

FORMAT FOR DETAILS OF INDIVIDUAL TEACHERS ACHARYA NAGARJUNA UNIVERSITY

1. Name : Prof. R.V.S.S.N. Ravikumar
2. Designation : Professor
3. Department : Physics
5. Qualifications : M.Sc., M.Phil., Ph.D., P.G.D.C.A.,
6. Date of Birth : 14-05-1968
7. Date of Joining : 17-10-2006
8. Phones: (off) : 0863-2346384 (Res): +91-863-2263458 Cell: 9490114276
9. Email ID : rvssn@yahoo.co.in, ravirvssn@gmail.com,
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10. Academic Qualifications: M.Sc., M.Phil., Ph.D., P.G.D.C.A.,

11. Title of Ph.D. Thesis :

Title of Thesis	University from which PhDs awarded	Awarded Year
Electronic Spectra of Transition Metal Ions in Solids: Struvite Analogues	S.V. University, Tirupati, India	1997

12. Professional Career:

- Teaching Experience: 22
- Administrative Experience: 10
- Research Experience: 39

13. Academic Activities :

- **Prof. R.V.S.S.N. Ravikumar** is working as Professor, Department of Physics, Acharya Nagarjuna University since 2017.
- Assistant Co-ordinator, **ANU-TOCIC outreach Centre, DISR, New Delhi** unit from Sept 2007 -2021. This Centre so far sanctioned **20** innovative projects worth of **300 Lakhs**.
- He worked as **Director**, Centralized Laboratory (2013 -2021), **Director**, IQAC (2019- 2021), **Assistant Co-ordinator**, IQAC (2014- 2018).
- He worked as **Post Doctoral Fellow** of **Yamaguchi University (2001-2003)**, **Kyoto University, Kyoto (2003-2005) Japan**.
- He received **Young Scientist's awards** from **Hong Kong (1997)**, **Japan (2001)** and **Russia (2006)**.
- His research interests are Solid State Spectroscopy, Nano-materials, Nanophosphors, Bio-materials, Glass Science and Spintronic Devices.
- He published **Six books (three Research text books and Editor** for AP Intermediate vocational bridge course **Physical Sciences two** text books (First year & Second Year) & one **NAAC Manual**).

14. Research Students Information (Awarded):

Guided Successfully		Presently Guided	
Ph.D.,	M.Phil./ M.Sc., Projects	Ph.D.,	M.Phil./ M.Sc., Projects
26	7/42	8	0/8

15. Professional Achievements:

- He is a Reviewer of nearly 25 ELSEVIER journals.
- He is a board of studies member of Acharya Nagarjuna University and various colleges (2007 - Present)
- He has 28 years of research & teaching experience and he successfully completed two major UGC projects, New Delhi worth of **15 lakhs**. He is also Coordinator UGC-DRS, DST-FIST and UGC DSA1 total worth of **235 lakhs**.
- **Present project ongoing “Development of Innovative Eco-sustainable Intelligent Bio-nanocomposite Food Packaging Products”- 143.6 Lakhs** of MHRD project sanctioned with Design Innovation Centre (DIC) of JNTU Kakinada. The primary objective of the project is to design and develop innovative products to meet the societal needs.
- Three students from his lab are working as Post Doctoral Fellows in South Korea.
- **Dr. Ravikumar** has credited more than **245** publications in reputed Journals.
- He presented about **380 papers** in National and International Conferences.
- His papers are cited more than **3760 times and h index 34**.
- Under his guidance **26 Ph.D's** and **7 M.Phils.** were awarded.

