

Dr. V NAVEEN KUMAR

Department: Basic Sciences and Humanities
College: Seshadri Rao Gudlavalleru Engineering College



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RESIDENTIAL ADDRESS:

Dr. V.NAVEEN KUMAR,
S/o. V.V.Raghavachari,
D.No:-4-203,
Lakshminagar Coloney,
Gudivada - 521301

Age : 43years

Date of birth : (08-03-1980)

Educations qualification : M.Sc Physics

Degree	Subject	Academic year	University	Percentage
P.hD	Physics	2019	AU	Awarded
M.Sc.	Physics	2000-2002	Nagarjuna University	68%
B.Sc	M.P.C.	1997-2000	Nagarjuna University	63%
Intermediate	M.P.C.	1995-1997	Board of Intermediate	67.5%
S.S.C.		1994-1995	Board of secondary Edu.	73%

Experience : As Physics lecturer

Academic Year	Institution
30-06- 2006 to Till date	Gudlavalleru Engineering College, Gudlavalleru
2005-2006	S.C.S Degree Kalasala, Gudlavalleru
2004-2005	S.C.S Degree Kalasala, Gudlavalleru
2002-2004	Vidyalaya Degree College, Gudivada

Languages Known : Can read,write,speak fluently Telugu, Hindi, English

Marital status : Married

ACADEMIC QUALIFICATIONS:

Dr. V.Naveen Kumar, Sr. Gr. Assistant Professor of physics BS&H department, was awarded Ph.D for his thesis entitled “Studies of global trends of atmospheric boundary layer heights (ABLHs) and temperature structures using COSMIC radio occultation technique and anomalous wind circulation over Taipei (Taiwan) as measured by radiosonde instruments”, from Andhra University, Visakhapatnam, on 23 September 2019.

ACADEMIC REWARDS / ACHIEVEMENTS:

- ❖ NSS PO Award (BEST PO) Received from JNTUK
- ❖ AP State NSS Best programme Officer Award Received from AP Government for the year 2022.

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Sr. Gr. Asst. Professor	Gudlalleru Engineering College, Gudlalleru	01-07-2013 to Till date
Asst. Professor	Gudlalleru Engineering College, Gudlalleru	30-06-2006 to 30-06-2013

SPECIALIZATION: Pure Physics

RESEARCH PAPERS / BOOKS:**RECENT PUBLICATIONS/CONFERENCES:**

International/ National Journals	International / National Conferences
20	06

1. V.Naveen Kumar: “Performance of three different radiators of 8 X 8 Acoustic array antenna for Doppler Sodar”, International Journal of Advanced Engineering and Technology, ISSN: 2456-7655, Vol.1, Edition 4, March 2018, pp: 21-27.
2. V.Naveen Kumar : “Design and development of preamplifier for application of Doppler sodar using proteus software”, International Journal of Advanced Engineering and Technology, ISSN: 2454 – 9150, Vol. IMC2K18090, March 2018.
3. Two Papers presented in National Seminar at KLU, Vijayawada.
4. Presented a paper on “Installation of a Monostatic Doppler Sodar for Lower Atmospheric Studies at Gudlalleru” in National conference on “Multi Functional Materials Synthesis and Applications MFMSA - 2015” held at Dept. of Physics, The Hindu College, Machilipatnam, on 23rd & 24th January, 2015.
5. It is also published in International Journal. “Installation of a Monostatic Doppler Sodar for Lower Atmospheric Studies at Gudlalleru” International Journal of Advanced Research in Physical Science (IJARPS) Volume 2, Issue 1A, January 2015, PP 212-221, ISSN : ISSN: 2349-7874(Print).
6. We designed new active sensor systems that is the dopplar sodar for ABL Studies, work is in progress
7. Phase array antenna for lower atmospheric boundary layer studies, at Visakhapatnam, The Institution of Engineers (India) Thirty Second National Convention of Electronic and Telecommunication Engineers and National Seminar on Intelligent System for more connected world : Internet of things, Dr. K.L. Rao Bhavan, Governorpet, Vijayawada, 24-25 October 2016.
8. “Design and development of preamplifier for application of Doppler Sodar using proteus software” Published in IJREM- ISSN:2454-9150.Presented papar in IMC2K18 Organized by P.V.P.S.I.T – Vijayawada.

