo Symmetric Γ -ideals in Γ -semigroups** (with A. Anjaneyulu and A. Gangadhara Rao)- International eJournal of Mathematics and Engineering 166 (2011) 1074-1081.
Website: www.internationaleJournals.com
3. **Semipseudo Symmetric Γ -ideals in Γ -semigroups**(with A. Anjaneyulu and A. Gangadhara Rao)– International Journal of Mathematical Sciences, Technology and Humanities 18 (2011) 183-192. Website: www.internationaleJournals.com
4. **$N(A)$ - Γ -semigroup**-(with A. Anjaneyulu and A. Gangadhara Rao) Indian Journal of Mathematics and Mathematical Sciences Vol. 7, No. 2, (December 2011) : 75-83.
(Indexing and Reviews: Mathematical Reviews, MathSciNet, Index Copernicus Zentralblatt für Mathematik, EBSCOhost, SCOPUS, Elsevier's bibliographic database, Ei databases index, EMBASE, EMCare, CAP International, and Indian Sciences Abstract).

5. **Pseudo Integral Γ -semigroup**(with A. Anjaneyulu and A. Gangadhara Rao)– International Journal of Mathematical Sciences, Technology and Humanities 12 (2011) 118-124. Website: www.internationaleJournals.com

In the year 2012:

1. **Primary and Semiprimary Γ -ideals in Γ -semigroups**(with A. Anjaneyulu and A. Gangadhara Rao)- International Journal of Mathematical Sciences, Technology and Humanities 29 (2012) 282-293. Website: www.internationaleJournals.com
2. **Prime Γ -ideals in Duo Γ -semigroups**(with A. Anjaneyulu and A. Gangadhara Rao)- International eJournal of Mathematics and Engineering 174 (2012) 1642-1653. Website: www.internationaleJournals.com
3. **Primary Decomposition in A Γ -semigroup**(with A. Anjaneyulu and A. Gangadhara Rao)-International Journal of Mathematical Science, Technology and Humanities 46 (2012) 466-479. Website: www.internationaleJournals.com
4. **Duo Chained Γ -semigroups**(with A. Anjaneyulu and A. Gangadhara Rao) – International Journal of Mathematical Science, Technology and Humanities 50 (2012) 520-533. Website: www.internationaleJournals.com
5. **Duo Noetheria Γ -semigroups**(with A. Anjaneyulu and A. Gangadhara Rao) - International eJournal of Mathematics and Engineering 178 (2012) 1688-1704. Website: www.internationaleJournals.com
6. **A Study on Co- Γ -Ideals in Γ -Semigroups**(with R. Srinivasa Rao and P. Rama Mohan Rao) – International Journal of Multidisciplinary Educational Research, Volume 1, Issue 2(1), June 2012, pp: 205-212. Website: www.ijmer.in
7. **On Strongly Γ -Cancellative Regular Γ -Semigroups**(with Mudda Ramesh and C. Ratna Mary) – International Journal of Multidisciplinary Educational Research, Volume 1, Issue 2(1), June 2012, pp: 72-80. Website: www.ijmer.in
8. **Partially Ordered Γ -semigroups**(with A. Anjaneyulu and VB Subramanyeswara Rao Seetamraju)-International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 1 Issue 6, August-2012. Website: www.ijert.org

Impact Factor :1.76.(2012-13),

Indexed in 1) **Googlr Scholar**, 2) arXivDatabase, 3) Research Gate, 4) UTeM(University Teknikal Malaysia Melaka), 5) BASE 6) getCITED 7) Research Bible, 8) UR, 9) WorldCat, 10) SCIRNS.

9. **Po- Γ -ideals in Po- Γ -semigroups**(with A. Anjaneyulu and VB SubramanyeswraRao Seetamraju)-International Organization Scientific Research Journal of Mathematics (IOSR-JM) ISSN: 2278-5728 Volume 1, Issue 6 (July-Aug 2012), pp 39-51.

Website: www.iosrjournals.org Impact Factor: 1.759.

Indexed in 1) NASA - Astrophysics Data System (ADS) Digital Library, 2) CrossRef, 3) arXivDatabase, 4) Cabell Publishing, Inc., 4) Index Copernics, 5) J-Gate, 6) Ulrich Web, 7) Ebsco Host, 8) Google Scholar, 9) ANED-DDL (Digital Data link), 10) Jour Informatics.

10. **Po- Γ -Filters in Po- Γ -semigroups**(with A. Anjaneyulu and VB SubramanyeswraRao Seetamraju)-International Journal of Mathematical Science, Technology and Humanities 62 (2012) 669-683.

Website: www.internationaleJournals.com

11. **Pseudo Symmetric Ideals In Ternary Semigroups**(with A. Anjaneyulu and Y. Sarala)-International Refereed Journal of Engineering and Science (IRJES) ISSN (Online) 2319-183X, (Print) 2319-1821, Volume 1, Issue 4(December 2012), pp. 33-43. Website: www.irjes.com Impact Factor: 2.31.

Indexed in 1) Google Scholar, 2) Open J-Gate, 3) Ulrich Web, 4) Index Copernics, 5) Cabell's Directories, 6) Jour Informatics.

In the year 2013 :

1. **Γ -Congruence and $\mathfrak{N}$ -Classes in Po- Γ -semigroups**(with A. Anjaneyulu and VB SubramanyeswraRaoSeetamraju)-International eJournal of Mathematics and Engineering 205 (2013) 1975-1993. Website: www.internationaleJournals.com

2. **Ternary Semigroups**(with A. Anjaneyulu and Y. Sarala)-International Journal of Mathematical Science, Technology and Humanities 76 (2013) 848-859.

Website: www.internationaleJournals.com

3. **Ideals in Ternary Semigroups**(with A. Anjaneyulu and Y. Sarala)- International eJournal of Mathematics and Engineering 203 (2013) 1950-1968.

