

DEPARTMENT PROFILE

CONTACT ADDRESS:

DrVANAJA.V

Flat No.101 V4 Bliss Apartment,
Vinayaka Layout,
Bhattarahalli ,Virgonagar Post,
Bangalore -560049.



Mobile–0 9945755218

E Mail –vanajaksr94@yahoo.com

CAREER PROFILE:

I am having 17+ years of work experience in teaching and 10+ years of research experience in the field of Indian Mathematics and Astronomy.

EDUCATIONAL QUALIFICATION: M.Sc., M.Phil., Ph.D(Mathematics).

Ph.D:Dravidian University Kuppam : **Title of Thesis:** A Comparative Study of Planetary Phenomena in Indian Classical Astronomy Vis-a-Vis Modern Astronomy.

WORK EXPERIENCE:

Entry into Service : 17-09-2009.

Designation: Assistant Professor, Department of mathematics.

Present Organization: Government First Grade College, Yelahanka, Bangalore-560064.

Orientation/ Refresher/Training Attended

Nature of Training	Period of training	Place of training	University of training	Grade received
Orientation Course	01-08-2011 To 29-08-2011	UGC ASC Bangalore	Bangalore University	A
Refresher Course	1) 27-01-2014 To 15-02-2014 2) 29-08-2018 To 19-09-2018 3) 18-11-2019 To 30-11-2019	UGC Academic Staff College, Bangalore	Bangalore University	A
Faculty development program for Under Graduate Teacher's	21-03-2011 To 25-03-2011	ATI Mysore	Department of Collegiate Education and Infosys	
Teachers Empowerment Training for Assistant Professors	05-06-2011 To 11-06-2011	Dayanand Sagar College Bangalore	Department of Collegiate Education and Karnataka GnanaAyoga	

Resource person:

1. Attended as a resource person at Vedic seminar-8 conducted by VedavyasaBharati Trust at BTM Layout, Bangalore on 22nd July 2013.
2. Attended as a resource person in one day symposium conducted by "M.S Ramaiah college of Arts, Science and Commerce" on 26th August 2013.
3. Attended as a resource person for two day workshop conducted by "Gandhi centre of Science and Human values Bharatiya Vidya Bhavan" on 16th and 17 of September 2013.
4. Attended as a resource person for one day workshop on "Mathematics and Astronomy of Bhaskaracharya II" at Jawaharlal Nehru Planetarium, Bangalore on 13th July 2014.

5. Attended as a resource person in one day workshop on the “Life and work of Bhaskaracharya –II” on 4th December 2014 held at Teachers’ Academy PU College Bangalore.
6. Resource person in one day workshop on “The Works of Mathematician Bhaskaracharya-II” on Dec 25,2014 at EVS Hall of BharatiyaVidyaBhavan, Bangalore.
7. Resource person for one day workshop on “Bhaskara II and his works” on 6th Feb 2015 at M.E.S college of Arts, Commerce and Science, Malleswaram Bangalore.
8. Resource person for ‘Symposium on Bhaskaracharya II’ on 7th Feb 2015 at The Mythic Society, Bangalore.
9. Resource person for UGC sponsored one day workshop on ‘Indians contribution to Mathematics and astronomy’ conducted by the Department of Mathematics on 24th February 2015 at A E S National College, Gauribidanur.
10. Resource person for UGC sponsored one day state level seminar on ‘LeelavathiGanitha’ organized by JSS College for women, Chamarajanagar, on 7th March 2015.
11. Participated and delivered a lecture on “Magic Squares in GanitaKaumudi” organized by department of Sanskrit MES college Bangalore, on 23rd February 2017.
12. Participated in a two day workshop on “Real Analysis” sponsored by IASC held on 10th and 11th August 2017. Organized by the department of Mathematics, GFGC K R Puram Bangalore-36.
13. Participated and delivered lecture on “Wonders of Magic Square” to benefit mathematics teachers at Region Museum of Natural History, Mysore on 22nd October 2017.
14. Participated and delivered guest lecture on “Indian Mathematics” at GFGC HSR Layout Bangalore, on 25th October 2017.
15. Participated as resource person in UGC-Autonomous sponsored workshop on “Indian Mathematics” at Smt. V.H.D Central Institute of Home Science College Bangalore-01, on 16th March 2018.