9. Performance of three different radiators of 8x8 Acoustic array antenna for Doppler Sodar, International Journal of Advanced Engineering and Technology.ISSN:2456-7655, Impact Factor: RJIF 5.54.
10. "A study of temperature profiles and trends as revealed by COSMIC RO technique and ballon- borne radiosonde instrument" satellite Oceanography and Meteorology, Volume 3 issue 3-2018.
11. "Anomalous wind circulation over Taipei,Taiwan during the northern winter seasons of 2004 and 2005 "– A case study, satellite Oceanography and Meteorology, Volume 3 issue 2-2018.
12. "A study of atmospheric boundary layer (ABL) height estimation using various analytical methods"- COSMIC RO measured temperature profiles, Submitted in Indian Journal of Science and Technology.
13. "A few important features of global atmospheric boundary layer heights estimated using COSMIC radio occultation retrieved data" paper accepted in Indian Journal of Physics. June 2019
14. "Earth's, Atmospheric Dynamics and Temperature and Pressure Profiles Over a Low-Latitude Indian Station Using Different Remote Sensing Techniques – A Case Study" Indian Journal of Science and Technology, Vol 12(41), DOI:10.17485/ijst/2019v12i41/148392, November 2019.
15. "Structural and impedance analysis of PAN-based Na⁺ ion conducting gel polymer electrolytes for energy storage device application" paper published in Materials Today: Proceedings, 51 (2022) 1164–1167. <https://doi.org/10.1016/j.matpr.2021.07.122>
16. "Synthesis and dielectric properties of PAN-based Na⁺ ion polymer electrolytes" paper published in Materials Today: Proceedings 51 (2022) 1168–1171. <https://doi.org/10.1016/j.matpr.2021.07.123>.
17. "A Study of Important Atmospheric Convective Indices and Their Impacts on Aviation" paper published in European Journal of Applied Sciences – August 25, 2022, Vol. 10, No. 4. DOI:10.14738/aivp.104.12519.
18. "Feasible Solutions and Role of Nanomaterials in Combating the COVID-19 Pandemic: A Preliminary Study", paper published in Trends Biomater. Artif. Organs, 34(S2), 44-51 (2020).
19. Determination of thermal conductivity, heat capacity and temperature profiles using transient conduction models Authors Publication date 2022/2 Conference Intl. Conference on Multidisciplinary Research in Sciences & Humanities Volume 1 Issue 1 Pages 39.
20. Doppler Sodar Measured Winds and Sea Breeze Intrusions over Gadanki (13.5° N, 79.2° E), Publication date 2023/8/9 Journal Sustainability Volume 15 Issue 16 Pages 12167 Publisher MDPI.

LIST OF WORKSHOPS ORGANIZED:

- ❖ 3-Day Workshop On "Scope Of Sciences And Maths In Engineering" at Gudlavalleru Engineering College, Gudlavalleru from 11-08-2011 to 13-08-2011.

LIST OF WORKSHOPS /SEMINARS ATTENDED: 10

1. Attended workshop Orientation / Refresher course by National Services Scheme Empanelled Training Institution held at Andhra University Campus, Visakhapatnam during 23rd – 29th January 2015.
2. Attended workshop National Seminar on "Global Trends in Earth's Climate – From Recent Observations" held at Dept. Of Physics, Ch.S.D.St. Theresa's College for Women, Eluru during 03rd – 04th February 2015.
3. Attended one week Faculty Development Program on "MATLAB APPLICATIONS IN MECHANICAL ENGINEERING" organized by department of Mechanical

Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru – 521356, during 07th – 11th September 2015.

4. Attended one day workshop on “Brain Storming Innovation and Incubation center” heldat Kakinada, JNTUK
5. Attended two day workshop on “Impact Programme” organized by P.B.Siddhartah College, Vijayawada, during 24th -25th September 2016.
6. **Mr. V.Naveen Kumar:** One day workshop on **Brainstorming on Innovation in Incubation Centers** (Igniting the Young Minds), organized by JNTU, Kakinada. on 1st September 2016
7. **Mr. V.Naveen Kumar,** Participated in workshop on “Happy Living in Smart Cities”, Organized by Freshman Engineering, Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada, during 30 – 31 March 2018 .
8. **Mr. V.Naveen Kumar:** participated in the “5 day regional workshop on Technical Orientation and Training for Participating Institutes” held from 14th August 2019 to 18th August 2019 organized by Mahatma Gandhi National Council for Rural Education Hyderabad in Collaboration with Dhanekula Institute of Engineering College and Technology, Vijayawada.