Website: www.internationaleJournals.com

4. ***Prime Radicals in Ternary Semigroups***(with A. Anjaneyulu and Y. Sarala)- International Organization Scientific Research Journal of Mathematics (IOSR-JM) ISSN: 2278-5728 Volume 4, Issue 5 (Jan.-Feb. 2013), pp 43-53.
Website: www.iosrjournals.org (Impact Factor: 1.759).
Indexed in 1) NASA - Astrophysics Data System (ADS) Digital Library, 2) CrossRef, 3) arXivDatabase, 4) Cabell Publishing, Inc., 4) Index Copernics, 5) J-Gate, 6) Ulrich Web, 7) Ebsco Host, 8) Google Scholar, 9) ANED-DDL (Digital Data link), 10) Jour Informatics.
Paper Indexed: **ANED(American National Engineering Database)** and ANED-DDL(Digital Data Link) Number is **24.5728/iosr-jm-G0454353**, Link: www.aned.us
5. ***Pseudo Integral Ternary Semigroups***(with A. Anjaneyulu and Y. Sarala) – Asian Journal of Current Engineering and Maths 2:1 Jan-Feb (2013) 40-43.
Website: www.innovativejournal.in
Indexed in 1) Ebsco Host, 2) CrossRef, 3) editage, 4) Thomson Reuters.
6. ***U-ternary semigroups and V-ternary semigroups*** (with Ch. ManikyaRao) – International Journal of Innovative Research & Development, Vol 2, Issue 5, May, 2013, pp 842-849. Website: www.ijird.com

Indexed in 1) Google Scholar, 2) DOAJ (Directory of Open Access Journals), 3) BASE (Bielefeld Academic Search Engine), Germany, 4) Open J-Gate, India, 5) Ulrich's, USA, 6) EZB, Germany, 7) DRJI (Directory of Research Journal Indexing), 8) IIFS (International Impact Factor Services)
7. ***Ternary semigroups in which prime ideals are maximal and primary ideals are prime and maximal*** (with Ch. ManikyaRao) – Elixir Advances in Pure Mathematics. 59(2013) 15368 – 15374. Website: www.elixirpublishers.com
Impact Factor: **PIF(Publication Impact Factor): 6.025**
GIF(Global Impact Factor): 0.454.
ICV Value: 80.82 .

Indexed in 1)Directory of Open Access Journal (DOAJ), Sweden, 2) Open-J-Gate, India, 3) NewJour-Georgetown University Library, USA, 4) The Open Access Digital Library, USA, 5) Lenide Journals, 6) Dayang journal system, Korea, 7) Science central, USA, 8) San Jose State University Library, USA, 9) Google Scholar, 10) Chemical Abstracts Service (CAS), USA, 11) Socolar, China, 12) EBSCO Publishing Inc, USA, 13) Thomson Reuters, USA, 14) Embase and Elsevier, 15) I2OR, 16) COSMOS.
8. ***Primary ideals in Ternary semigroups*** (with A.Anjaneyulu and G. HanumantaRao) - International eJournal of Mathematics and Engineering 218 (2013) 2145 - 2159.
Website: www.internationaleJournals.com

9. **On Regular Duo Ternary Semigroups** (with Mudda Ramesh and K. Padmavathi) – International Journal of Multidisciplinary Educational Research, Volume 2, Issue 7(3), June 2013, pp: 78-87. Website: www.ijmer.in

10. **$N(A)$ – Ternary semigroups**- African Journal of Mathematics and Computer Science Research, Vol. 6(7), pp. 149-155, July, 2013.
Website: <http://www.academicjournals.org/AJMCSR>
Indexed in 1) [EZB](#), 2) [Genamics Journal Seek](#), 3) [Google Scholar](#), 4) Open J-Gate, 5) [WorldCat](#).

11. **Primary Ideals in Quasi-Commutative Ternary Semigroups** – International Research Journal of Pure Algebra – 3(7), 2013, 254-258. Website: www.rjpa.info
Indexed in 1) [INDEX COPERNICUS](#), 2) [SOCOLAR](#), 3) [SCIRUS](#), 4) [DOAJ](#), 5) [CAS](#), 6) [SPARC](#), 7) [ScopeMed](#), 8) [OPEN J-GATE](#), 9) [EMBASE](#), 11) [INDIANSCIENCE.IN](#), 12) [Science Central.com](#), 13) [THOMSON REUTERS](#)

12. **T -Homomorphism of semispaces in Ternary semigroups**(with Ch. ManikyaRao and P. KoteswaraRao) –International Journal of Engineering & Science, Volume 2, Issue 7, Pages 01-06, 2013. Website: www.theijes.com,
Indexed in 1) [INDEX COPERNICUS](#), 2) [Google Scholar](#), 3) [arXivDatabse](#), 4) [EBSCO Publishing Inc, USA](#), 5) [Cabell's Directories](#), 6) [Jour Informatics](#), 7) [Open J-Gate](#), 8) [Eropeana Libraries](#).
Paper Indexed:[ANED\(American National Engineering Database\)](#) and [ANED-DDL\(Digital Data Link\)](#) Number is [09.1913/02760106](#), Link: www.aned.us

13. **Primary Ideals in Quasi-Commutative Semigroups** –Asian Academic Research journal of Multidisciplinary, Volume 1, Issue 13, September 2013, pp 28-36.
Website: www.asianacademicresearch.org
Indexed in Thomson Reuter Researcher and many more.
Impact Factor: Index Copernicus(ICV): 5.05.
International scientific Indexing(ISI):1.023.
International Society For Research Activity(ISRA): 2.015.
Global Impact Factor(GIF): 0.50.

14. **Primary Γ -ideals in quasi-commutative Γ -semigroups** – International Journal of Current Research, Vol 5, Issue 12, pp. 4199-4204, December, 2013.
Website: <http://www.journalcra.com>
Indexed in Thomson Reuter Researcher and many mor.
SJIF Scientific Journal Impact Factor 2015: 6.226(2015), Quality Impact Factor (2014): 3.52.
Index Copernicus Value: 6.24.

In the year 2014:

1. ***A Study on d-System, m-System and n-System in Ternary Semigroups*** – International Journal of Development Research, Vol. 4, Issue 1, pp. 195-199, January, 2014. Website: <http://www.journalijdr.com> Indexed Journal.
(SJIF)Scientific Journal Impact Factor (2014): 3.686,
(SJIF)Scientific Journal Impact Factor (2015): 4.25.
2. ***Semipseudo Symmetric Ideals in Partially Ordered Ternary Semigroups***(with V. Jyothi and Y. Sarala) – International Journal of Innovative Research & Development, Vol 3, Issue 4, pp. 386-393, April, 2014. Website: www.ijird.com
Indexed Journal see paper No:6 in the year 2013.
3. ***Lateral t-system of m-semispaces in ternary semi groups***-Journal of Mathematics and Computer Science,accepted for publication, October 2014.But Available on line from 31st October 2014 onwards as articles in press.
4. ***Special Elements in Ternary Semirings***(with G. SrinivasaRao)-International Journal of Engineering Research and Applications, Vol 4, Issue 11, Version 5, November 2014. Website: www.ijera.com Impact Factor: 1.69, and IC Value: 5.69.

[Indexed in EBSCO Host, Pro Quest, Google Scholar, DOAJ, Index Copernicus International and many more.](#)

Paper Indexed:[ANED\(American National Engineering Database\)](#) and ANED-DDL(Digital Data Link) Number is [01.9622/41105123130](#), Link: <http://www.aned.us>
5. ***Maximal Ordered Left ideals in Ordered Ternary Semigroups*** (with P. Bindu and Y. Sarala) -International Refereed Journal of Engineering and Science(IRJES), Volume 3, Issue 11 (November 2014), pp.12-15. Website: www.irjes.com
[Indexed Journal and Impact Factor Journal for details see paper 9 in 2012.](#)
6. ***Concepts on Ternary Semirings***(with G. SrinivasaRao)-International Journal of Modern Science and Engineering Technology (IJMSET), Volume I, Issue 7, 2014, pp.105-110. Website: <https://www.ijmset.com>
[Impact Factor \(SJIF\): 3.094, Indexed Journal.](#)
7. ***A Study on Ternary semirings***(with G. SrinivasaRao)–International Journal of Mathematical Archive-5 (12) December-2014, pp. 24-30. Website: www.ijma.info

Impact Factor (SJIF): 4.091. ICV:5.09.

