

KUSUMBAR BAISHYA

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(A) Award of M.Phil Degree: Awarded with M.Phil degree from Vinayaka Missions University Salem, Tamilnadu in 2009.

(B) Organised National Webinar: Organised a National Webinar as Coordinator -
"Social Entrepreneurship in a knowledge economy: A new perspective:" on 15th July 2020.

(C) Participation in Orientation/Refresher Course :

- (i) Participated in Orientation Programme in UGC HRDC AMU, held from 27th Feb-27th March 2015
- (ii) Participated in Refresher Programme on Mathematics & Statics in UGC HRDC GU, held from 19th December 2018 to 8th January 2019.
- (iii) Participated in Refresher Programme on Basic Sciences in UGC HRDC Guru Nanak Dev University, held from 22nd Sept. to 5th Oct 2020.
- (iv) Participated in Refresher Programme on ICT and Computer Applications in UGC HRDC AMU, held from 17th Feb. to 01 March 2024.

(D) Book Publication

Title of the Book	ISBN	Year of publication	Publisher
"Ordinary Differential Equations" (Sole Author)	978-93-6078-542-0	2024	Ashok Publication
"Sampratik Asomiya Bhasa-Sahitya Chinta" (Co-Editor)	--	2020	Published by Assam Sahitya Sabha 75 th Sualkuchi session

(E) PUBLICATIONS:

E.1 Journal Publication:

Sl. No	Title	Journal	National/International	Year	ISSN/ISBN	Impact Factor
1	"Mathematics: Its Impact and Value"	"Aryabhata" Vol-1	National	2014	2395-0714 (ISSN)	
2	"Computer Network Congestion and use of Fuzzy Logic"	"Confluence" Vol-1, No-1 2014	National	2014	2454-1168 (ISSN)	
3	"Globalization and its Impact on the Muga Industry of	"The Golden Threads" Proc. National Seminar,	National	2015	978-9381-069-95-0 (ISBN)	

	Assam” 35-37	UGC,2015				
4	“Logistic Map And Probability Density Function” 26-30	Hexagon Vol-2, No-2 2016	National	2016	2454-3810 (ISSN)	
5	“Effect of Pesticides on certain Nitrogen Fixing Rice-Field Blue-green Algae”, 57-61	“ Alternative Approach in Agriculture” Proc., National Seminar, UGC ,2017	National	2017	978-81-92955-55-1 (ISBN)	
6	“Importance of Mathematics on other Disciplines” 22-24	Hexagon , Vol-04, No-04, 2018	National	2018	2454-3810 (ISSN)	
7	“Need of Environmental Education for Preserving the Environmental Degradation”	Hexagon , Vol-05	National	2019	2454-3810 (ISSN)	
8	Feigenbaum Universality and Period Doubling Bifurcation in one Dimensional Population Model	Hexagon, Vol-06	National	2020	2454-3810 (ISSN)	
9	“Determination of Periodic Orbits with Bifurcation Values, Time Series Analysis and Lyapunov Exponents on Two Dimensional Discrete System”	Hexagon, Vol-07	National	2021	2454-3810 (ISSN)	
10	FDI Inflow In Select Sectors: A Periodic Insight	Confluence	National	2021	2454-1168	
11	“Fibonacci number: Its Influence in Visual Design and plant Kingdom”	IJEP(UGC Care Group-II)	International	2023	1307-1637	6.865
12	“On the	JME(UGC Care	National	2023	2229-5348	6.257

	Stability of Periodic Doubling Bifurcation and Existence of Chaos in Nonlinear Discrete System”	Group-I)				
13	“ Indian Mathematicians And Their Contributions: A Study”	JuniKhyat(UGC Care Group-I)	National	2024	2278-4632	6.625
14	“Pedagogical Content Knowledge Towards Technological Approach In Mathematics Classroom”	Educational Administration: Theory and Practice	International	2024	2148-2403	Scopus

E.2 Book Chapter Publication

Sl. No	Title	Book Name	National/International	Year	ISSN/ISBN	Publisher
1	Status of Women	Nari-Xusama	National	2021	978-93-84846-73-2	Ashok Book Stall

