



PROF. H. ALEEM BASHA, PROFESSOR OF PHYSICS

CURRENT DESIGNATION/ INVOLVEMENT	Currently working as a Professor of Physics in Physics Section of School of Sciences, Maulana Azad National Urdu University (Central University), Hyderabad -500032, Telangana, India.
AREA OF SPECIALIZATION	Space Physics/Atmospheric Sciences/Nanotechnology/ODL.
ONGOING ACADEMIC RESEARCH/PROJECTS	Atmospheric Sciences/Bio-Physics
INNOVATION WITH FIELD OF STUDY AND COLLABORATIVE EFFORTS	1. Taken role in collaboration with Nizam College of Osmania University for Ph.D. programme in Bio-Physics specialization. 2. Similarly, with ACRHEM of University of Hyderabad for data analysis.
ACADEMIC AND ADMINISTRATIVE EXPERIENCE	#PROGRAMME COORDINATOR OF PHYSICAL SCIENCES (REGULAR MODE) #CO-ORDINATOR OF B.SC.PROGRAMMES (DISTANCE MODE) # Coordinator for B.Sc. Practicals (Distance Mode) #Assistant Registrar on Special Duty (OSD-DDE) from 2010-2014. # Head of the Department of Physics since 2014. # Deputy Director, CSE-RCA of MANUU since 2016. # In-Charge Director, CSE-RCA of MANUU since 2019. # Member of Green Audit Committee of MANUU. # Member of Single Use Plastic (SuP) committee of MANUU. # Appointed as an Observer in various Examinations of MANUU. # Chairperson of Board of Studies committee of Physics at MANUU. # Member of various committees of MANUU like Horticulture, Purchase, Examination, Student Grievance re-ddressal, Azad Day celebratios, UGC

Advisory Committee (MANUU), Library committee, Convocation, IQAC Committee etc.,

EDUCATIONAL
QUALIFICATION

Ph.D in Physics
Osmania University, Hyderabad.

TEACHING PROFICIENCY

In Physics and Electronics

RESEARCH PUBLICATION
DETAILS

1. Short Review on the Sneezing Bio-Aerosols *Syed Altaf Ahmed A.R., Syed Mohammad Shoaib, H.Aleem Basha, Anil Kumar Chaudhary* Internal Journal of Advanced Research in Science, Communication and Technology, Vol.2, Issue 4, April 2022.(ISSN No.2581-9429) – **6.252**
2. Study of Annual and Semiannual Amplitudes over India from FFT Spectra of Atmospheric Lifted Index using Singular Spectrum Analysis (SSA) *Talat Parveen, Shaik Abdul Muneer, Rehman M.K., H.Aleem Basha* Applied Ecology and Environmental Sciences, Vol.10, No.4, March 2022, 174-183.
(Available online at <http://pubs.sciepub.com/aees/10/4/1>).
3. Observation and comparisons of variation in instability indices in different weather regions of India through radiosonde data, *Talat Parveen, H.Aleem Basha*, Journal of Emerging Technologies and Innovations Research, Vol.8, Issue 3, March, 2021, 1601-1608 (ISSN No. 2349-5162)
4. General Circulation of Basic Atmospheric Parameters over a low latitude station (Hyderabad); *Humair Hussain, H.Aleem Basha, Mazher Saleem*; Journal of Applied Physics (IOSR-JAP), Vol.7, Issue 3 Ver.III (May-Jun.2015) pp 01-05.(e-ISSN: 2278-4861).- **3.15**
- 5.Madden-Julian Oscillation over Hyderabad (A Low Latitude Station) Using Radiosonde Parameters; *Humair Hussain,H.Aleem Basha,Mazher Saleem,Zuleqar Hussain,H.Azhar Salam*; Journal of Applied Physics (IOSR-JAP), Vol.7, Issue 6 Ver.II (Nov.-Dec.2015) pp 60-63. (e-ISSN: 2278-4861).- **3.15**
- 6.Madden-Julian oscillation over Jakarta by relative measurement of Pressure; *Humair Hussain,H.Aleem Basha, Mazher Saleem,Zulfeqar Hussain, H.Azhar Salam*; Journal of Environmental Science,Toxicology and Food Technology (IOSR-JESTFT), Vol.10, Issue 6 Ver.I (Jun.2016) pp 05-09.(ISSN:2319-2399).- **3.46**
- 7.Impact of Madden Julian Oscillation on Basic Parameters of Atmosphere;*Humair Hussain,H.Aleem Basha, Mazhar Saleem*;Journal of Applied Physics (IOSR-JAP), Vol.8 Ver.V (Nov-Dec.2016), pp06-09. (e-

