

## Dr. Anil Kumar D.V.S.R.

M.Sc. (Mathematics), M. Phil, Ph.D. (Mathematics)

[dvsranilkumar@gmail.com](mailto:dvsranilkumar@gmail.com)

+91 9440365690

Hyderabad, India

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### Objective

To work in an organisation which moulds my career and also enables me to mould the career of students.

### Profile

- Ph.D. in Algebra (Lattice Theory) under the guidance of Prof. J. Venkateshwara Rao in Nagarjuna University.
- Title of Ph.D. – Fundamental Study of Definite Concepts on Lattice Boolean-Valued Measures.
- Over 17 years of teaching experience in the subject of Mathematics.
- Have extensive teaching experience in the following areas: Algebra, Real analysis, Complex analysis, Topology, Function analysis, Measure theory, Number theory, Laplace transformations etc...
- In addition to teaching in various colleges for Graduate and Post-Graduate students, have also conducted private tuitions.

### Accomplishments

- Worked as a BOS Chairman to frame syllabus for R-17, R-18, R-20 regulations
- Working as subject expert as well as Reviewer item creator for TCSION from 2020 onwards.
- Working as subject expert item creator for AICTE from 2020 onwards.

### Experience

- 9+ years (Oct 2013 onwards) **working as a Professor & Head, Department of Mathematics in T. K. R. College of Engineering and Technology.**
- 2+ years (8<sup>th</sup> Dec '11 to 4<sup>th</sup> Oct '13) Associate Professor at Nizam Institute of Engineering and Technology.
- $1\frac{1}{2}$  + years (31<sup>st</sup> Aug '10 to 7<sup>th</sup> Dec '11) Assistant Professor at T.K.R Engineering College, Meer pet, Hyderabad.
- 3+ years (18<sup>th</sup> June '07 to 16<sup>th</sup> Feb '10) as Lecturer from at Gowtham Degree College, Vijayawada.
- 3+ years (11<sup>th</sup> June '04 to 6<sup>th</sup> March '07) as a Lecturer from at Sarada College, Vijayawada.

### Research Guidance

S.NO.	NUMBER ENROLLED	UNIVERSITY	THESIS SUBMITTED	DEGREE AWARDED
1	1003PH1422	JNTU HYDERABAD	24 <sup>th</sup> AUGUST 2018	31-08-2019
2	13022PMT21	JNTU KAKINADA	-----	-----

## Publications in Journals

- Characterization of Class of Super Lattice Measurable Sets, Journal of Applied Sciences. Scopus,11(20): 3525-3529, 2011, (ISSN 1812- 5654 / DOI: 10.3923/jas.2011. 3525.3529). UGC CARE: 3900148513(S.no-19281)-UGC GROUP – A Journal list
- Construction of Gamma-Lattice, International Journal of Applied Mathematics (ISSN: 0975 – 7937), Vol: 02, Issue: 02, Oct.'11 – Mar.'12, pp 314 - 323.
- Lattice Boolean-Valued Measurable Functions, International Journal of Applied Mathematics & Statistics, (ISSN 0973-1377- Print; 0973-7545-Online) Vol. 23; D11, (2011). UGC-listed journal no-2570.Scopus. UGC CARE: 19200156937(S.no-16325)-UGC GROUP – A Journal list
- Radon - Nikodym Theorem and its uniqueness of Signed Lattice Measure, International Journal of Mathematics & Computation, (ISSN 0974-5718), Volume 12, Number S11, (Pp.19-27), 2011.
- Jordan Decomposition and its Uniqueness of Signed Lattice Measure, International Journal of Contemporary Mathematical Sciences (ISSN 1312-7586), 6(4):191- 198, 2011.
- Characterization of Class of Measurable Borel Lattices, International Journal of Contemporary Mathematical Sciences (ISSN 1312-7586), 6(9): 439-446, 2011.
- Characterization of Lattice Sigma Algebras, International Journal of Mathematical Archive, 3(6), 2012, 2347-2353, (ISSN, 2229- 5046) (www.ijma.info). UGC-listed journal no-47756. UGC CARE: 47756(S.no-1893)
- Characterization of Lattice Sigma Algebras on Product Lattices, International Journal of Mathematics and Engineering Science (ISSN: 2277-6982), 1(4) (May 2012), (<https://www.ijmes.com>/<https://sites.google.com/site/ijmesjournal/>).
- Characterization of a class of Atoms in Lattice Sigma Algebras, International Journal of Mathematical Archive, 3(4), 2012, 1448-1454, (ISSN, 2229-5046) (www.ijma.info). UGC-listed journal no-47756. UGC CARE : 47756(S.no-1893)
- Lebesgue Decomposition and its Uniqueness of a Signed Lattice Measure, Asian Journal of Algebra, 5(1): 1-10, 2012, (ISSN 1994-540X / DOI: 10.3923/aja.2012.1.10).
- Characterization of Boolean Valued Star and Mega Lattice Functions, Asian Journal of Algebra, 5(1): 1-10, 2012, (ISSN 1994-540X / DOI: 10.3923/aja.2012.1.10).
- Characterization of Complex Integrable Lattice Functions and Mu-free lattices, Asian Journal of Mathematics and Statistics, 5(1): 1-20, 2012, (ISSN 1994-5418 / DOI: 10.3923/ajms.2012.1.20). UGC-listed journal no-43261. UGC NEW LIST: S.no(2316)
- Characterization of Class of Positive Lattice Measurable sets and Positive Lattice Measurable Functions, Asian Journal of Applied Sciences, 5(1): 43-51, 2012, (ISSN 1996-3343 / DOI: 10.3923/ajaps.2012.43.51). Scopus. UGC CARE: 21100201062(S.no-3718)-UGC GROUP – A Journal list

