

Self Profile

NAME OF THE FACULTY: DR. KUMUD CHANDRA NATH

Designation: Assistant Professor, HOD
Department: Mathematics and Statistics

Personal Information

Date of Birth : 01-07-1968
Gender : Male
Nationality : Indian

Address for Correspondence

Flat No. 1B, Kareng Appartment
Ashok Path, Survey, Beltola, Kamrup (M)
Guwahati-781028

Permanent Address

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Date of Joining in the present service
01-01-2013

Academic Qualification

M.Sc, Ph.D

Teaching Experience

20-07-2001 to 31-12-2012 in Non sanctioned post of Dispur
College and since 01-01-2013 onwards in sanctioned post.

Research Experience

Date of obtaining Ph.D Degree : 01-11-2012 from GU
Title of the Ph.D Thesis :
Certain Aspects of Spectra of Graphs.
Length of research experience : Since 10-03-2008

Research Publications :

- On Singularity of Bicyclic graphs : Asian Journal of Mathematics, ISSN 0973-5240, Vol 4, July-Dec (2010), pp 71-83.
- Graphs with zero determinant and construction of graphs with zero determinant : International Journal of Mathematical Sciences and Engineering Applications, ISSN 0973-9424, Vol 4, No. 1, 2010, pp 229-236.
- On the energy of Unicyclic graphs : International Journal of Mathematics Research, ISSN 0976-5840, Vol 4, No. 2, 2012, pp 115-124.
- Judicial activism : Right to information and Public interest litigation : Book Chapter in Abhignan, edited by Dr. Riju Hazarika and published by HRDC, GU in 2015.
- Modified KdV Solitons on dust ion acoustic solitary waves in a warm plasma with electrons' drift motion : Advances and Applications in Fluid Mechanics, ISSN 0973-4686, Vol 19, No. 3, 2016, pp 541-553.
- Trends in study of algebraic graph theory and some open problems : Bok Chapter in Emerging trends in science and technology, edited by Prof. P. J. Handique and Prof. J. C. Kalita, published by HRDC, GU in 2017.
- Modified KdV Solitons on dust ion acoustic solitary waves in a warm plasma with electrons' drift motion : Advances and Applications in Fluid Mechanics, ISSN 0973-4686, Vol 19, No. 3, 2016, pp 541-553.
- A brief review on tumour-immune-drug interactions in mathematical models : Journal of Critical Reviews, Vol 7, No. 17, 2020, pp 2722-2735, doi : 10.31838/jcr.07.17.338.

Activities - Year 2013:

Supervising EVS fieldwork survey of B.Com 3rd Sem Students, Performing counting officer duty in students' union election, in-charge of Gymnasium. Taking training for performing 3 days election duty and performing presiding officer duty. Member of editorial board of the departmental journal-"Banijya Prabah". Participating in National Seminar.

Activities - Year 2014:

Assistant Officer In-Charge for smooth conduction of all types of examinations. Appointed as Head Examiner on UG Level examination and undertake various confidential work.

Activities - Year 2015:

Completed successfully Orientation Programme - HRDC, Gauhati University- 28 days-20th November 2015 to 19th December 2015. Participating in State Level Workshop, Taking classes in three different High School as per allotment of Govt,; Participating in international conference of frontier of mathematics 2015.

Activities - Year 2016:

Student related co-curricular, extension and field based activities. Research paper published - MODIFIED KORTEWEG-DE VRIES SOLUTIONS ON DUST ION ACOUSTIC SOLITARY WAVES IN A WARM PLASMA WITH ELECTRONS' DRIFT MOTION Page No.- 541-553; Advances and Applications in Fluid Mechanics Volume 19, Number 3, 2016; ISSN 0973-4686 (Indexed in Scopus)

Activities - Year 2017:

Completed UGC Sponsored Refresher course in Emerging Trends in Science and Technology; HRDC, Gauhati University on 25th October, 2017 to 14th November, 2017 = 21 days
Appointed as Observer for UGC NET EXAM; Examiner and Head examiner of UG. Participating in National Seminar. Participating in State Level Workshop,
Published research paper - Trends in study of Algebraicgraph Theory and some open problems Page no-46-48; Emerging trends in science and technology.ISBN 978-81-9255-63-6