ISSN: 2278-4861).- **3.15**

8. Trends of Stability indices over different meteorological stations of India by using IGRA Radiosonde data; *Md.Khaleelur Rahiman, H.Aleem Basha, K.Thyagarajan*; Journal of Emerging Technologies and Innovative Research (JETIR); Vol.4, Issue 12, December 2017, pp513-518.(ISSN: 2349-5162).- **5.87**

9. Convective available potential energy variability over India; *Md.Khaleelur Rahiman, H.Aleem Basha, K.Thyagarajan*; Journal of Emerging Technologies and Innovative Research (JETIR); Vol.4, Issue 12, December 2017, pp1061-1068. (ISSN: 2349-5162).- **5.87**

10. Intrinsic Frequency Components Observed in CAPE over India using EMD and Lomb-Scargle periodogram; *Md.Khaleelur Rahiman, H.Aleem Basha, K.Thyagarajan*; Published in Conference Proceeding of 5th International Conference on Science, Technology and Management (ICSTM-2017) on 3rd December, 2017.

11. General Circulation of the atmosphere over Bangalore using Radiosonde data; *Shaik Abdul Muneer, H.Aleem Basha*; Journal of Emerging Technologies and Innovative Research (JETIR); Vol.5, Issue 9, September 2018, pp279-289. (ISSN: 2349-5162).- **5.87**

12. Various atmospheric oscillations over low latitude station, Bangalore using Radiosonde data; *Shaik Abdul Muneer, H.Aleem Basha*; Journal of Emerging Technologies and Innovative Research (JETIR); Vol.5, Issue 10, October, 2018, pp 146-155. (ISSN: 2349-5162).- **5.87**

13. VHF radar observations of gravity waves at a low latitude, H.Aleem Basha
G.Dutta, B.Bapiraju, P.Balasubrahmanyam, Annales Geophysicae European Geophysical Union (EGU) (ISSN 0992-7689), 1999.

14. Seasonal variation of solar tides in the troposphere and lower stratosphere over Gadanki: Comparisons with the global scale wave model, H.Aleem Basha,
Gopa Dutta, B.Bapiraju, P.Balasubrahmanyam, M.A.Aleem Siddiqui, Radio Sci. American Geophysical Union (AGU) (ISSN 1944-799X), 2002.

15. Vertical wave number spectra of wind fluctuations in the troposphere and lower stratosphere over Gadanki: a tropical station, H.Aleem Basha, Gopa Dutta, B.Bapiraju, T.S.P.L.N.Prasad, P.Balasubrahmanyam, J. of Atmos. and Solar Terr. Phys. Elsevier Publications (ISSN-1364-6826), 2005.

16. Comparison of gravity wave momentum fluxes estimated by different methods using mesosphere-stratosphere-troposphere radar, H.Aleem Basha, Gopa Dutta, B.Bapiraju, P.V.Rao, A.I.Sheeba, M.C.Ajay Kumar, P.Balasubrahmanyam, Radio Sci. American Geophysical Union (AGU) (ISSN 1944-799X), 2005.

17. On the optimum time of integration for estimation of momentum flux from VHF radar data, H.Aleem Basha, Gopa Dutta, P.V.Rao, M.C.Ajay Kumar, P.Vinay Kumar, Geophys. Res. Letters American Geophysical Union (AGU), (ISSN 1944-8007), 2005.