16. No. of books published : 6 (Six)

1. Title : Growth of ZnSe Nanoparticles by CVD: Preparation of ZnSe Nanoparticles
Authors : G. Nirmala, M.C. Rao, **R.V.S.S.N. Ravikumar**.
Publisher : Lap Lambert Academic Publishing GmbH KG, 2013
ISBN : 3659379662, 9783659379666 & Length : 76 pages
2. Title : Transition metal ions doped ZnO nanopowders
Authors : B.Babu, **R.V.S.S.N.Ravikumar**
Publisher : Lap Lambert Academic Publishing GmbH KG, 2015
ISBN : 978-3-659-25530-4 & Length : 137 pages
3. Title : Luminescent properties of d5 ions doped CLHA nanophosphors
Authors : K. Ravindranadh, **R.V.S.S.N. Ravikumar**, M.C. Rao
Publisher : Lap Lambert Academic Publishing GmbH KG, 2016
ISBN : 978-3-659-87834-3 & Length : 109 pages
4. Title : PHYSICAL SCIENCES, First Year, Intermediate Vocational Course
Authors : K.S. Srinivasa Rao (Physics), Dr. M. Srinivasa Reddy (Chemistry),
Dr. R.V.S.S.N. Ravikumar (Editor)
Publisher : STATE INSTITUTE OF VOCATIONAL EDUCATION, A.P., BOARD OF INTERMEDIATE EDUCATION, A.P., 2018.& Length : 540 pages
5. Title : PHYSICAL SCIENCES, Second Year, Intermediate Vocational Course
Authors : K.S. Srinivasa Rao (Physics), Dr. M. Srinivasa Reddy (Chemistry),
Dr. R.V.S.S.N. Ravikumar (Editor)
Publisher : STATE INSTITUTE OF VOCATIONAL EDUCATION, A.P., BOARD OF INTERMEDIATE EDUCATION, A.P., 2018. & Length : 785 pages
6. Title : APSCHE Manual for Quality Enhancement and NAAC Accreditation **Research, Innovation and Extension** (3rd Criterion) Prepared Prof. T.Gowri Manohar,
Prof.R.V.S.S.N.Ravikumar, Dr.G.Srinivasa Rao, Dr.Ch.Ramesh, Edited by Prof. K.Rama Mohan Rao, Sri Srirangam Mathew, Dr.C.V.S.Bhasskar,
Publisher : Andhra Pradesh State Council of Higher Education, A.P. 2021 & Length 34 pages

17. No. of research articles published/presented since the inception:

Journals			Conferences		
National	International	Total	National	International	Total
36	202	238	310	70	380

Citations of Publications:3740, http://scholar.google.co.in/citations?user=lo_hVgoAAAAJ&hl=en

Cited Research works: <http://minerals.gps.caltech.edu/WHOSWHO/Index> as world top Mineral Spectroscopists by Mineralogical Society of America.

Average Impact factor: 2.7, H index: 34, I 10 index: 112

<https://orcid.org/0000-0002-0627-7671>; <https://www.webofscience.com/wos/author/record/G-4638-2015>; Scopus Id: 7005050117: 57216802022; H index :32 (as on 27.3.2022)

18. Details Major/Minor Research Projects held/holding:

Title and Sanction Order Particulars	Date of Project Sanctioned	Major/Minor and Funding Agency	Amount in Lakhs
Spectroscopic investigations on mixed alkali effect in alkali zinc borate glasses (2010-2013) as Principal Investigator F.No.37-2/2009(SR)	12-Jan-10	Major-UGC, New Delhi	10,35,871/-
Influence of transition metal ions on bio-mimetic materials Amino acid crystals (2010-2013) as Co-Principal investigator, F.No. 37-7/2009(SR)	12-Jan-10	Major-UGC, New Delhi	2,43,000/-
UGC-DRS Phase-III (2009-2014) as Assistant Coordinator, F.530/(1)DRS/2009 (SAP-I)	31-Mar-09	UGC-DRS-SAP, New Delhi	40,00,000/-
UGC-DSA-I project (2015-2020) as Dy-Coordinator/ Coordinator, F.530/11/DSA-I/2015 (SAP-I)	25 March 2015	UGC-DSA1 New Delhi	1,18,50,000/-
Development of Innovative Eco-sustainable Intelligent Bio - nanocomposite Food Packaging Products (2016- 2026)(DIC-JNTUK)	23-Feb-16	MHRD, New Delhi	1,23,92,000/-

