

Dr. BONU. AKKAYYA



Department:

Basic Sciences and Humanities

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RESIDENTIAL ADDRESS:

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No: 16,
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ACADEMIC QUALIFICATIONS: M.Sc. Ph.D

ACADEMIC REWARDS/ ACHIEVEMENTS:

- ❖ Got Best paper award in International Conference on “Emerging Trends in, Technology Science and Upcoming Research in Computer Science” Organized by DAV Institute of Management, NH-III, NIT, Faridabad. on 25th April, 2015.

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Asst.Professor	Gudlavalleru Engineering College, Gudlavalleru	18-08-2009 to Till date
Asst.Professor	Rajamahendri Institution	2008-2009

PROJECTS GUIDED:

PhD	Post Graduation	Under Graduation
NIL	NIL	NIL

SPECIALIZATION: Applied Mathematics

RESEARCH PAPERS/BOOKS: NIL

BOOKS PUBLISHED IN PUBLICATIONS: 01

Dr. B. Akkayya et.al, published an international book title “Applications of statistics in computer science”, on January, 2023 with ISBN 978-93-5625-584-5.

LIST OF Patent-Publications

1.Application No: 202241039559 A

Date of Filling Application:09/07/2022

Publication Date:15/07/2022

Title of the Invention: DOWN-HOLE FLUID FLOW CONTROL SYSTEM AND METHOD HAVING DYNAMIC RESPONSE TO LOCAL WELL CONDITIONS

2.Application No: 202241021363 A

Date of Filling Application:09/04/2022

Publication Date:22/04/2022

Title of the Invention: A SYSTEM FOR CALCULATING BINOMIAL MATHEMATICAL EXPRESSION AND METHOD THEREOF

RECENTPUBLICATIONS/CONFERENCES:

International/National Journals	International/National Conferences
10	11

1. "Homotopy Analysis to heat transfer of MHD flow over a moving vertical porous plate with suction" in International Journal of Science, Technology & Management (IJSTM) Volume 4, Issue SI(01), (PP 212-221), April 2015, ISSN : 2394-1537.
2. "Homotopy Analysis to Soret and Dufour Effects on Heat and Mass Transfer of a Chemically Reacting Fluid past a Moving Vertical Plate with Viscous Dissipation" *IOSR Journal of Mathematics (IOSR-JM)*, Volume 11, Issue No.6, PP 106-121, e-ISSN:2278-5728, p-ISSN:2319-765X (Nov-Dec2015)
3. "Homotopy Analysis Method to Flow and Heat transform of Visco-Elastic Fluid over Exponentially Stretching Sheet in Porous Medium" International Journal of Computational and Applied Mathematics. ISSN1819-4966 Volume11, Number2(August,2016), pp. 119-128.
4. Homotopy Analysis to Heat and Mass Transfer in a Visco-Elastic Fluid Flow over Exponentially Stretching Sheet through Porous Medium, International Journal of Pharmacy & Technology, December 2017, ISSN 0975- 766X, Vol. 9, PP 31108 – 31119.
5. Homotopy Analysis to Heat Transfer of Visco-Elastic Fluid Flow through Porous Medium over an Exponentially Stretching Sheet with non uniform heat source/sink, Global Journal of Pure and Applied Mathematics, September 2017; ISSN 0973-1768, Vol. 13, Number 9(2017), pp 6467 – 6481.
6. Analytical solution to heat and mass transfer of MHD Flow of Visco-Elastic Fluid over an exponentially stretching sheet through porous medium, International Journal of Pharmacy & Technology, June 2018, ISSN 0975- 766X, Vol. 10, PP31319 – 31334.
7. A Homotopy Analysis Method to Flow and Heat Transfer Characteristics of a Visco-Elastic Fluid through Porous Medium over an Exponentially Stretching Sheet with Viscous Dissipation", International Journal of Mathematics and Computer Applications Research, Volume 8 Issue 5, ISSN (P) : 2249 – 6955, ISSN(E) : 2249- 8060, PP: 1-12, Oct 2018.
8. Numerical Study of Radiative Unsteady MHD Casson Fluid with Heat Transfer in a Liquid Film Over a Stretching surface, Advances in Applied Computational Mechanics. ISSN 2249-4278 Volume 10, Number 1 (2019), pp. 1-14, July 2019.
9. Investigation of the Optical, Thermal, Dielectric, Electrical and Impedence Features of Zinc – Doped Urea – L- Malic Crystals, Physics of Solid state, ISSN 1063-7834, Vol.67, Number 9, pp: 858-866.