18. Characteristics of high frequency gravity waves generated by tropical deep convection: Case studies, Gopa Dutta, M.C.Ajay Kumar, P.Vinay Kumar, M.Venkat Ratnam, M.Chandrashekar, Y.Shibagaki, J. Geophys. Research American Geophysical

Union (AGU) ISSN (2156-2202), 2009.

19. **High resolution observation of turbulence in the troposphere and lower stratosphere over Gadanki**, G.Dutta,M.C.Ajay Kumar,P.Vinay Kumar,P.V.Rao, B.Bapiraju, **H.Aleem Basha**, Annales Geophysicae European Geophysical Union (EGU) (ISSN 0992-7689), 2009.

20. **Response of tropical lower atmosphere to annular solar eclipse of 15 January 2010**, Gopa Dutta, P.V.Rao, P.Vinay Kumar, M.Venkat Ratnam, Saluddin Mohammad, M.C.Ajay Kumar, **H.Aleem Basha**, J. of Atmos. and Solar Terr. Phys. Elsevier Publications (ISSN-1364-6826), 2011.

21. **Distance education : Boon for differently abled learners**, **H.Aleem Basha**, S.Maqbool Ahmed, Third Concept, (ISSN 0970-7247), 2011.

22. **Zonal and meridional winds over Hyderabad**, **H.Aleem Basha**, Gopa Dutta, M.N.Joshi, J.V.Subba Rao, Indian Journal of Radio & Space Physics(ISSN-0367-8393), 1996.

23. **Wind and temperature over Hyderabad during the solar eclipse of 24 Oct. 1995**, **H.Aleem Basha**, Gopa Dutta, MN Joshi, N.Pandarinath, B.Bapiraju, S.Srinivasan, J.V.Subba Rao, Indian Journal of Radio & Space Physics, (ISSN-0367-8393), 1999.

24. **Long period atmospheric oscillations in the troposphere and lower and middle stratosphere over Hyderabad**, **H.Aleem Basha**, M N Joshi, B.Bapiraju, S.Srinivasan, J.V.Subba Rao, Gopa Dutta, Indian Journal of Radio & Space Physics (ISSN-0367-8393), 1999.

25. **Different methods to study gravity wave variance – A comparison**, B.Bapiraju, P.Balasubrahmanyam, S.Nasir Hussain, Gopa Dutta, **H.Aleem Basha**, Indian Journal of Radio & Space Physics (ISSN-0367-8393), 2000.

26. **Drop out trend in Distance education : A case study of Maulana Azad National Urdu University**, **H.Aleem Basha**, S.Maqbool Ahmed, Kakatiya Journal of Distance Education, 2007.

27. **Distance Education Scenario of Maulana Azad National Urdu University**, K.R.Iqbal Ahmed, S.Maqbool Ahmed, **H.Aleem Basha**, Kakatiya Journal of Distance Education, 2010.

28. **E-Governance in Open University for Quality assurance**, **H.Aleem Basha**, B.Murahari, S.Maqbool Ahmed, University News (ISSN 0566-2257), 2011.

DETAILS OF
CONFERENCE/SEMINAR
/WORKSHOP/ FDP
(ATTENDED/PRESENTED)

1. Participated in UGC sponsored Orientation Course from 24th March to 20th April, 2007 at UGC Academic Staff College, MANUU, Hyderabad.

2. Presented a paper in the International Conference on Distance Education (iCODE) at Dr.B.R.Ambedka Open University, Hyderabad from August, 23-25th,2007.