- Characterization of Lattice Measurable functions on Product Lattices, Asian Journal of Algebra, 5(3): 50-65, 2012, (ISSN 1994-540X / DOI: 10.3923/aja.2012.50.65).
- Construction of chromatic polynomials on total graphs, International Journal of Mathematics and Computer Applications Research (IJMCAR) ISSN 2249-6955, Vol.2, Issue 3, Sept2012,92-105.Scopus. UGC LIST Computer Sciences: 45117 S.no (408)
- Characterization of Lie Lattice Sigma Algebras in Formal and Conformal Systems. Asian Journal of Algebra, 5(3): 66-72, 2012, (ISSN 1994-540X / DOI: 10.3923/aja.2012.66.72).
- Characterization of partial lattices on countable Boolean lattice ISSN: 2249-4626 Vol (13) issue 6, Version (1.0), 2013.Global Journal of Science Frontier Research [GJSFR], UGC-listed journal no-62502.
- Classification of Algebraic Properties of Chromatic Polynomials, JOURNAL OF SCIENTIFIC RESEARCH, JSR.Vol (5), Issue (3), page no. 469-477 (2013), (ISSN, 2070-0237 print, 2070-0245 online) UGC-listed journal no- 46443. UGC NEW LIST: S.no(15460)
- Fundamental Study of Definite Concepts on Lattice Boolean-Valued measures, ISSN: 2320-8007, Vol (1) Issue7, PP-1190-1194, Oct2013. International Journal of Technology and Engineering Science [IJTES].
- The Nature of Points in Countable Boolean Lattice Measures ISSN: 2249 – 4626 Vol (14) issue 1, Version (1.0), 2014.GlobalJournal of Science Frontier Research [GJSFR], UGC-listed journal no-62502.
- Characterization of Class of Lattice Boolean-Valued Measurable Functions, ISSN: 2320-8007, Vol (2), Issue2, PP - 1518-1521, Feb2014. International Journal of Technology and Engineering Science [IJTES].
- Classification of Certain Classes of Lattice Sigma Algebras, ISSN: 2320-8007, Vol (2), Issue5, pp-1750-1752, Feb2014. International Journal of Technology and Engineering Science [IJTES].
- On various decompositions of a signed lattice measure, ISSN: 2278-8697, Vol (3), Issue 2, PP-604-606, Aug2014.Mathematical sciences international research journal [IMRF Journal] UGC-listed journal no- 43832. UGC CARE : 43832(S.no-191)
- Existence of a lattice non measurable, ISSN: 2278-8697, Vol (3), Issue 2, PP-636-638, Aug 2014.Mathematical sciences international research journal [IMRF Journal] UGC-listed journal no- 43832. UGC CARE : 43832(S.no-191)
- Elementary Characteristics of P-Lattice Measurable SetsAnalog to Boolean Structures, ISSN 2347-307X (Print) & ISSN 2347-3142 (Online), Volume 2, Issue 7, July 2014, PP 642-645, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), UGC-listed journal no-62822. UGC CARE : 62822(S.no-3031)
- Soft Sets and Sigma Algebras, International Journal of Mathematics Trends and Technology (IJMTT) – Volume 55 Number 1- March 2018, ISSN: 2231-5373, page No.10-13. UGC CARE : 48198(S.no-2696)