16. Delivered guest lecture on “Applications of Differential Equations” in the webinar conducted by GFGC KadugodiBangalore, on 06th June 2020.
17. Delivered guest lecture on “Indian Mathematics” in the webinar conducted by GFGC MalleshwaramBangalore, on 30th November 2020.

PAPERS PRESENTED

1. Presented a paper on “Planetary positions according to *Vākyakaraṇa*- a Comparative Study” at a one day National Workshop organized by HAMSI at Chennai Mathematical Institute (CMI), Chennai on 26th December 2013.
2. Presented a paper “Transits and Occultations in Bhaskara’sKaraṇakutūhala” at an International Conference ‘Bhaskara 900’ held at VidyaPrasarakMandal, Thane, Maharashtra on 18th to 21st Sept 2014.
3. Attended as an Invited speaker at the international conference on History and Development of Mathematics (ICHDM 2014) held at Department of Mathematics, S.P. University, Pune during November 27-30, 2014 and presented a paper on “True Positions of Planets according to Karaṇakutūhala” as an invited speaker”.
4. Attended as an Invited speaker at the National Work shop on Life and works of Bhaskaracharya –II, 8th -12th December 2014, at Rashtriya Sanskrit Vidyapeeta, Tirupati and presented a paper on “Grahayuti in Bhaskara’sKaraṇakutūhala”.
5. Presented a paper on “Lunar Occultations of Stars” at National conference on Recent trends in Physics, Mathematics and electronics, RTPME-2015, Sarada Vilas College, Mysore on 20th and 21st Feb 2015.
6. Presented a paper on “True Positions of Planets –A Comparative Study” at UGC sponsored one day state level seminar organized by JSS College for women, Chamarajanagar, on 7th March 2015.
7. Presented a paper on “Moon’s crossing of its Perigee and Apogee and the Supermoon” at UGC Sponsored National Conference NCSER-2016 organized by Basaveshwara College, Bangalore on 29th -30th January 2016.
8. Attended as invited speaker at two days National Conference on “Life and works of Bhaskaracharya II” on 22nd and 23rd August, 2016 at Karnataka State Women’s University, Vijayapura.

9. Presented a paper on “Application of Mathematics to Eclipse Analysis” at UGC Sponsored National Conference RAIMS-2017 organized by Government Science College, Bangalore on 9th and 10th Feb-2017.
10. Presented a paper on “Lunar Eclipses-Accuracy of Indian Procedure” at National Conference organized by Postgraduate department of Mathematics, National College, Jayanagar, Bangalore-70 on 4th October 2018.
11. Presented a paper on “HemangadaThakkura’sGrahamamala Eclipses 1620-2708 CE” in the three day conference held at Sri ChandrashekarendraSaraswatiVishwaMahavidyalaya, Enathur, Kanchipuram from 27th to 29th November 2018.
12. Presented a paper on “Comprehensive study of Grahamamala and Grahamadarpana” at International Symposium on Astral Sciences in Asia, IIT Bombay from 24th to 26th January 2019.
13. Presented a paper on “A Comprehensive study of Grahamadarpana” at 2nd National conference on ‘Emerging Trends in Applied Mathematics’ organized by the department of Mathematics SJBIT Bangalore held on 4th May 2019.
14. Presented a paper on “Lunar Eclipses in Indian Astronomy” at Bangalore University “International Conference on Mathematics and its Applications (IMCA-2020) held on 28th and 29th February 2020.

BOOKS PUBLISHED:

Authored by S.BalachandraRao,Shailaja.M,Vanaja.V

Dec 2012	Bhavan’s Gandhi Centre of Science and Human Values, Bangalore-01	Co-Author for “BharathadasuprasiddhaGanitajnar u”(Famous Indian Mathematicians)	ISBN-978-81-89220-43-3
June 2013	Nava Karnataka publications, Bangalore	Co-Author for “Maya chowkagalaswarasya”(Wonders of Magic square)	ISBN-978-81-8467-351-7
June 2013	Nava Karnataka	Co-Author	ISBN-978-81-

	publications, Bangalore	for”Bharathadallisankhyapaddhat himatturekhaganitha”(Number System and Geometry in India)	8467-366-1
August 2016	Karnataka RajyaVijnanaParishat, Bangalore	Co-Author for “Sankhyasampannaru”	ISBN-978-93- 83212-25-5
February 2020	Bhavan’s Gandhi Centre of Science and Human Values, Bangalore-01	Co-Author for “Bijjadabeedadha(Bijjaragi) BhaskaracharyaGanakachakracho odaamani	ISBN:978-81- 89220-64-8