3. Attended Five Day workshop on script writing for Audio/video programme organised by Instructional Media Centre, MANUU from Sep, 10-14, 2007.
4. Presented a paper entitle “Student dropout rate in Distance Education” in IDEA, 2007 Conference held at DDCE,Utkal University, Bhubaneswar.
5. Presented a paper entitled “ Quality assurance in development and distribution of course material in ODL System” in DEC National Seminars, organized by Sri Venkateswara University, Tirupati from 24-25th July, 2009.
6. Attended UGC sponsored Refresher Course in Open and Distance Learning conducted by UGC, Academic staff College , MANUU from 27th Aug,2009 to 16th Sept, 2009.
7. Organized and Participated in a Five Day DEC sponsored Workshop on preparation of Glossary of Scientific Terminology in Sciences (Botany and Physics) from 17th August, 2009 to 21st August, 2009 at DDE, MANUU campus, Hyderabad.
8. Presented a research paper entitled “Role of Educational Technology for Effective Instructional learning of differrently abled students in ODL System” in the National seminar on Open Distance Learners Support services -Role of Media. Organized by Dr.BR Ambedkar Open University, Hyderabad 20-21st Oct,2010.
9. Attended Five Day UGC sponsored Professional Development Programme ICT-Higher Education organized by UGC-Academic Staff College, MANUU from 13th December to 17 December, 2010.
10. Presented a research paper entitled “ Empowerment of differently abled learner through ODL” in the IDEA 2011 (The 16th Annual Conference) held on 26th March, 2011 at Kakatiya University, Warangal.
11. Presented a paper entitled “Quality Assurance and Accessibility of ODL through information and communication technology” in the Three day national Conference on Access and Equity through ODL in Higher Education:Role of Indian Language Universities from 23rd-25th March , 2011 at Maulana Azad National Urdu University, Hyderabad.
12. Presented a research paper in the International Conference on Quality Enhancement in Distance Education for Life long learning on 27th March, 2011at Bharathidasan University, Tiruchirappalli.
13. Presented a research paper entitled “The Impact of Technology on Quality in Open and Distance Learning: The Higher Education perspectives” was presented in the 12th International Conference of Science and Technology Impact on Development and Justice on 7th & 8th February, 2012 held at MANUU, Hyderabad.

14. Participated in the Five day workshop cum Training Programme on “Good Governance in ODL System: from 27-31st January, 2012, sponsored by CEMCA (Common wealth of Learning)

15. As a STRQ unit member Three Day work shop Training Programme for the Non-teaching staff of DDE was organized from 19-21st March, 2012 in collaboration with CEMCA.

16. Paper presented in One Day National Conference on Challenges of Higher Education held on 21st January, 2012 at Anjuman Arts Science & Commerce College, Dharwad.

17. Presented a paper entitled “ Quality Assurance in Open Distance Learning : Challenges to be addressed” in the Third International Conference (18th Annual Conference of IDEA) organised by Indian Distance Education Association in collaboration with Maulana Azad National Urdu University, held from 5-7th April, 2013.

18. Organized the Three Day Training Programmed for Non Teaching staff of DDE,MANUU from 30th March to 1st April, 2013 sponsored by DEC.

19. Participated in UGC sponsored Refresher course of Research Methodology in Basic Sciences from Academic staff college of Osmania University, from 18th November to 7th December,2013

20. Chaired Session and presented paper in the 2019 National Urdu Science Congress held at Maulana Azad National Urdu University, Hyderabad

21. Chaired in one technical session of National Urdu Science Congress held on 25 & 26th February, 2020 at Maulana Azad National Urdu University, Gachibowli, Hyderabad.

22 . Attended and participated in a Virtual Workshop on “Online Teaching, Learning and Evaluation with Moodle MOOC Platform” conducted by Prof.K.Srinivas, NIEPA, MHRD, Govt of India and organized by IMC,MANUU on 29th May, 2020.

23 Coordinated the Refresher Course in “Winter School in Basic Sciences” organized by the UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad in December,2018.

24 Attended and participated actively in UGC-Sponsored online One week workshop on “Implementation of National Education Policy-2020” organized by UGC-HRDC, MANUU from 9th to 14th May, 2022.