8. ***A Note of Right Ideals of Ordered Semigroups***(with Jaya Lalitha. G and Sarala. Y)- Global Journal of Pure and Applied Mathematics, Volume 10, Number 5, (2014), pp. 707-710. Website: <http://www.ripublication.com>
Indexed in **SCOPUS**, Mathematical Reviews, MathSciNet, Zentralblatt MATH and EBSCO databases.

In the year 2015:

1. ***Structure of Certain Ideals in Ternary Semirings***(with G. SrinivasaRao)- International Journal of Innovative Science and Modern Engineering(IJISME), Volume-3, Issue-2, January 2015.Website: <http://www.blueeyesintelligence.org>
Impact Factor (2015): 2.49. and indexed more than 42 database companies.
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4. T. Satish, D. Madhusudhana Rao, M. Vasantha, K. Anuradha, Fuzzy Soft Ternary Γ -Semirings-I, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-1S3, June 2019, pp: 325-327.
5. B. Ravi Kumar, D. Madhusudhana Rao, T. Satish, B. Sankara Rao, M. Vasantha, Soft Ternary Γ -Semirings-II, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-1S3, June 2019, pp: 328-331.
6. B. Ravi Kumar, B. Sankara Rao, D. Madhusudhana Rao, P. Siva Prasad, M. Vasantha, On Soft Ternary Γ -Semirings-I, IOP Conf. Series: Journal of Physics: Conf. Series 1344 (2019) 012023 IOP Publishing doi:10.1088/1742-6596/1344/1/012023, pp: 1-7.

7. T. Satish, D. Madhusudhana Rao, P. Sivaprasad, M. Vasantha, Fuzzy Soft Ternary Γ -Semirings-II, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1S5, December, 2019. Pp: 235-239.
8. G. Srinivasa Rao, D. Madhusudana Rao, P.Sivaprasad, Elementary Ideals in Tsemi-Rings Andn(A)-Tsemi-Ring, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-1S5, December, 2019. Pp:258-266.

In The Year 2020:

1. T. Satish, D. Madhusudhana Rao, M. Vasantha, K. Praveen Kumar, Fuzzy Soft Ternary Γ -Semirings-III, Mukta Shabd Journal Volume IX, Issue IV, APRIL/2020 ISSN NO : 2347-3150. Pp: 2396-2406.
2. T. Satish, D. Madhusudhana Rao, K. Praveen Kumar, M. Sajani Lavanya, Fuzzy Soft Ternary Γ -Semirings-IV, Mukta Shabd Journal Volume IX, Issue IV, APRIL/2020 ISSN NO : 2347-3150. Pp: 2550-2560.
3. G.Srinivasa Rao, k.Mahalakshmi, P.Siva Prasad, D.Madhusudhana Rao, N.Srinivasa Rao, Ternary Semi Unit Graphs of Commutative Ternary Semirings, TEST Engineering & Management, March - April 2020 ISSN: 0193-4120 Page No. 18254 – 18263.
4. P. Siva Prasad , G. Srinivasa Rao, D. Madhusudhana Rao, K. Revathi, Semi Space Homomorphism in Γ – Semi Groups, International Journal of Advanced Science and Technology Vol. 29, No. 6, (2020), pp. 5262 – 5265.
5. K. Praveen Kumar, P. Siva Prasad, D. Madhusudhana Rao, M. Vasantha, Congruence's on Ternary Gamma Semirings-1, Mukta Shabd Journal Volume IX, Issue VII, JULY/2020 ISSN NO : 2347-3150. Pp: 2497-2504.
6. K. Praveen Kumar, P.Siva Prasad, D.Madhusudana Rao, Ch. Srimannarayana, Congruence's on Ternary Gamma Semi Rings-II, Juni Khyat ISSN: 2278-4632 (UGC Care Group I Listed Journal) Vol-10 Issue-7 No. 16 July 2020. PP: 48-55.

7. E. Meera Prasad, D. Madhusudhana Rao, G. Suresh Kumar, and M. Vasantha-**Fuzzy Soft Bi-Ideals Over Ternary Gamma Semirings**, Advances in Mathematics: Scientific Journal, **9** (2020), no.12, 10145–10154.<https://doi.org/10.37418/amsj.9.12.6>

In The Year 2021:

1. A. Nagamalleswara Rao, L. N. P. Varma, G. Srinivasa Rao, D. Madhusudhana Rao, and Ch. Ramprasad- **Bi-Interior Ideals In TGSr**, Advances in Mathematics: Scientific Journal, **10** (2021), no.3, 1183–1195. <https://doi.org/10.37418/amsj.10.3.8>
2. A. Nagamalleswara Rao, P. L. N. Varma, G. Srinivasa Rao, D. Madhusudhana Rao and Ch. Ramprasad- **Prime bi-interior G-ideals of TG-semiring**, Malaya Journal of Matematik, Vol. 9, No. 1, 542-546, 2021. <https://doi.org/10.26637/MJM0901/0091>
3. P.Siva Prasad¹, K.Revathi, K.V.Ranga Rao, D.Madhusudana Rao and Y. HariKrishna **Some Notions of Regular Fuzzy Graph of Ternary Semigroups**, Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 4, 2021, Pages. 9375 – 9384. <http://annalsofrscb.ro>.
4. T. Anuradha, D. Madhusudhana Rao, V. Lakshmi Prasannam, P.Siva Prasad **Structure Of Regular And Idempotent Ternary Semi Hyper Rings**, Turkish Journal of Physiotherapy and Rehabilitation; **32(3)** ISSN 2651-4451 | e-ISSN 2651-446X, pp: 10266-10270. www.turkjphysiotherrehabil.org.
5. K. Lingeswara Rao,, P. Siva Prasad, D. Madhusudhana Rao, K. Ravathi- **On Hyperfilters in Ternary Semihyperring**, Turkish Journal of Physiotherapy and Rehabilitation; **32(3)** ISSN 2651-4451 | e-ISSN 2651-446X, pp: 10271-10275. . www.turkjphysiotherrehabil.org
6. K. Praveen Kumar. P. Siva Prasad, D. Madhusudana Rao, T.Satish- Congruence on Ternary Gamma Semirings-III, Turkish Journal of Physiotherapy and Rehabilitation; **32(3)** ISSN 2651-4451 | e-ISSN 2651-446X, pp: 10276-10283. . www.turkjphysiotherrehabil.org
7. K. Maha lakshmi, P. Siva Prasad, D. Madhusudana Rao- Fuzzy Ternary Gamma Semi Superrings, Turkish Journal of Physiotherapy and Rehabilitation; **32(3)** ISSN 2651-4451 | e-ISSN 2651-446X, pp: 10284-10290. www.turkjphysiotherrehabil.org