Training Courses, Teaching –Learning - Evaluation Technology, Faculty Development Programmes

S.No	Programme	Duration	Organized by
1.	Significance of chemistry and Physics in Nano science and Engineering materials(FDP)	25-27 June 2020	NSRIT
2.	Chemistry significance in Engineering , pharmacy, Nano Technology and Environment(FDP)	2-6 june 2020	Department Basic sciences and R&D Division in association with ACT , Mumbai
3.	Internet of Things (FDP)	7/12/2020 - 11/12/2020	All India Council For Technical Education (ATAL)
4.	Leadership through Languages International workshop	4 days June 2020	Environmental protection society, Kakinada’s Global virtual school National Institute of Ecology and Environment
5.	Technical orientation and Training for participating Institutes	14-18 August 2019	Mahatma Gandhi National Council Of Rural Education Ministry of Human Resource Department ,Government of India
6.	Strategies for effective Assessing and teaching	13-16 July 2020	Gudlavalleru Engineering Collage
7.	Intellectual property Rights & Patents	10-12 August 2020	IQAC, GEC
8.	Signals and systems	2-12 January 2014	ICT(MHRD)
9.	Orientation and refresher course	23/1/2015 – 29/01/2015	University of Training and Orientation Center(UTOC) Andhra University
10.	Orientation and refresher course	06/03/2014- 12/03/2014	UTOC JNTUK Campus

11.	Orientation and refresher course	19/08/2010-28/08/2010	University of Training and Orientation Center(UTOOC) Andhra University
12.	Instructional Design and Delivery	03/07/2006-08/07/2006	National Institute of Technical Teacher Training and Research, Chennai
13.	Matlab Applications in Mechanical Engineering(FDP)	7-11 September 2015	Gudlavalleru Engineering Collage
14.	Immersive Education with VR/AR	25 june 2020	VIT, velluri
15.	Interdisciplinary International Symposium	9 june 2020	Andhra Loyola institute of Engineering and technology
16.	Climate change and climate Variability in Maritime Continent	4/11/2020	Department of Physics Universities Andalas
17.	Exploring Science of Atmosphere from space (International workshop)	26 august 2020	KLU University
18.	Air pollution and Climate Change-Challenges and Mitigations	26 November 2021	KLU University

Papers presented in Conferences, Seminars, Workshops, Symposia

S.No	Title of the paper presented	Title of Conference / Seminar etc	Date (s) of the event	Organized by	Whether International/ National/State/Regional / University or college Level
1.	A study of important atmospheric convective indices and their impacts on aviation	International conference on Advances in Computer engineering and communication Technology	22/10/2021 & 23/10/2021	Aditya collage and AICTE	International
2.	Development of Pre Amplifier for application of Doppler Sodar using proteus software	International Multidisciplinary conference on Knowledge sharing technological Advancements and sustainable development	2018	Siddhartha Institute of Technology	International
3.	Installation of a Monostatic doppler sodar for Atmospheric boundary layer studies	Multi Functional Materials Synthesis and Applications	23/01/2015 & 24/01/2015	The Hindu Collage	National
4.	Techniques of probing environment by different ground based remote facilities	Recent trends in Nanoscience and technology for device Applications	04/04/2013 & 05/04/2013	KLU University and Department of Science and	National

				Technology, New Delhi	
5.	Doppler SODAR performance for different parameters	Recent trends in Nanoscience and technology for device Applications	04/04/2013 & 05/04/2013	KLU University and Department of Science and Technology, New Delhi	National

INTERNATIONAL CONFERENCES & WORKSHOPS ATTENDED:

- 1. Mr. V.Naveen Kumar**, attended training program at the International School on Atmospheric Radar - National Central University (ISAR-NCU), Location: National Central University, Chung Li, Taiwan, during 12 – 16 November 2018.
- 2. Mr. V.Naveen Kumar:** International Workshop at National Institute of Aeronautics and Space (LAPAN) in Bandung, Indonesia. International School on Equatorial Atmosphere (ISQUAR), during 18 – 22 March 2019.