10. Influence of couple stress and Cattaneo-Christov heat flux on Jeffrey hybrid nanofluid flow over a moving thin needle with artificial neural network validation, International journal of Ambient energy” ISSN: 0143-0750 (Print) 2162-8246 (Online), Vol. 27, No.1, pp: 1-14.

1. Homotopy Analysis to MHD Flow Past a Stretching Sheet in Porous Medium” in National conference on “*1st A.P. Science Congress*” held in the Dept. Of Physics, S.V.University, Tirupati on 27th January to 29th January, 2016.
2. Homotopy Analysis to MHD Flow of Walter’s Liquid B over an exponentially Stretching Sheet” in International conference on “*60th Congress of Indian Society of Theoretical and Applied Mechanics*”(ISTAM-2015)” held in the Dept. Of Mechanical, Malaviya National Institute of Technology, Jaipur, Rajasthan, India from 16th December to 19th December, 2015.
3. “Homotopy Analysis to heat transfer of MHD flow over a moving vertical porous plate with suction” in International conference on “Emerging Trends in, Technology Science and Upcoming Research in Computer Science” Organized by DAV Institute of Management, NH-III, NIT, Faridabad. on 25th April, 2015.
4. “Numerical Solution to heat transfer in MHD Visco-Elastic fluids” in Nationalconference on “XXIII congress conference of APSMS” held at Vignan University, Guntur, from 12th to 14th December, 2014.
5. “Homotopy Analysis method to MHD Heat Transfer flow over Exponentially stretching sheet Embedded in a Thermally Stratified Medium” in International conference of 61st Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM – 2016), VIT University, Vellore, Tamil Nadu, 11-14 December, 2016.
6. “Homotopy Analysis method to Visco elastic fluid flow over an Exponential stretching sheetthrough porous Medium” in International conference of International Academy of Physical Sciences on Recent Advances in Physical Sciences and Future Challenges, Osmania University, Hyderabad14-16 July, 2017.
7. Homotopy Analysis method to Heat transfer in Visco elastic fluid flow through porous medium over Exponential stretching sheet with radiation National conferenceon “*3rd A.P. ScienceCongress*” held in the Dept. Of Mathematics, Andhra University,21-22 November , 2017.
8. Homotopy Analysis method to Effects of Buoyancy and Heat transfer of Visco elastic fluid flow over an Exponential stretching sheet in National seminar on Theoretical & Applications of Mathematical Sciences,Adikavi Nannaya University, Rajamundry 21-22 December, 2017.
9. Heat transfer in MHD visco-elastic Nano fluid flow over an exponentially stretching sheet on “ International conference on Recent Inventions and Innovations in Mathematical sciencesorganizedbyDepartmentofAppliedmathematics,AndhraUniversity, 28th March to 1st April 2019.
10. Hydromagnetic Flow and Mass Transfer of a Viscoelastic Fluid over an Exponentially Stretching Surface through Porous Media : An analytical Approach, National conference on mathematics, statistics & applications, organized by division of mathematics, Vignan’s Foundation for Science, Technology & Research, Guntur during19-20 July 2019.
11. Exploratory Data analysis with Pandas for Advanced Data Analysis and Visualization on “Seventh International Conference on Advances in Electrical and Computer Technologies 2025(ICAET 2025), is jointly organised by Sengunthar Engineering College(Autonomous), Tiruchengode, Tamilnadu, 24 – 25th July, 2025.

LIST OF WORKSHOPS ORGANIZED: 01

One Day Workshop on “Fuzzy Mathematics in Engineering Control : An Example Oriented Treatise” Conducted by Gudlavalleru Engineering College, Gudlavalleru on 21st February, 2016