8. A. Nagamalleswara Rao, P.L.N. Varma, G. Srinivasa Rao, D. Madhusudhana Rao, Ch. Ramprasad - **Bi-Ideals, Quasi Ideals and Minimal Bi-Ideals in Ternary Gamma Semirings**, Mukta Shabd Journal, Volume X, Issue VIII, AUGUST/2021, pp: 869-880.
9. K. Lingeswara Rao, P. Siva Prasad, D. Madhusudhana Rao-**Characteristics of Hyper Ideals in Ternary semi Hyper Rings**, Nat.Volatiles & Essent.iols, 2021; 8(5): 5451-5459, December 2021.
10. M. Jaya Rami Reddy, P. Siva Prasad, D. Madhusudhana Rao-**Pseudo Integral near Subtraction Semi Groups**, Nat.Volatiles & Essent.iols, 2021; 8(5): 5422-5426, December 2021.
11. P. Bindhu, Y. Sarala, D. Madhusudhana Rao and T. Srinivasa Rao-**Weakly Prime Ideals in Ternary Semigroups**, Communicated to International Journal of Pure and Applied Mathematics (Manuscript ID: 3737).
12. K. Anuradha, D. Madhusudhana Rao, M. Vasantha and T. Satish-**Structure of Trio Ternary Semirings**, Communicated to International Journal of Pure and Applied Mathematics(Manuscript ID: 3801).
13. P. Siva Prasad, G. Srinivasa Rao and D. Madhusudhana Rao-**Completely Prime, Prime, Completely Semiprime, Semiprime PO-ternary Ideals in PO-Ternary Semirings**-Communicated to Indian Journal of Science and Technology.
14. P. Bindu. Y. Sarala, D. Madhusudhana Rao-**Complete Two Sided Ideals in Ternary Semigroups**, accepted for publication in International Journal of Pure and Applied Mathematics (Manuscript ID: AP2016-31-211).

REFRESHER COURSES/ORIENTATION COURSES

- | | |
|---------------------------------|------|
| 1) Refresher Courses Attended | : 04 |
| 2) Orientation Courses Attended | :01 |

LIST OF REFRESHER COURSES AND ORIENTATION COURSES ATTENDED:

1. ***U.G.C. Sponsored Refresher Course in Mathematics***, Organized by Department of Mathematics, AcharyaNagarjuna University, Nagarjuna Nagar, A.P. India, from 01-12-2001 to 21-12-2001.
2. ***U.G.C. Sponsored Orientation Programme***, Organized by University Grants Commission Academic Staff College, Sri Venkateswara University, Tirupati, A.P. India, from 21-04-2003 to 17-05-2003.
3. ***U.G.C. Sponsored Refresher Course in Environmental Studies***, Organized by University Grants Commission Academic Staff College, Osmania University, Hyderabad, A.P. India, from 20-07-2006 to 10-08-2006.
4. ***U.G.C. Sponsored Refresher Course in Mathematics (Operations Research & Quantitative Techniques)***, Organized by University Grants Commission Academic Staff College, Sri Venkateswara University, Tirupati, A.P. India, from 23-11-2009 to 12-12-2009.
5. ***U.G.C. Sponsored Refresher Course in Information Technology***, Organized by University Grants Commission Academic Staff College, Sri Venkateswara University, Tirupati, A.P. India, from 21-06-2010 to 10-07-2010.

ACHIEVEMENTS

National Seminars/ Conferences/workshops:

1) Organised	:03
2) Attended	: 80
National	: 65
International	:15
3) No. Of Papers presented	:28
National	:21





LIST OF INARS/CONFERENCES/WORKSHOPS ORGANISED:

NATIONAL:

Organised a National Conference on “**ALGEBRA AND ITS APPLICATIONS WITH LATEST TRENDS**” in the Department of Mathematics, V.S.R & N.V.R. College, Tenali, A.P. India in 2008.

Organised a National workshop as convener on ‘**LATESFT DEVELOPMENTS IN ALGEBRA AND ITSAPPLICATIONS**’ in Department of Mathematics, V.S.R &N.V.R. College, Tenali, A.P. India in 2014.

Organised a UGC Sponsored Two-day National workshop as Member in Advisory Committee on ‘**RECENT TRENDS IN ALGEBRA AND ITS APPLICATIONS**’ in Department of Mathematics, K. B. N. College, Vijayawada, A. P. India in 2015.

INTERNATIONAL:

Chaired a Technical Session in the International Conference held at Department of Mathematics, University of Kerala, Kerala, India, November 26-28, 2015 in collaboration with International Multidisciplinary Research Foundation.

LIST OF SEMINARS /CONFERENCES /WORKSHOPS PARTICIPATED/ PAPER PRESENTATIONS:

National : 64

International : 15

In the year 2002

1. AIFUCTO's XXIII Annual National Academic Conference on ‘**The Need To Protect and Strengthen Public Funded Education System**’ held on 25th, 26th& 27th October 2002, at Kala Academy, Panaji, Goa. Hosted and Organised by University and College Teachers’ Association, Goa.



In the year 2003

1. U.G.C. Sponsored Seminar on “**Global water resources and Sustainable ground water Management**” on 30th& 31st July 2003, Organised by J.M.J. College for Women, Tenali, A.P. India.

In the year 2004

1. Two-Day Mega Workshop on “**Real Analysis**” organised by Department of Mathematics, Sri DurgaMalleswara Siddhartha MahilaKalasala, Vijayawada, A.P. India on 27th& 28th November, 2004.

In the year 2005

1. A.P. State Council of Higher Education (APSCHE)& ACTA – A.P.Jointlyorganised State Level Seminar on “**Standardisation of Curriculum at UG&PG Level Courses**” on 12th November, 2005 at Andhra Loyola College (Autonomous), Vijayawada, A.P. India.

In the year 2006

1. U.G.C. Sponsored National Seminar on “**Women Empowerment**”on 15-02-2006Organised by Department of Economics, K.T.R. Women’s College, Gudivada, A.P. India.
2. Regional workshop on “**Analysis and Solid Geometry**”on 6th and 7th July 2006 organised by the Department of Mathematics, JMJ College for Women, Tenali, A.P. India.
3. A National Seminar cum Workshop on “**Vedic science**” on 21st December 2006, organised by Chemistry Association, V.S.R & N.V.R. College, Tenali, A.P. India.