PAPERS PUBLISHED

1. **Vanaja.V**, Shailaja.M, S.BalachandraRao, “True positions of Planets according to *Karaṇakutūhala*”, *GanitaBharati* Vol.36, No1-2(2014), 197-219. **ISSN-0970-0307**
2. Shailaja.M, **Vanaja.V**, S.BalachandraRao, “The phenomena of retrograde motion and visibility of interior planets in Bhāskara’s works”, *GanitaBharati* Vol.36, No1-2(2014), 197-219. **ISSN-0970-0307**
3. **Vanaja.V**, Shailaja.M, S.BalachandraRao, “Lunar occultations of stars”, *Proceedings of RTPME-2015*, 269-273. **ISBN 978-81-930115-1-5**
4. Shailaja.M, **Vanaja.V**, S.BalachandraRao, “A brief study of heliacal rising, setting and circumpolar stars”, *Proceedings of RTPME-2015*, 274-278. **ISBN 978-81-930115-1-5**
5. **Vanaja.V**, Shailaja.M, S.BalachandraRao, “Moon’s passage through apogee and Super Moon”, *Proceedings of NC SER-2016*, 136-140. **ISBN 978-93-85629-14-3**
6. Shailaja.M, **Vanaja.V**, S.BalachandraRao, “Application of continued fractions in planetary phenomena”, *Proceedings of NC SER-2016*, 83-86. **ISBN 978-93-85629-14-3**
7. **Vanaja.V**, Shailaja.M, S.BalachandraRao, “Application of Mathematics to Eclipse Analysis”, *International Journal of Scientific and Engineering Research* Volume 8, Issue 5th May 2017. **ISSN 2229-5518**.
8. Shailaja.M, **Vanaja.V**, S.BalachandraRao, “Fourier Analysis of Equation of Centre”, *International Journal of Scientific and Engineering Research* Volume 8, Issue 5th May 2017. **ISSN 2229-5518**.

9. S.BalachandraRao,Shailaja.M,**Vanaja.V**, “Angular Diameters (*Bimba*) of the Sun, Moon and Earth’s shadow-cone in Indian Astronomy – A Comparative Study”, Indian Journal of History of Science,52.2(2017)117-123.DOI:10.16943/ijhs/2017/v52i2/49050.

ARTICLES PUBLISHED

1. An article on “MayachowkagalaMoju” Published in VijnanaSangathi, samputa-18, sanchike-9, Kannada University, Hampi, July 2013, ISSN-0971-6769.
2. An article on “Bhaskaracharya’s Contribution” published in Teacher Magazine, September 2014.
3. An article on “Bharathadaprasiddhaganitashastrajna Dr. Ganesh Prasad” Published in VijnanaSangathi, samputa-20, sanchike-1, Kannada University, Hampi, November 2014, ISSN-0971-6769, pp 15,16 and 33.
4. An article on “Bharathadaprasiddhaganitashastrajna Prof .K. AnandaRao” Published in VijnanaSangathi, samputa-20, sanchike-6, Kannada University, Hampi, April 2015, ISSN-0971-6769, pp 23,24and 33.
5. An article on “Bharathadaprasiddhaganitashastrajna Dr. R.Vaidyanathaswami” Published inVijnanaSangathi, samputa-20, sanchike-10, Kannada University, Hampi, August 2016, ISSN-0971-6769, pp 20,21and 40.
6. An article on “Bharathadaprasiddhaganitashastrajna Prof. K. S. Iyengar ” Published in VijnanaSangathi, samputa-21, sanchike-1, Kannada University, Hampi, November 2015, ISSN-0971-6769, pp 26,27.
7. An article on “Bharathadaprasiddhaganitashastrajna Prof. S.S. Pillai ” Published in VijnanaSangathi, samputa-21, sanchike-6, Kannada University, Hampi, April 2016, ISSN-0971-6769, pp 26,27.
8. An article on “Bharathadaprasiddhaganitashastrajna Prof. D.D. Kosambi” Published inVijnanaSangathi, samputa-21, sanchike-11, Kannada University, Hampi, September 2016, ISSN-0971-6769, pp 24-26.

Successfully completed project on “**A Critical Study of**

HemangadaThakkura’s*Grahaṇamālā*”funded by **Indian National Science**

Academy (INSA) New Delhi,

March 2019.