F. Participation in FDP/Conference/Seminar/Workshop

1	Participated in the National Seminar on “ Old Assamese Language and Assamese Script”	27 th April, 2013	Srimanta Sankardeva Sachetan Mancha & SBMS College
2	Participated in the National Seminar on “ Phenomenon of Witch-Hunting In The North-East: A Major Challenge To Women”	27-28 th September, 2013	Women Cell, SBMS College, Sualkuchi
3	Participated in the Workshop on “Performance Based Appraisal System Based on Academic Performance Indicators(API) for CAS promotion of College Teachers	27 th June, 2014	SBMS College & ACTA Kamrup ‘B’ Zone
4	Participated in the National Level Workshop on “Rashtriya Ucharar Shiksha Abhiyan(RUSA): Its Implications in the North East Region “	30 th June, 2014	ACTA
5	Participated in the National Workshop on “The General Relativity and Astronomy-Its Foundations and current trends”	28-30 th January, 2015	Tinsukia College
6	Participated In the National seminar On “ Cultural Heritage of Assam”	23-25 th April , 2015	Department of Anthropology, GU
7	Participated as Resource Person in the	7-16 th July, 2015	Shankardev Shishu

	Educational Summer Workshop on “ Ganitor Moja Lou Aaha”		Vidya Niketan
8	FDP on “Skill-Based Programmes In Higher Education As Per NSQF Structure”	28-29 th Nov, 2015	XIMIT,Ghy
9	Participated in the National Workshop on “Research Methodology in Social Sciences”	9-10 th August, 2016	M K College, Chenga
10	Workshop on “Devolving Synergy Between Information Communications Technology & Academics	25-31 March, 2017	M. G. Govt. P.G. College, Haldwani
11	Participated in Teacher Training Workshop on “ E-Learning Challenges And Opportunities”	3 rd May, 2017	Regional Government Film and TV Institute, Assam
12	Master Trainer Training(MMT) Programme on “Soft Skills”	27 th August-2 nd September, 2018	SBMS College, Sualkuchi & Orion Education
13	FDP on “ Use of ICT Tools for Classroom Teaching”	1-7 th October, 2018	E& ICT Academy IIT Guwahati
14	“Matlab Workshop”	28-29 th Sept, 2019	Deptt. Of Chemical Engineering, IIT,Ghy
15	“Mathematica Training Programme”	14-16 th Nov, 2019	Deptt. Of Mathematics, Arya Vidyapeeth College
16	Workshop on UG-Choice Based Credit System”	16 th May, 2019	SBMS College, Sualkuchi
17	FDP on “ Teaching Techniques with Gamification”	26-28 th Feb., 2020	ICT Academy
18	FDP on “Communication Skills”	22-26 th June,2020	ICT Academy
19	FDP on “ Discrete Mathematics, Graph Theory And It’s Applications”	17-21 st August, 2020	Deptt. Of Applied Sciences & Humanities, Universal Engineering College, Vallivattom
20	Online Workshop on” Use Of ICT Tools for Effective Teaching”	21-22 May, 2021	TLC Tezpur University
21	FDP on “ Recent Techniques for the Solutions of Nonlinear Differential Equations”	23-28 th August, 2021	Jaypee Institute of Information Technology, Noida, UP
22	Participated in the National Level Lecture Series on “Numerous Applications of Number Theory and Algebra”	21-22 January, 2022	G H Rasoni College of Engineering, Nagpur.
23	TEW on Differential Equations and Mathematical Modelling	14-27 th Feb, 2022	Jaypee Institute of Information Technology, Noida, UP
24	Professional Development Programme On” Digital Literacy”	26-30 th April, 2022	SBMS College & ICT Academy(An initiative of Govt. of India)
25	Participated in the International Seminar On “ Contributions of Sankaradeva and other Contemporary Vaishanava Saints of India to Mankind”	3 rd Dec, 2022	Sri Sankaradeva Sanskriti Samaj (Puri Prakalpa)
26	FDP on “Digital Teaching Techniques(Advance	7-11 Feb, 2023	ICT Academy

	Level)		
27	Certificate Course on Digital Teaching Techniques	21-27 th Feb, 2023	ICT Academy
28	FDP On" NEP-2020: Highlights And Implementations of FYUGP"	10-16 th June 2023	Narangi Anchalik Mahavidyalaya in association with MANAN
29	FDP On "Presentation & Communication Skills"	26-30 th Dec, 2023	SBMS College & ICT Academy
30	NEP 2020 Orientation & Sensitization Programme	05-15 th Feb. 2024	Under Malaviya Missions Teacher Training Centre , UGC, Doctor Harisingh Gour Vishwavidyalaya,MP