In the year 2007

1. Council of Scientific & Industrial Research, New Delhi Sponsored National Seminar on ***“Recent Advances in Combinatorics, Graphs and Codes and their Applications”*** held during January 25th, 26th and 27th, 2007. Organised by Sir CRR Institute of Mathematics & PG Department of Mathematics, Sir CRR Autonomous College, Eluru, W.G. Dt. A.P. India.
2. National Seminar on ***“Indispensability of Yoga, Meditation and Energy for all Human Beings for Perfect Health”*** Organised by V.S.R & N.V.R. College, Tenali, A.P. India, on 24th and 25th February, 2007.
3. NAAC Sponsored National Seminar on ***“Healthy Practices, Their Impact and Students Participation”*** Organised by Internal Quality Assurance Cell, V.S.R & N.V.R College, Tenali, A.P. India, and Presented a paper entitled ***“Teaching Methods: Range and Variety”*** on 27th and 28th February, 2007.
4. U.G.C. Sponsored National Seminar on ***“Emancipation and Empowerment of Indian Women”*** Organised by Department of History, C. R. College, Chilakaluripet, A.P. India, on 13th and 14th August, 2007 and Presented a paper entitled ***“Emancipation and Empowerment of Indian Women”***.
5. NAAC Sponsored National Seminar on ***“Implementation of Knowledge Commission’s Recommendations on Enhancement of Quality Education”*** and Presented a paper entitled ***“NKC’s Expectations and Reality on Enhancement of Quality Education”*** on 19th and 20th December 2007, Organised by IQAC, Government College (A), Rajahmundry, A.P. India, held at Govt., College (A), Rajahmundry, East Godavari Dt, A.P. India.

In the year 2008

1. NAAC Sponsored National Seminar on ***“Role of Internal Quality Assurance Cell in Sustenance and Enhancement of Quality Education in Post Accreditation Scenario – Challenges”*** and presented a paper entitled ***“Quality Enhancement Measures in Higher Education”*** Organised by JawaharBharati Degree and P.G. College, Kavali, A.P. India, on 27th and 28th January 2008.

2. UGC Sponsored National Conference on ***“Algebra and Its Applications with Latest Trends”*** and presented a paper entitled ***“Various Methods to Create Interest in Research and Develop the Communication Skills in Mathematics”*** Organized by Department of Mathematics, V.S.R & N.V.R. College, Tenali, Guntur Dt., A.P. India, on 11th and 12th September 2008.
3. National Seminar on ***“Autonomy in Principle and Autonomy in Practice”*** and presented a paper entitled ***“Qualities and Characters of a Teacher”*** Organized by V.S.R & N.V.R College, Tenali, A.P. India, on 6th December 2008.
4. UGC Sponsored National Seminar on ***“Privatization of Higher Education in Developed and Developing Countries”*** and presented a paper entitled ***“Privatisation of Higher Education in India Constitutional Perspectives and Challenges”*** Organized by IQAC, JagarlamudiKuppuswamyChoudary College, Guntur, A.P. india, held on 29th December 2008.

In the year 2009

1. University Grants Commission & Alumni Association Sponsored National Seminar on ***“The Enhanced Responsibilities of the Teacher in The Global Context”*** and presented a paper entitled ***“Responsibilities of the College Teacher”*** Organised by Internal Quality Assurance Cell & Department of Economics, V.S.R & N.V.R College, Tenali, A.P. India, held on 28th February 2009.
2. University Grants Commission & Alumni Association Sponsored National Seminar on ***“Ragging and Value Crisis”*** and presented a paper entitled ***“The Verdict of S.C. Regarding Ragging”*** Organised by Internal Quality Assurance Cell & Department of Commerce, V.S.R & N.V.R College, Tenali, A.P. India, held on 13th November 2009.
3. University Grants Commission & Department of Science and Technology Sponsored Andhra Pradesh Society for Mathematical Sciences XVIII Congress & National Conference on ***“Mathematical Solutions Using Soft Computing for Problems in Science and Technology”*** and presented a paper entitled ***“A Study on Semirings”*** Organised by Department of Mathematics & Statistics, Mrs. A. V. N. College, Vishakhapatnam, A. P. India, held on 11th, 12th and 13th December, 2009.

In the year 2010

1. Participated Indian Mathematical Year – 2009 Scheme, Department of Science and Technology, Government of India, New Delhi Sponsored National workshop on **“Ancient Indian Mathematics with Special Reference to Vedic Mathematics and Astronomy”** Organized by Department of Mathematics, Rashtriya Sanskrit Vidyapeetha, Tirupati, A.P. India, held during 20-24 September 2010.
2. Participated in UGC Sponsored National Conference on **“Impact of Biotechnology on the Sustainability of Environment”** and presented a paper entitled **“Probiotics”** Organised by the Department of Zoology, V.S.R & N.V.R College, Tenali, A.P. India, held on 19th November, 2010.

In the year 2011

1. Participated in UGC Sponsored Two-day National Seminar on **“Present Trends in Algebra and its Applications”** and presented a paper entitled **“ $N(A)$ – Semigroups”** Organised by the Department of Mathematics, J.M.J. College for Women, Tenali, (in Collaboration with the Department of Mathematics, Acharya Nagarjuna University), A.P. India, held on 11th and 12th July, 2011.

In the year 2013

1. Participated in University Grants Commission & Alumni Association Sponsored National Seminar on **“Learner Centered Learning and Involvement of Students in Quality Assurance”** Organised by Internal Quality Assurance Cell, V.S.R & N.V.R College, Tenali, A.P. India, held on 30-01-2013.

In the year 2014 :(05)

1. Participated in Two day National Seminar at Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous) – Vijayawada on **“Recent Advances in Mathematics and Computer Science – Applications in Technology, Cryptology, Quality and Business (RAM-2014)”** organised on 25th & 26th April, 2014 under TEQIP – II SC 1.2.

2. Participated in UGC Sponsored Two day National Workshop on ***“Latest Developments in Algebra and its Applications”*** and Presented a paper entitled ***“ $N(A)$ - Γ -semigroup”*** Organized by the department of Mathematics, Tellakula Jalayya Polisetty Somasundaram College, Guntur, held on 24th & 25th November 2014.
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3. Participated in Department of Science and Technology, Government of India, New Delhi Sponsored five day National Workshop on ***“Bhaskaracharya: Life and Works”*** Organized by Department of Mathematics, Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh, held on 8-12 December, 2014.
 4. Participated in “XXIII Congress of APSMS and National Conference on Mathematics” Organised by Department of Science & Humanities, Vignan’s University, and presented a paper ***“Pseudo symmetric Γ -Ideals in Γ -semigroups”*** held at Vignan’s Foundation for Science, Technology & Research University, Vaddlamudi, on 12-14 December 2014.
 5. Participated in UGC Sponsored Two Day National Seminar on ***“Recent Developments in Mathematics and its Applications”*** Organised by Department of Mathematics, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, A.P. held on 22nd & 23rd December, 2014.