19. Research Collaboration with the faculty of foreign Universities:

1. Prof. Jun Yamauchi, Department of Chemistry, Kyoto University, Japan.
2. Prof. R. Komatsu, Prof. K. Ikeda, Department of Advanced Materials Sciences and Engineering, Yamaguchi University, Tokiwadai, Ube 755-8611, Japan.
3. Prof. Jaesool Shim, School of Mechanical Engineering, Yeungnam University, Gyeongsan 712-749, Republic of Korea.
4. Prof. Jinsub Park, Department of Electronics and Computer Engineering, Hanyang University, Seoul 133, Republic of Korea.
5. Prof. Sangjun Moon, Department of Robotics Engineering, Daegu Gyungbuk Institute of Science and Technology (DGIST), Republic of Korea.
6. Prof. Vijay Singh, Chung-Ang University, Seoul, Republic of Korea.
7. Prof. Grigory V. Zyryanov, Department of Organic and Biomolecular Chemistry Ural Federal University, Russia.

20. Visiting/ Adjunct/ Guest Faculty of other Universities:

1. Round trip air ticket and other expenses from CSIR, India as Young Scientist Grant, **Hong Kong**, 1997.
2. Round trip air ticket and other expenses from CSIR, India as Young Scientist Grant, **Japan**, 2001.
3. Round trip air ticket and other expenses from CSIR, India as Young Scientist Grant, **Russia**, 2006.
4. Round trip air ticket and other expenses from Ural Federal University, Russia as Keynote Speaker Grant, **Russia**, 2018.

20. Patents: Nil

21. Professional Memberships:

1. Member - Physical Society, Dept. of Physics, Sri Venkateswara University, (1990-2001)
2. Member - Indian Physics Association (1995 - Present)
3. **Founding Member - Asia Pacific EPR/ESR Society (1997 - Present)**
4. Member - International EPR (ESR) Society (1999- Present)
5. Member- Board of Studies Physics, Acharya Nagarjuna University (2007 – Present)
6. **Associate Fellow, AP Akademi of Sciences, Hyderabad (2008)**
7. **Executive member Nagarjuna University Teacher's Association (2008- 2014)**
8. **Executive member Andhra Pradesh University Teacher's Association (2009- till to date)**
9. **Committee member** of Scientific programme APSC (2012)
10. **Treasurer, Nagarjuna University Teacher's Association (2015- 2017)**
11. Member - Board of Studies in **Bachelor of Audiology and Speech-Language Pathology**, Acharya Nagarjuna University (**2015 – Present**)
12. **Expert member:** A.P. State UG **Physics CBSE Regulations** 2015-2016
13. **Expert member:** Board of Studies Physics: **JNTUK, Kakinada, 2016 onwards**
14. **Editor, A.P. State Inter Vocational Course First year Physical sciences text book (2018)**
15. **Editor, A.P. State Inter Vocational Course Second year Physical sciences text book (2018)**
16. **Expert Member**-University Representative to the BOS in Physics of AG & SGS Degree College of Arts & Science, Vuyyuru 2018 -2020.
17. **Expert Member**- University Representative to **Academic Council** (Autonomus) Bapatla Engineering College, Bapatla 2018-2020.
18. **Expert Member** –Board of Studies Physics: MIC College of Technology, Kanchikacherla, 2018-onwards
19. **Member, PG Board of Studies in Physics**, Acharya Nagarjuna University (2006 – Present)
20. Expert Member- Board Studies Physics, Electronics, Andhra Loyola College (autonomus) Vijayawada 2021-2023.
21. Subject Expert **CAS interviews, Kakatiya University**, Warangal (2022)
22. **Adjudicator Ph.D., thesis:** Andhra University, S.V. University, Rayalaseema University, Sri Krishnadevaraya University, JNTU-K, JNTU-Vijayanagaram, Yogi Veemana University, Bharathidasan University, Kerala University, Osmania University, K.L. University etc.,