G. Paper Presented In National/ International Seminar

Sl. No	Name of Seminar	Type of Participation	Title of Paper	Level	Organised by	Date
1	"Environment and Civil Society: Issues, Problems, And Remedies"	Paper Presented	"Global Warming and its Impact on Human Life	National	S.B.Deorah College	29-30 August, 2014
2	"Empowerment of Women In Kamrup District of Assam In Socio-Economic Perspectives"	Paper Presented	"Role of SHG in Socio-Economic Empowerment of Rural Women in Kamrup District of Assam	National	Rangia College	20-21, Dec,2014
3	"Society and Women Empowerment"	Paper Presented	"Need of Empowerment of Rural Women in India"	National	Rangia College	21-22 January , 2015
4	"Future of Muga And Pat Industry in Sualkuchi Area of Assam"	Paper Presented	"Globalisation and its Impact on the Muga(Golden thread) Industry of Assam	National	SBMS College	29-30 th April, 2015
5	"Alternative Approaches in Agriculture for Sustainable Environment and Human Health"	Paper Presented	"Effect of Pesticides on certain Nitrogen fixing Rice-Field Blue-Green Algae"	National	SBMS College	24-25 June,2016
6	"International Conference on Nonlinear Analysis and Applications(ICNAA-2022)"	Paper Presented	"On the Stability of Period Doubling Bifurcations and the Existence of Chaos in Nonlinear Discrete System"	International	Assam Don Bosco University	22-23 rd Nov, 2023
7	"National	Paper	"Period Doubling	National	Dayananda	11-12 th

	Conference on Computational Methods in applied Science and Engineering”	Presented	Bifurcation and Stability Analysis in a Nonlinear Dynamical System”		Sagar College of Engineering, Bangalore	Dec, 2023
8	“International Conference on Mathematics and Application in Science, Technology and Society-2024(ICMASTS-2024)	Paper Presented	“Stability Analysis on Feigenbaum Universality, Time Series and Lyapunov Exponents in nonlinear Discrete Systems”	International	Assam Don Bosco University	9-10 th May, 2024

H. Participation in National/International Webinar, Web-Conference

- 1) Participated in webinar on “**Awareness Programme on Use of Online E-Recourses**” organised by Central Library, SBMS College, Sualkuchi, on 25th June, 2020
- 2) Participated in the International Web-Conference on “**Complex Analysis and Differential Geometry: Revisiting (IWCADGR-2020)**” organised by Department of Mathematics, SKBU, on June 29-30, 2020
- 3) Participated in the National webinar on “**Mathematical & statistical Modeling of Infectious Diseases Relevant To Covid-19**” organised by Department of Mathematics, Assam University, Silchar on 8th July , 2020
- 4) Participated in the International Web-Conference on “**Recent Advances in Science (IWCRAS 2020)**” organised by Don Bosco College, Tura on 30-31st July, 2020
- 5) Participated in the National Webinar on “**Wonderful Mathematics in the Natural world and Application to Human Anatomy**” organised by Department of Mathematics, Narangi Anchalik Mahavidyalaya , on 1st August 2020
- 6) Participated in the National webinar on “**Fuzzy Sets and their Applications**” organised by Department of Mathematics, Jawaharlal Nehru College on 5th August 2020
- 7) Participated in the Two-Day National webinar on “**Recent Development In Mathematics & Its Social Impact**” organised by Department of Mathematics, Sukumar Sengupta Mahavidyalaya on 8-9th August 2020
- 8) Participated in the two-Day International webinar on “**Fighting Covid-19 through Mathematical Way**” organised by Department of Mathematics, Acharya Jagadish Chandra Bose College, Kolkata on 9-10th August 2020
- 9) Participated in the International webinar on “**Mathematical Applications in Human Cognition and Neuroscience**” organised by Department of Mathematics, Assam Don Bosco University on 16th September, 2020
- 10) Participated in the National webinar on “**Latex-Its Importance and Application**” organised by Department of Mathematics, Suren Das College

I. Extension Activities

- a. Engagement as External Evaluator for **Gunotsav-2018**, Round-II, Phase-I, (09/11/2018 to 11/11/2018)
- b. Engagement as External Evaluator for **Gunotsav-2022**, Round-III, Phase-II, (24/05/2022 to 26/05/2022)
- c. Engagement as External Evaluator for **Gunotsav-2022**, Round-III, Phase-III, (02/06/2022 to 04/06/2022)
- d. Engagement as External Evaluator for **Gunotsav-2023**, Round-IV, Phase-I, (19/01/2023 to 21/01/2023)
- e. Engagement as External Evaluator for **Gunotsav-2024**, Round-V, Phase-I, (04/01/2024 to 06/01/2024)
- f. Engagement as Participant in the 3-days' **Yuva Shakti Facilitator Training Programme**, organised by District Administration, Kamrup District, (04/01/2021 to 09/01/2021)

J. Members to Committee/ Organisation

- i) Life Member, ASSAM Academy of Mathematics
- ii) Life Member, Assam Science Society
- iii) Life Member, Assam Shahitya Sabha
- iv) Life Member, Physics Academy of the North-East
- v) Member Editorial Board, "Hexagon"
- vi) Member Editorial board, " IRJMEIT"