In the year 2015

NATIONAL: (06)

1. Participated in UGC(Autonomy Fund) and Alumni Association Sponsored One Day National Seminar on ***“Eradication of Pollution The Role of Science”*** Organised by IQAC and Department of Chemistry, V. S. R. & N. V. R. College, Tenali, Guntur(Dt), A.P. held on 8th January 2015.
2. Participated in UGC Sponsored National Workshop on ***“Recent Trends in Algebra and its Applications-2015”*** and presented a paper ***$N(A)$ -Ternary Semigroup***. Organised by Department of Mathematics and Statistics, K.B.N. College, Vijayawada, in Collaboration with Krishna University, Machilipatnam, held on 19th and 20th February 2015.

3. Participated in NBHM Sponsored National Conference on **“Women in Mathematics with Special Reference to Lilavati”** and presented a paper entitled **“Lateral Ideals in Ternary Semigroups”** Organised by Department of Mathematics(PG & UG), Maris Stella College(Autonomous), Vijayawada-520008, Andhra Pradesh, held on 20th and 21st February, 2015.
4. Participated in National Workshop on **“Essence of Mathematics and Engineering Applications(EMEA-2015)”** Organised by Department of Mathematics, K L University, Green Fields, Vaddeswaram, Guntur Dist., A.P. held on 26th and 27th of March 2015.
5. Participated in UGC, IQAC and Alumni Association one day National Seminar on **“Soft Skills for Survival and Success in Career and Life”** Organised by Department of English, VSR & NVR College, Tenali, A. P. held on 30th September-2015.
6. Participated in the **“one day workshop on Mathematics-Degree New Syllabus-CBCS Pattern”**Sponsored by Deepti Publications, Tenali, Guntur (Dt), Andhra Pradesh, India and Organised by the Department of Mathematics, Andhra Christian College, Guntur on 11th October 2015.

INTERNATIONAL:

1. Participated in the **International Conference on Mathematics-2015** held at Department of Mathematics, University of Kerala, Thiruvananthapuram, Kerala, on 26-28, November, 2015, and Presented two papers titled

1) Concepts on Strongly Γ -Cancellative Regular Γ -Semigroups.

2) Maximal Ideal of Compact Connected Topological Ternary Semigroups.



In the year 2016

NATIONAL:

1. Participated in the National Seminar on Green Chemistry for a Sustainable and Healthy Economy organized by Department of Chemistry, VSR & NVR College,

Tenali. Sponsored by U.G.C. Alumni Association and presented a paper on Green Chemistry: Need of the Future on 23-01-2016.

INTERNATIONAL: 02)

1. Participated in the **02-Days International Conference on Recent Innovations in Engineering, Science, Humanities and Management** held at Gayatri Vidya Parishad College for Degree and PG Courses, Rushikonda, Vishakapatnam, Andhra Pradesh, India, on 11th-12th, August, 2016, and Presented a paper titled **Primary Ternary Γ -Ideals in Ternary Γ -Semigroups**.
2. Participated in the **International Conference on Mathematical Sciences & Engineering Application (ICMSA-2016)** held at Baba Institute of Technology & Sciences (BITS-VIZAG), Andhra Pradesh, India, on 23rd -25th December 2016, and delivered an invited talk titled **“On The Topological Structures on Ternary Γ -Semirings”**.



In the year 2017

National: (4)

1. Participated in **“One day Workshop on Online Courses, Development of Pedagogy and E-Content”** organised by Government College for Women(A), Guntur, Andhra Pradesh, India, on 20th January 2017
2. Participated in the **“9th National Conference On Mathematical Techniques and Applications (NCMTA-2017)”** held at Department of Mathematics, SRM University, Khatamkulatur, Chennai Tamil Nadu, India on 27th and 28th January-2017 and presented a paper **On Strongly Duo and Duo Left Γ -TS-Acts over ternary Γ -semi groups**.
3. Participated in **“Two day National Workshop on Advanced Optimization Techniques Through MATLAB (AOTM-2017)”** under TEQIP-II S.C.1.2.

Organized by Department of Mathematics, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada-520007, Andhra Pradesh, India, held on 10th & 11th March 2017.

4. Participated in “**A Two day UGC Sponsored National Conference on Modern Trends in Pure Mathematics**” Organized by Department of Mathematics, Andhra Loyola College(Autonomous), Vijayawada, Andhra Pradesh, India, in Collaboration with Department of Mathematics, Aligarh Muslim university, Aligarh, held on 14th and 15th of July 2017, and presented a paper entitled **on Normal Fuzzy TT-Ideals in Ternary Γ -Semirings**.

International (03)

1. Participated in 20th International Conference of International Academy of physical Sciences on **Recent Advances in Physical Sciences and Future Challenges**, organized by Faculty of Science (Department of Mathematics, Physics and Chemistry), Osmania University, Hyderabad-500007, Telangana, India, on July 14-16, 2017 and delivered an Oral presentation and young Scientist Paper Presentation. Title of the Paper: **A Study on Fuzzy TT-Ideals in Ternary Γ -Semiring**.
2. Participated in the first International Conference on **Recent Innovations in Computer and Mathematics** held during November 16th and 17th, 2017 at J. M. J College for Women, Tenali, Andhra Pradesh, India, in collaboration with Spectrum Solution, Pondicherry, India and presented a paper titled **Generalised semi TT-Ideals in Ternary Γ -Semirings**.
3. Participated in the first International Conference on **Recent Innovations in Computer and Mathematics** held during November 16th and 17th, 2017 at J. M. J College for Women, Tenali, Andhra Pradesh, India, in collaboration with Spectrum Solution, Pondicherry, India and presented a paper titled **Ideals in Quotient Ternary Semirings**.

In the year 2018: (06)

1. Participated and Presented a paper in the “**National Conference on Mathematical Techniques and Applications(NCMTA 2018)**” Conducted at SRM Institute of

Science and technology, Kattankulathur during 5th and 6th January 2018. Title of the Paper: **On Γ -TS-acts over Ternary Γ -Semigroups.**

2. Participated and Presented a paper in the “**National Conference on Mathematical Techniques and Applications(NCMTA 2018)**” Conducted at SRM Institute of Science and technology, Kattankulathur during 5th and 6th January 2018. Title of the Paper: **On Fuzzy Regular Ternary Γ -Semigroups.**
3. Participated in National Seminar on Problems and Prospects of GST on 17th February 2018, organised by Departments of Commerce and Economics of VSR & NVR College, Tenali.
4. Participated and delivered an invited talk on the topic ternary Γ -Semirings in the National workshop on “**Recent Trends in Pure and Applied Mathematical Sciences**” organised by the Division of Mathematics, Department of Sciences & Humanities, VFSTR, Vadlamudi, Guntur during August 24-26, 2018.
5. Participated and Presented a paper in the “**National Conference on Recent**” Advances in Mathematics & XXVII Conference of APTSMS organized by Department of Mathematics (PG & UG) from 8th -10th December 2018.
6. Participated and Presented a paper in the “**National Seminar on Recent Trends in Students Anti Social Behaviour-Implications for the Future of Education**” organized by IQAC and Alumni Association of VSR & NVR College, Tenali. Title of the Paper: **Recent Trends in Students Anti-Social behaviour-Implications for the future of Education in India.**