22. Academic Council/ BOS/Other Committee Members:

1. **BOS** : Chairperson, Board of Studies, in Physics (PG)
(i) Acharya Nagarjuna University, Sept.2018 -Sept. 2020.
(ii) Krishna University, March 2021- March 2023.
2. **Head** : Department of Physics, Acharya Nagarjuna University, 5 January 2017 – 4 January 2019.
3. **Director** : Central Laboratory, Acharya Nagarjuna University, Nagarjuna Nagar, May 2013 –Oct 2021.
4. **Assistant Director** : *Internal Quality Assurance Cell*, Acharya Nagarjuna University, Nagarjuna Nagar, Sept. 2018 -Sept.2019.
5. **Assistant Director** : *Internal Quality Assurance Cell*, Acharya Nagarjuna University, Nagarjuna Nagar, Sept. 2014 -Sept.2018.
6. **Assistant Coordinator:** TePP Outreach cum Cluster Innovation Center (TOCIC), Acharya Nagarjuna University, Nagarjuna Nagar (DSIR, New Delhi) July 2007 – March 2018.

7. **Assistant Director** : Central Laboratory, Acharya Nagarjuna University, Nagarjuna Nagar, Dec. 2006 – August 2008.
8. **Assistant Chief Superintendent of PG Examinations** : Acharya Nagarjuna University, April 2008 -April 2010.
9. **Dy Coordinator** : UGC-DRS III, Department of Physics, Acharya Nagarjuna University, March 2010-2015.
10. **Dy Coordinator** : UGC-DSA1, Department of Physics, Acharya Nagarjuna University, March 2016 – May 2017.
11. **Coordinator** : UGC-DSA1, Department of Physics, Acharya Nagarjuna University, June 17 to March 2022.
12. **ACTA** : ANU CDE Exams Dec. 2017- Dec.2018
13. **CTA** : ANU Engineering Exams, 2018-2022.
14. **Director** : CIQA, CDE Acharya Nagarjuna University 2018 -2019.
15. **Editor** : (i) Journal of Polymer & Composites March 2023 onwards
(ii) ANU journal of Physical Sciences 2018 onwards

23. Awards

1. **State Best Scientist award in Physical Sciences (2020) Government of Andhra Pradesh**
2. **State Best Teacher award in Physical Sciences (2016) Government of Andhra Pradesh**
3. **Best Researcher Award in Sciences (2016) Acharya Nagarjuna University**
4. **Three Young scientist's award at Hong Kong (1997), Japan (2001) and Russia (2006).**
5. Associate Fellow, AP Akademi of Sciences, Hyderabad (2008)
5. **Best Poster award at Russia (2006)**
6. **Best paper award at Eluru, India (2013), Kavali, India (2014)**
7. **Prof. K.V. Rao Best paper award (2014) with Cash Prize Rs.20,000/-**
8. **Best paper award in 6th Youth Science Congress, Guntur, India (2015) with Cash Prize.Rs.6000/-**
9. **Pool Scientist:** Department of Chemistry, Pondicherry University, Pondicherry, India (With Prof. P. Sambasiva Rao) from 1st June 2005 to 16th October 2006.
10. **Post Doctoral Fellow,21st COE-PDF,** Department of Chemistry, Kyoto University, Kyoto, **Japan** (with Prof. Jun Yamauchi) from 3rd December 2003 to 31st March 2005.
11. **Post Doctoral Fellow,PDF-VBL,** Department of Advanced Materials Sciences and Engineering, Yamaguchi University, Ube, **Japan** (With Prof. Ryuichi Komatsu) from 1st November 2001 –31st October 2003.
12. **Post Doctoral Researcher: Research Associate-CSIR,** Department of Physics, Sri Venkateswara University, Tirupati, India (Advisor: Prof. Y.P. Reddy) from 1st October 1997 – 31st October 2001.
13. **Senior Research Fellow-CSIR,** Department of Physics, Sri Venkateswara University, Tirupati, India (Supervisor: Prof. B.J. Reddy) 1st July 1995 –30th September 1997.
14. **Project Fellow:** UGC Project entitled "Optical and Magnetic properties of Transition Metal bearing Crystals" with Prof. B.J. Reddy, Dept. of Physics, Sri Venkateswara University, Tirupati, India from 1st April 1994 – 15th July 1995.

Signature of the Teacher