LIST OF WORKSHOPS/SEMINARS ATTENDED: 17

1. 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.
2. Attended One Day workshop on “Optimization Techniques and Its Applications” on 13th September, 2014 organized by Dept. of BS&H, Gudlavalleru Engg. College, Gudlavalleru.
3. Attended Two – Week ISTE workshop on “Fluid Mechanics” from 20th to 30th May 2014 organized by IIT, Kharagpur at Gudlavalleru Engineering College, Gudlavalleru as Remote centre. This workshop was held under the National Mission on Education through ICT (MHRD).
4. Attended Two Day workshop on “Recent Trends in Fluid Mechanics and Numerical Techniques” from 19th to 20th January 2014 organized by Dept. of BS&H, Sri Vasavi Institute of Engg. & Technology, Nandamuru, Pedana.
5. Attended Two – Week ISTE workshop on “Signals & Systems” from 2nd to 12th January 2014 organized by IIT, Kharagpur at Gudlavalleru Engineering College, Gudlavalleru as Remote centre. This workshop was held under the National Mission on Education through ICT (MHRD).
6. Participated Tequip Sponsored National Seminar on Applications of ordinary and partial differential equations Organized by Sri Vasavi Engineering College, Ibrahim Bagh, Hyderabad, 28th December 2013.
7. Attended State Level Two Day Workshop on “Applications of Mathematics in Engineering” (Asper JNTUKR13 - Syllabi) from 09th & 10th November 2013 Organized By Gudlavalleru Engineering College, Gudlavalleru.
8. Attended One Week workshop on “Training Teachers for Excellence” from 29th April to 4th May 2013 organized by Dr. B.G. Barki, Former Director, NITTTR, Chennai, Gudlavalleru Engg. College, Gudlavalleru.
9. Attended two day complimentary Training/Orientation on “ Matlab, Simulink & Related Toolboxes for Engineering Education” 3rd and 4th April, 2013 organized by Department of EEE, Gudlavalleru Engineering college, Gudlavalleru.
10. Attended National Conference on “Mathematical and Computational Sciences” from 6th to 7th July 2012 organized by Dept. of Mathematics, Adikavi Nannayya University, Rajahmundry.
11. Attended One Day workshop on “Mathematical Logic and Applications” on 3rd April, 2010 organized by Dept. of Mathematics, V.R. Sidhartha Engineering college .
12. One Day Workshop on “Fuzzy Mathematics in Engineering Control : An Example Oriented Treatise” Conducted by Gudlavalleru Engineering College, Gudlavalleru on 21st February, 2016
13. Two day workshop on “Multivariate Analysis using R-Software” Conducted by Gudlavalleru Engineering College, Gudlavalleru on 12th & 13th November, 2016.
14. “A Five - Day workshop on R-Programming for Statistical Computations”, Part-I, organized by dept. of BS&H, Gudlavalleru Engineering College, Gudlavalleru, 24 – 25

June 2017.

15. Four day workshop on “Numerical Methods with Matlab” (Theory & Hands on Experience) organized by BS&H dept., Gudlavalleru Engineering College, Gudlavalleru, from 25–28 June 2018.
16. One week Faculty Development Programme on “Applied Research on Renewable Energy Sources and Microgrids” held during 18th – 23rd November 2019 organized by the department of Electrical and Electronics Engineering, Gudlavalleru Engineering College, Gudlavalleru.
17. One day Faculty development Programme on “ DESIGN AND ANALYSIS OF EXPERIMENTS” held on 30th August, 2019, organized by Mechanical Engineering, Gudlavalleru Engineering College, Gudlavalleru.

LIST OF WORKSHOPS/SEMINARS ATTENDED THROUGH ONLINE: 08

1. One day national webinar on “ Fluid Dynamics” on 23rd June, 2020, organized by Department of Mathematics & Statistics, School of Basic sciences, Mani pal University, Jaipur.
2. One day national webinar on “**Fascinating World Of Mathematics And Its Applications To Blood Flows**” on 27th June, 2020, organized by Department of Mathematics, Sidhradha college of arts & science, Vijayawada.
3. Online Faculty Development Programme on “NBA” held during 12th May, 2020, organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai.
4. One week National level short time training program on “Matlab for all” held during 4th – 8th June, 2020 organized by the department of Electrical and Electronics Engineering, Visweswarayya institute of Technology, Bangalore.
5. One day national webinar on “**Impact of COVID in Engineering Education & Way forward**” on 9th June, 2020, organized by Indian Society for Technical Education Chapter, Gudlavalleru Engineering College, Gudlavalleru.
6. One day national webinar on “A Systematic Statistical approach for optimal solutions for Industries” on 5th June, 2020, organized by Department of Mathematics, KL University, Vijayawada.
7. Online one week Faculty Development Programme on “Mathematical and Statistical modelling” held during 26th – 30th May 2020 organized by the department of Basic sciences and humanities, Godavari institute of engineering and technology, Rajamahendravaram.
8. Five day online national level faculty development programme on “ Computational mathematics using python” held during 16th to 20th June 2026 organized by the department of Freshman Engineering at Sphoorthy Engineering College, Hyderabad.

CERTIFICATIONS: NIL

INDUSTRIAL TRAINING: NIL

GUEST LECTURES DELIVERED: NIL

MEMBERSHIP IN PROFESSIONAL BODIES: APSMS & ISTAM

CONSULTANCY ACTIVITIES: NIL

GRANTS FETCHED: NIL