- A soft set theory approach for mining category wise sequential patterns, IJRAR- International Journal of Research and Analytical Reviews Volume 5 | Issue 4 | Oct.– Dec. 2018, E ISSN 2348 - 1269, Print ISSN 2349-5138 UGC NEW LIST:43602 S.no (11388)
- Characterization of Outer Measure of Partial Lattices in a Countable Boolean Lattice, ARPN Journal of Engineering and Applied Sciences, VOL. 14, NO. 4, FEBRUARY 2019, ISSN 1819-6608, page no: 898-901. UGC CARE: 21100200825(S.no-3488)-UGC GROUP – A Journal list
- The Characteristics of Partial Lattices and Irreducibility of Measurable Functions on Partial Lattice, INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 8, ISSUE 09, SEPTEMBER 2019 ISSN 2277-8616, page no: 639-641- UGC CARE: 21100894501(S.no-17530)-UGC GROUP – A Journal list
- Caratheodory Extension Theorem and measures on semi-algebras of partial lattices, Journal Of Education: Rabindranath Bharati University, ISSN: 0972-7175, Vol: 23, Issue No. : 10, 2021, pp 8-14

#### **Presentation in National Conferences**

- Presented a Paper Characterization of Partial lattices on lattice sigma algebras in the National Conference on Applications of Mathematics in Engineering, Physical and life sciences and XXI Congress of APSMS.
- Presented a paper titled “ON VARIOUS CHARACTERIZATIONS OF CLASS OF ATOMS IN COUNTABLE BOOLEAN LATTICE MEASURES” in the CSIR Sponsored Two Day National Conference on Recent Trends in Mathematical Computing 2013, VIT University, Chennai Campus.

#### **Presentation in International Conferences**

- Presented a paper Characterization of Partial Lattices on Countable Boolean Lattice in the 2ed World conference on Applied Sciences, Engineering & Technology, 2013.
- On various decompositions of a signed lattice measure, International Conference on Mathematical Sciences [ICMS – 2014]
- Existence of a lattice nonmeasurable, International Conference on Mathematical Sciences [ICMS – 2014]
- Characteristics of Isotone Lattice Measurable Functions, International Conference on Systems, Science, Control, Communication, Engineering and Technology 2017 (ICSSCET-2017)

#### **Participations in National and International conferences/workshops**

- Participated in two-day national seminar on Algebra and its applications organized by Department of Mathematics, Acharya Nagarjuna University.

- Participated in International Workshop on Mathematical Beauty of Nature and Music Organized by C. R. Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad.
- Participated in national workshop on Mathematical Logic and applications organized by Department of Mathematics, VR Siddhartha Engineering College, Vijayawada.
- Participated in two-day national workshop on Application of Mathematics to Engineering organized by Department of Mathematics, BIET.
- Participated in Faculty Development Program on Engineering Mathematics at SNIST, jointly organized by JNTUH & SNIST.

### Education

Level	Name of the Institution	Board/Council University	Year of passing	Percentage
Class X	SRINIVASA BALA VIDYALAYAM	S. S. C. BOARD A.P.	1990	65.5
Intermediate	SATHAVAHANA COLLEGE VIJAYAWADA	B.I.E., A.P.	1992	60.5
B. Sc (M.P.C)	SATHAVAHANA DEGREE COLLEGE VIJAYAWADA	NAGARJUNA UNIVERSITY	1995	68.00
M. Sc (Math)	OSMANIA UNIVERSITY	OSMANIA UNIVERSITY	2004	65.00
M. Phil (Math)	MADURAI KAMARAJ UNIVERSITY	MADURAI KAMARAJ UNIVERSITY	2007	55.00
Ph. D (Math)	NAGARJUNA UNIVERSITY	NAGARJUNA UNIVERSITY	Submitted Date – 17-Sep-2011 Awarded Date – 20-July-2012	

### Personal Details

- Date of Birth: 16 – 07 – 1974
- Marital Status: Married.

### Memberships

- Elected as a life member by the council of the Andhra Pradesh Society for Mathematical Sciences.
- A senior member of the International Association of Computer Science and Information Technology.

### Sports

- Participated in 10k run conducted by TKR Sports Foundation, Hyderabad.

### References

Following are the professional reference who can be contacted. Contact details will be provided on request.

- Dr. P.V. Sundaranand – Professor and Head Department of mathematics, Rayalaseema University, Kurnool. [anandputcha@gmail.com](mailto:anandputcha@gmail.com), Ph: 9848226855.
  - Dr. D.V. Ravi Shankar- Principal TKR College of Engineering and Technology, [shankardasari64@gmail.com](mailto:shankardasari64@gmail.com), Ph: 9666573666
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I hereby declare that all the details mentioned above are true to the best of my knowledge.

(Dr. D. V. S. R. Anil Kumar)