International: (02)

1. Participated and Presented a papers in the “**international Conference on Applied Science and Technology (ICAST-2018)**” Conducted at Sagi Rama Krishnam Raju Engineering College (Autonomous) during 24th and 25th January 2018. Title of the Paper: 1) **A study on pseudo symmetric Γ -ideals in ternary Γ -semigroups**
2) **A Study on Fuzzy TF-ideals in ternary Γ -Semi rings**
3) **On Trio Ternary Γ -semigroups**
4) **Completely Prime and Prime fuzzy TF-ideals in ternary Γ -Semi rings**

2. Participated and Presented a papers in the “2nd international Conference on Emerging Trends in Engineering, Sciences & Management (ICESM’ 18)” Organised by RGM College of Engineering & Technology (Autonomous), Nandyal, Andhra Pradesh, India. 21-22 December 2018.

Title of the Paper: 1) On Le-Ternary Semi Group-I
2) On Le-Ternary Semi Group-II

In the Year 2020:

National: (20)

1. Participated in National webinar on “The New Face of Higher Education after COVID-19” organised by Acharya Nagarjuna University and Andhra Pradesh State Council of Higher Education, Nagarjuna Nagar, held on May 10, 2020.
2. Participated in one day National webinar on “DIGITAL PARENTING” organised by VSR & NVR College(Autonomous) and NVR College of Engineering & Technology, held on 1st June 2020.
3. Participated in 2 day National webinar on “THE ROLE OF PERSONNEL & TECHNOLOGY IN HIGH EDUCATION POST COVID-19” organised by department of Mathematics & Statistics, from 01-06-2020 to 02-06-2020 at Ch. S. D. ST. THERESA’s College for Women(A), Eluru.
4. Participated in webinar on “A Systematic Statistical approach for optimal solutions of industrial Problems” organised by department of Mathematics, K.L. University, Vaddeswaram, Guntur(DT), Andhra Pradesh, India. Held on 5th June 2020.
5. Participated in 4 day national webinar on “IMPACT OF COVID-19 ON EDUCATIONAL SECTOR IN INDIA AND STATAGIES TO FACE PANDEMIC” organised by IQAC, KBN College, Vijayawada, Andhra Pradesh, India, in cohabitation with Andhra Pradesh State Council of Higher Education held from 10th – 13th June 2020.
6. Participated in webinar on “How to create course and course activities in open source online learning” organised by department of Mathematics, Hindu College, Guntur, Andhra Pradesh, India. Held on 14-06-2020.
7. Participated in webinar on “Statistical Analysis as an interface in Engineering Problems” Organised by department of Mathematics, CBIT on 13th July 2020.

8. Participated in 12 days Faculty Development Programme in association with RUSA & IQAC on “online Teaching Learning & Research Methodology” organised by Govt., P.G. College, Bilaspur Rampur, Uttar Pradesh, India, from July 18th to July 29, 2020.
9. Participated in 5 days Faculty Development Programme on “LaTeX and its applications for Research”, organised by department of information science & Engineering, Vidyavardhaka, College of Engineering, Mysuru, Karnataka, India. Held from 20-07-2020 to 24-07-2020.
10. Participated in webinar on “ICT and Web 2.0 Tools as necessity 21st century Literacies for online learning and teaching Strategies during and after COVID-19, organised by department of Basic Science & Humanities, Vignan’s Institute of Management & Technology, Hyderabad, Telangana, India. Conducted on 23-07-2020.
11. Participated in 6 day Faculty Development Programme on Applications of Mathematics in Engineering, Conducted by department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, held from 20-07-2020 to 25-07-2020.
12. Participated in 3 days Faculty Development Programme on “Online Teaching & Learning Tools” organised by department of Master of Computer Applications, Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka, India, held from 22-24 July 2020.
13. Participated in 5 days Faculty Development Programme on Applications of Mathematics in Engineering, Conducted by department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, held from 27-07-2020 to 31-07-2020.
14. Participated in one day webinar in “LIBRARY BEYOND WALLS” Jointly organised by Libraries of Bharatiya Mahavidyalaya, Amaravathi & Bharatiya Mahavidyalaya, Morshi held on 20th August 2020.
15. Participated in 4 day Faculty Development Programme on Applications of Mathematics and Engineering(Seris-IV), Conducted by department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, held from 25-08-2020 to 28-08-2020.

16. Participated in virtual talk on “ Quantum Attacks on cryptographic protocols” by Dr. Malleswara Rao Valluri, Fiji National University, Fiji, organised by department of Mathematics, Koneru Lakshmaiah Educational Foundation held on 26th August 2020.

17. Participated 3 days faculty programme on “New Perspective in Mathematics and their Relevance to Science & Technology” held in department of Mathematics, JNTU College of Engineering, Anantapuramu, from 02-09-2020 to 04-09-2020.

18. Participated in one day webinar on “Impact of COVID-19 on Indian Economy” organised by department of Commerce & Economics, TJPS College, Guntur, India held on 4th September 2020.

19. Participated in 2 day Webinar on Applications of Mathematics in Engineering, Conducted by department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, held from 08-09-2020 to 09-09-2020.

20. Participated in National webinar on Mathematical Education in India: Retrospect and Prospect organised by Department of Education, Mizoram University(A Central University), Aizawl, held on 10th September, 2020.

International: (07)

1. Participated in two day International faculty development Programme Innovative Technics for effective teaching online & offline organised by Faculty of English(Department of M & H), Mahathma Gandhi Institute of Technology, Hyderabad, Telangana, India, held on 12, 13 June 2020.

2. Participated in two day International Webinar on “Health, Environment & Educational Aspects of Covid-19” organised by department of Botany & IQAC, A.C. College, Guntur, on 15th & 16th June 2020.

3. Participated in International webinar on CHANGE FOR GOOD : LIFE DURING AND AFTER LOCKDOWN (CFG) organised by IQAC, Digamber Jain College , Baraut (Bagpat) In association with NEEV- a Social Educational Initiative of IIT Alumni, held on 11th July 2020. Certificate Id:NEEV/CFG-1965.