COMPLETED PROJECTS

1. Installation of a Monostatic Doppler Sodar for Lower Atmospheric Studies at Gudlavalleru **university(UGC)**

APPLIED PROJECT

1. “Ground-level Empirical Study on PM-KISAN Scheme to Assess Inclusive Growth of the Beneficiaries and Subsequent Adoption of Advanced Technologies by Small and Marginal Farmers in Rural Mandals of West Godavari and Krishna Districts, Andhra Pradesh”

CO-CURRICULAR, EXTENSION, PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES

1. Student related co-curricular activities (subject related) Counsel students to overcome their personal , social and mental problems. Students are motivated guided to present papers at tech fest and do model projects
2. Field based activities through NSS/NCC and other channels (UBA). As a NSS officer conducted nearly 16 special camps and 300 activities Students are encouraged to conduct field trip to neighboring villages and Encouraged many students to involve in many programs and established NSS band in our institution
3. Completed four refresher courses in Andhra university , I worked with different organizations like NGO , Lions club and rotary club By involving the students in the programs with these organizations they are benefited through that organizations.
4. Wrote many songs and dramas which includes moral values Students are motivated by these songs and plays . They are very useful in all round personality development.
5. Overall department and collage level discipline Coordinator .
6. Medical center monitoring member(vaccination Camp In charge)
7. GEC Fest cultural co coordinator and press Committee Coordinator.

	(ii) Contribution to Corporate Life and Management of the Institution	Yearly/Semester wise responsibility
1.	Contribution to corporate life and management of	As NSS program officer, I collected waste books and sold them

	the institution	out
2.	Faculty club and faculty association secretary	As a secretary I successfully rendered my services to my faculty colleagues
3.	Yoga club and musical club	I rendered my services in the establishment of yoga club and music club
	(iii) Professional Development Activities	
1.	NAAC , NBA	As a NSS program officer I supported collage extension programs

Examination Duties Assigned and Performed:

S.No	Type of Examination Duties	Duties Assigned
1.	Invigilator	Attending invigilation of internal tests
2.	Question paper setting	Deputed by other universities as chairman of paper setting committee. Setting of question papers for internal tests and end semester examinations for other universities
3.	Evaluation	Valuation of answer scripts in connection with internal tests and end semester lab examinations
4.	spot valuation	Attended for chief examiner , valuer for various examinations .
5.	Moderator	Scrutinized the External examination Paper set by external Examiner
6	Squad member	To monitor The examination pattern and make rounds to control malpractices in the examination hall at collage

GUEST LECTURES DELIVERED: 50

MEMBERSHIP IN PROFESSIONAL BODIES: IPA

My Academic Achievement:

1. In my 5th class i got first rank in mandal level (Gudlavalleru, Krishna district) .At thattime i received merit certificate from educational minister.
2. In my 10th class I got school first(s.v.v.g.r.g.h school , Dokiparru ,Krishna district).
3. In my graduation I received merit certificate for getting college first.(S.C.S Kalasala,Gudlavalleru)
4. In post graduation i stood in second place in T.J.P.S. college, Guntur. Affiliated toNagarjuna University.
5. For P.hD admission i got 4th rank in A.P.state.
6. I was trained at National Institute of Technical Teachers Training Programme, Chennai.
7. In my school days i received so many certificates in essay writing, debating and

quizcompetitions.

- 8.** I participated in National Jamboree at Kerala and received certificates from our primeminister in year 1995.
- 9.** I received Raja Puraskar award from our A.P. State governor Krishnakanth.
- 10.** These are few achievements in educational and professional life. I have all the certificates for the achievements which i mentioned above.
- 11.** I was appointed as a NSS DPO for Krishna and NTR Districts by JNTUK
- 12.** I received best N.S.S.program officer award in Kakinada J.N.T. University out of 200 colleges in the year 2014
- 13.** I received best N.S.S. programme officer award in Kakinada J.N.T. University out of 200colleges in the year 2019
- 14.** I was trained at National Institute of Technical Teachers Training Programme, Chennai.
- 15.** In my school days i received so many certificates in essay writing, debating and quiz competitions.
- 16.** I participated in National Jamboree at Kerala and received certificates from our prime minister in year 1995.
- 17.** I attended 5 National seminars and one international conference and also i delivered lecture in different colleges.
- 18.** These are few achievements in educational and professional life. I have all the certificates for the achievements which i mentioned above.
- 19.** I feel proud to complete my studies in government schools and college.
- 20.** I received AP State best N.S.S. programme officer award in Krishna University in the year 2021-2022.
- 21.** I also received appreciation letters from ATAL & UBA.
- 22.** I attended National Integrity Camp at Ambala, in the academic year 2022, I'm the representative for Andhra Pradesh state.
- 23.** I was Appointed as a Mentor for the ATAL Tinkering Labs.