

CURRICULUM VITAE

Name of the Employee : Dr. Bh. PADMA

Designation : Professor

Qualification : M. Tech, Ph. D (CSE)

Date of Birth : 05/01/1972

Year of Joining : 22/08/2005

Experience (Total) : Teaching – 19 years, Industry – 2.4 years

Specialization : Cryptography and Network Security

Thesis : Obtained in Aug 2019 from GITAM University in the domain of Mobile Authentication.



I am an experienced and self-motivated academican serving as a Professor in the Department of CSE. I have been working in the institution for 20 years and demonstrated a commitment to excellence in teaching, research, and service. In addition to my academic qualifications, I actively participated in departmental committees, curriculum development initiatives. I also have experience in the industry for 2 years.

I have published **5 Book Chapters which are Scopus Indexed (Three Books chapters are selected and yet to be published), 24 Research papers** in various journals and conference proceedings. I have published one Book titled: “**Blockchain+AI: Technologies, Frameworks and Real-world Applications**” in 2025 August. Among all my publications, **7 research articles are Scopus Indexed. I achieved Certified Security Associate 2.0 Certification in Jan 2026 from Cyberwalnet.** I have continued my research endeavors even after my Ph.D. and published 6 research publication during the last 5 years. To stay up-to-date on emerging technologies and enhance my skills, I have undertaken two NPTEL Courses and participated in Many FDPs and Workshops. I have been vigorously engaged in Academic Audits, NAAC Criteria Works, and BOS from the inception. Prior to my present role as IQAC Coordinator, I have consistently demonstrated excellence in administrative services.

Experience:

S.no	Name of the Organization	Designation	Exp.(years)	Duration
1	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Professor	1.5	Jan 2 nd , 2025 – till now
2	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Associate Professor	4	Dec 2019-Jan 1 st , 2025

3	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Sr. Asst Professor	0.6	Apr 2019-Nov 2019
4	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Sr. Asst Professor	2.3	Nov 2016-Mar 2019
5	Gayatri Vidya Parishad, Dept of MCA, Rushikonda, VSP.	Assistant Professor	9.4	Aug 2005-Oct 2016 (lien from 2007 Oct - 2009 Jul)
6	Satyam Info way, Chennai	Software Developer	1	Sept 2000 - Nov 2001
7	Net Decisions (P) LTD, VSP	Software Engineer	0.9	Nov 1999 - Aug 2000
8	GITAM, VSP	Programmer cum Teaching Assistant	0.9	Dec 1998 - Oct 1999
9	Enigma Consultancy Services, Bangalore	Multimedia Programmer	0.5	Nov 1997 -Mar 1998

Thesis Awarded:

Awarded Doctorate in CSE from GITAM in Aug 2019 under the guidance of Prof G.V.S. Rajkumar, Dept. of CSE, and GITAM. Title of the Thesis: **“DESIGN AND ANALYSIS OF AN ELLIPTIC CURVE BASED PATTERN AUTHENTICATION SYSTEM RESISTANT TO PRE-COMPUTATION ATTACKS”**.

Research Guidance: 2 Students

- Registered as **Research Guide from Andhra University** in the month of December 2022, and allotted one Research Scholar Mrs. D. Deepthi in the month of March, 2023.
- Mr K Sankar Sastry , GVPCDPGCA(A), enrolled from Gunupur University.

Awards:

Obtained a letter of Appreciation from the institution, for the Academic Contribution during the year 2022-23.

Book Chapters Published:

1. Published a Book Chapter titled **“Cyber Systems and Security in Industry 4.0”**, Published in December 24th, 2021 by CRC Press, Taylor and Francis Group, ISBN: 9781003146711, <https://doi.org/10.1201/9781003146711> (**SCOPUS**).

2. Published a Book Chapter titled **“Smart Grid communication and information technologies for cyber security, data privacy, and policy issues”**, Chapter-1, 1st April, 2022, Book: Deebak-SNS-1633103, ISBN: 978-0-323-85626-3, Elsevier Publishers. (**SCOPUS**) <https://doi.org/10.1016/B978-0-323-85626-3.00008-9>.

3. Optimization of Nerve Segmentation Performance using U-Net Architecture and Aquila in medical imaging. (Selected for **Scopus** - to be published).
4. Ensemble – based classification and prediction of divergent Gene variant interpretations using boosting and modern machine learning techniques. (selected for **Scopus** - to be published).
5. Performance comparison of neural network and transform – based deep models in classification of age related health conditions. (selected for **Scopus** - to be published).

Books Published:

One Book titled “Blockchain+AI: Technologies, Frameworks and Realworld Applications in 2025.