4. Participated one week international online faculty programme on “Applications of Mathematics in Science & Technology” organised by department of Basic Science (Mathematics), Vishnu Institute of technology, Bhimavaram, Andhra Pradesh, India held from 7th to 11th July 2020.
5. Participated in International webinar on “ Mathematics is the Brain of Engineering & Technology” organised by department of Mathematics, (H & S) Vignan Bharathi Institute of Technology(Autonomous), Hyderabad, Telangana, India held on 26th July 2020.
6. Participated one week international faculty development programme on “Mathematical Phototypes and their Applications in Engineering and Science(MPAES-2020) organised by department of Engineering Mathematics & Humanities, Sagi Ramakrishna Raju Engineering College, Bhimavaram, W.G. District, A.P. India held during 27-07-2020 to 01-08-2020.
7. Participated and presented a paper entitled “Present days Telugu literature in the 2 day international webinar “TELUGU SAHITYSM-SAMAKALEENATA” organised by department of Telugu, VSR & NVR College, Tenali, Andhra Pradesh, India, held on 24th and 25th August 2020.

KEY RESPONSIBILITIES HANDLED

INNOVATIONS / CONTRIBUTIONS IN TEACHING:

1) **Design of Curriculum** : Prepared according to the Annual Academic Plan.

2) **Teaching Methods** :

Teacher and Student Interaction Method, Study Projects, Worksheets, to Understand the subject and for Enhancing Communicative skills of Students – Students’ seminars were Conducted etc.

3)**Laboratory Experiments** :

B.Sc., mathematicspracticals – Problem Solving Sessions.

4) **Evaluation Methods**: Individual Difficulties Attended To.

5) **Remedial Teaching/Students Counseling (Academic)** :

Dr. D. Madhusudhana Rao's Profile

Adopted Remedial Methods to Improve Student's Academic Standards.

6) **Any Other** :

Conducted Consulting Classes for Educationally Backward Students. Contributed in Add on programmers/ Certificate Courses on Quantitative and Numerical Ability as a Value Addition Programmers.

ADMINISTRATIVE EXPERIENCE:

- 1) **Coordinator of Certificate Course Committee** in V.S.R & N.V.R College (Autonomous), Tenali, A.P. India, in the year 2007 – 08.
- 2) **Head, Department of Mathematics**, V.S.R & N.V.R College, Tenali (Autonomous), A.P. India, from 12-12-2012 to January 2016.
- 3) **Chairman, Board of Studies, Department of Mathematics**, V. S. R & N. V. R. College, Tenali (Autonomous), A.P. India, from 12-12-2012 to January 2016.
- 4) Working as a **“STAFF – GUARDIAN”** For Students.
- 5) Acting as **auditor for Interdepartmental audit** in V. S. R & N. V. R College, Tenali(Autonomous), A.P. India.
- 6) **Convener of Carrier Development Cell**, V.S.R & N.V.R College, Tenali (Autonomous), A.P. India, in the year 2013-14 and 2014-15.
- 7) **Member of Carrier Development Cell**, V.S.R & N.V.R College, Tenali (Autonomous), A.P. India, in the year 2015-16.
- 8) **Member of Research and extension activities of NAAC Criteria committee up to June 2016 .**
- 9) **Member of Research promotion committee** in V. S. R & N. V. R. College, Tenali (Autonomous), A. P. India, in the year 2015-16.
- 10) **Convener of Staff Guardian committee**, V.S.R &



Dr. D. Madhusudhana Rao's Profile

N.V.R College, Tenali (Autonomous), A.P. India, from the year 2013-14 to 2014-15.

- 11) *Convener of Research and extension activities of NAAC Criteria-III committee from June 2016 to September 2021 .*
- 12) **Member of Library committee VSR & NVR College, Tenali in the year 2017-18.**
- 13) **Convener of Time Table Committee in V.S.R & N. V. R. College, Tenali, from 2017-18 to 2021.**
- 14) **Member of Class room Vigilance Committee in V.S.R & N. V. R. College, Tenali, from 2017-18 to 2021.**
- 15) **Convener of Career Guidance in V.S.R & N. V. R. College, Tenali, from 2017-18 to 2021.**
- 16) **Member of Research Promotion committee in V.S.R & N. V. R. College, Tenali, from 2017-18 to 2021.**
- 17) **Member of Anti-Ragging committee in V.S.R & N. V. R. College, Tenali, from 2017-18 to 2021.**
- 18) **Training and Placement Officer for Andhra Pradesh State Skill Development Corporation(APSSDC) to the year 2017-18.**

MEMBERSHIP OF PROFESSIONAL BODIES, SOCIETIES Etc:

- 1) A Member of “*HARITA*” (Heath Awareness Research Institution Technology Association).
- 2) *A State Executive Member of ACTA – A.P.* during 2009-2011.
- 3) A *Member in ACTA-AP* since 1997 on words.
- 4) A Life Member of *Andhra Pradesh Society for Mathematical Sciences* from 2014 onwards.
- 5) Peer review member to the “*British Journal of Mathematics & Computer Science*”.
- 6) Member of *Asian Council of Science Editors, Membership No: 91.7347.*

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- 7) Peer review member of “*International Journal of Mathematics and Computer Applications Research*(sl No: 970)”.
- 8) Editorial Board Member of “*International Journal of New Technology and Research*”
- 9) Life Member of “*Council for Innovative Research for Journal of Advances in Mathematics*”.
- 10) Review Member of “*Journal of Advances in Mathematics*”
- 11) Review Member of “*International Journal of Computational Sciences and Information Technology* (IMPACT: IJCSIT)”

Any Other Information:

Dr. D. Madhusudhana Rao acted as Judge for District Level Science, Mathematics and Environment Exhibition for Children-2016-17(Guntur District), at NCRNM High School, Morrispet, Tenali on 6th December 2016.



Awards Received:

- 1). Received **Andhra Pradesh State Best Teacher Award** from Chief Minister of Andhra Pradesh on 5-9-2018.
- 2). Received **Adharsya Vidya Saraswati Rastriya Puraskar-National Excellence Award**, from Global Management Council, Ahmadabad, India.
- 3). Global Teacher Role Model-An International Award from MVL Trust, Mumbai, Maharashtra, India.



STATISTICS :

See the following link

URL : https://www.researchgate.net/profile/Dasari_Rao2

People who read Research work

Dr. D. Madhusudhana Rao's Profile

On Research Gage : 4275 (up to September 5th 2018)
RG Score : 12.76
h-index : 6
Citations :240.

Photos:



Receiving AP State Best Teacher Award from AP CM.



Participated in Swacha Bharat Programmed in 2015



Participated in Swacha Bharat Programmed in 2015



Campus Clean and Green programmed in 2014

As Judge in District Level Science Exhibition

Dr. D. Madhusudhana Rao's Profile



Dr. Madhusudhana Rao with Board of Studies Members in February 2017.



Felicitaton on Teachers Day on 5th September 2016 by Sri Chitanya Educational Institutions Vijayawada.



As Observer in Navanirman Diksha Conducted by Govt. of Andhra Pradesh in June 2018

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