ACHIVEMENTS

1. Co-Investigator of an ISRO project of Rs.5,02,000/- [No.10/2/272] titled “Radar Measurement of Momentum fluxes of Gravity Waves and Tides in the Lower Atmosphere over a Tropical station”. The project has been completed successfully on 30th November

2004 and produced two publications.

2. Co-Investigator of a DST project of Rs.6,29,088/- [No.ESS/63/185/2K] titled "Consistency of different methods to monitor eddy diffusion coefficients and energy dissipation rates and their seasonal variabilities." The project has been completed successfully on 31st July 2005 and produced Two publications.

3. Co-Investigator of an ISRO project of Rs.8,38,000/- [No.10/2/317, started on 1/4/2005] titled "Investigation of Tropical Convection through Observations of Gravity waves and Troposphere-Stratosphere Exchange of Various Parameters". The project has been completed successfully on 30th September, 2008. Three publications have been produced.

4. Co-Investigator of an ISRO project of Rs. 41,37,400/- [No.CAWSES-08 dated 26/11/2008] titled "A campaign to investigate middle atmospheric structure and dynamics including exchange processes over Indian tropical region, using high altitude balloon data, radar and LIDAR observations".

5. Principal Investigator of UGC-Minor project of Rs.1,05,000/- [No.MANUU /Acad / F.404/2016-17/217 dated 06/12/2016] titled "To study eddy diffusion coefficients and energy dissipation rates over a tropical station (Hyderabad)". Completed successfully on 15.03.2018 and submitted project completion report at MANUU.

BOOKS & SELF LEARNING MATERIALS:

- ▶ Published **Engineering Physics** Book in English (2009).
- ▶ Coordinated & Edited **Environmental studies** SLM in Urdu for DDE Students of B.A./B.Sc./B.Com. (2011).
- ▶ Published a Book **Atmospheric Dynamics Over Hyderabad** in English (2013)
- ▶ Edited **Scientific Terminology in Physics** (English Vs Urdu) – (2016).
- ▶ Published **Physics Made Simple** in Urdu for B.Sc. Students (2017).
- ▶ Published **Research Methodology** in Urdu for Science Research Scholars (2018).
- ▶ Written & Published **14 Units** of Physics - I Year SLM in Urdu for DDE(2019).
- ▶ Edited & Published **Physics Lab. Manual** of I and II Semester in Urdu(2020).
- ▶ Edited I and II semester **Physics SLM** in Urdu for DDE (2021).

DETAILS OF SUPERVISION
(M.PHIL/M.TECH/P.HD.)

13 M.Phils. – Awarded and **01** Ph.D. – Awarded

PROFESSIONAL
MEMBERSHIPS

1. Chairman for Board of Studies in Physics at MANUU, Hyderabad.
2. External member (Alumini) for Board of Studies in Physics at Anwarul-Uloom College (Autonomous), O.U., Hyderabad.
3. Academic Advisor for Ideal Educational Society at Kurnool.
4. Vice-President for MANUU Teachers Association for 2014-15.
5. Treasurer for MANUU Teachers Association for 2012-13.
6. Treasurer for GTOS (Residential flats) for 2012-14 & 2014-17
7. External member (Alumini) for Board of Studies in Physics at Osmania College (Autonomous), Kurnool, (A.P.)
8. External member for Board of Studies in Physics at B.V.R.Reddy College for women (Autonomous), O.U., Hyderabad.
9. External member for Board of Studies in Electronics at University College of Science, Osmania University, Hyderabad.
10. External member for Departmental Research Committee at Department of Physics, Dr.B.R.Ambedkar Open University, Hyd.

PERSONAL DETAILS

Father's Name : H. ABDUL HAKEEM
Date of Birth : 26th April, 1968.
Gender : MALE
Marital Status : MARRIED
Nationality : INDIAN
Language Known : ENGLISH, HINDI, URDU, ARABIC & TELUGU.
Etc..

Date: 30-05-2022
Place: HYDERABAD

HAKHEEM ALEEM BASHA
(*Your Full Name Here*)