Administration:

- Presently holding the role of IQAC Coordinator of Gayatri Vidya Parishad College for Degree and PG Courses from July, 2021.
- Coordinator of BoS & Coordinator of Academic Audit, Dept. of CSE, GVPCDPGC (A).
- I have been vigorously engaged in Academic Audits, NAAC Criteria Works, and BOS from the inception. Prior to my present role as IQAC Coordinator, I have consistently demonstrated excellence in administrative services and played a key role in achieving NAAC Grade ‘A’ for the institution.

Research Papers /Proceedings Published:

Sl. No	Title of the Paper	Publication Details
1	“Implementation of Optimizing point Multiplication in Elliptic Curve Cryptography using Binary Method”	JCS, Sep-Oct 2010, vol-4, issue: 6
2	“Encoding and Decoding of a message in the implementation of Elliptic Curve Cryptography using Koblitz’ Method”	IJCSE, vol-2 Issue: 5, 2010
3	“A simple message-Encryption scheme based on Amino-acid Protein sequence”	17 th -18 th April 2011 Proceedings of NSTRBT
4	“Selecting a plaintext in Rabin Cryptosystems using Padding generated by Pseudorandom-Generators”.	January 2012, The IUP Journal of Publications
5	“Addition-Subtraction Method For Scalar-Multiplication in the Implementation of Elliptic Curve Cryptography”	24 th , 25 th March 2012, Proceedings of NSPPTM.
6	“Performance evaluation of new symmetric key algorithm using AES”	24 th , 25 th March 2012 Proceedings of NSPPTM

7	"Efficient Computation of Point Multiplication in the Implementation of Elliptic Curve Cryptography"	23 rd ,24 th March 2014, Proceedings of NCETCS'14.
8	"Efficient Computation of Point Multiplication in the Implementation of Elliptic Curve Cryptography"	STM Journals, Vol 1 No 1, 2014.
9	"A Review on Android Mobile Password Locks and Security Issues"	ICRTRICSE-2K15, 2nd -3rd, May 2015.
10	"A Review on Android Authentication System Vulnerabilities. International Journal of Modern Trends in engineering Research".	IJMTER, Volume-3, Issue-8, pp: 118-123. ISSN: 2349-9745. 2016.
11	"Design and Analysis of an Enhanced SHA-1 Hash Generation Scheme for Android Mobile Computers. "- Indexed in SCOPUS	IJAER, Volume 11, Number 4 pp 2359-2363. 2016. ISSN: 0973-4562.
12	"Dynamic salt generation for mobile data security using elliptic curves against pre-Computation attacks".	IJIM, Vol. 2, Nos. 3/4, pp 179-194. ISSN: 2055-6047. 2017.
13	"A Novel Approach to Thwart Security Attacks on Mobile Pattern Authentication Systems".	IJCNIS, Vol 10, NO 5, pages: 18-27. 2018. ISSN: 2074-9104.
14	"Preventing Security Attacks on Mobile Pattern Passwords"- Indexed in SCOPUS	JATIT, Vol.96. No-4. ISSN: 1817-3195, 2018.
15	"An Identity based Secure Pattern Authentication System" - Indexed in SCOPUS	IJRTE, Vol-8, Issue-1, May 2019.
16	"Insurance Approval Analysis using Machine Learning Algorithms"	IJCSE, Vol 8, Issue 12, Dec 2020.
17	"Presented a paper titled "DNA Based Pattern Representation for Mobile Security" in the International Conference CHSN 2020."	Abstract Published in Proceeding of CHSN-2020, JNTU Kakinada, December 28 th - 29 th 2020.
18	"Presented a paper titled "Defense Against Frequency Analysis in Elliptic Curve Cryptography Using K-Means Clustering" in the International Conference ICCIS-2021. SCOPUS Indexed.	Published in IEEE Xplore "2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)", 2021, pp. 64- 69, doi: 10.1109/ICCCIS51004.2021.9397065.: 12 th April 2021.
19	"DNA BASED PATTERN REPRESENTATION FOR MOBILE SECURITY"	Advances and Applications in Mathematical Sciences Volume 20, Issue 12, 2021, Pages 3157-3167 © 2021, Mili Publications.
20	"A New Authentication RSA Homomorphic Encryption Technique for Prime Factorization- Based Attacks Scheme using Brahmagupta Fibonacci Identity for Cloud data security "-(SCOPUS)	International Conference on Recent Advances in Industry 4.0 Technologies (ICRAIT 2022). 14-16 September, 2022.
21	"A Survey on Modern Cryptographic Techniques and Applications"	NCDT 2023, AU, Visakhapatnam, Proceedings published online.
22	Fake Product identification using Blockchain Technology	Journal of Production Research & Managem ISSN:2249-4766, Volume 14, Issue 2, 2024, August, doi: 37591/JoPRM.

23	AI-Driven 3D Blueprint Generator for Personalized Product Design	Presented Paper at ICRRCE-2025, 12 th April at Bangalore, Rajarajeswari College of Engineering.
24	Optimizing Hash-to-Curve Implementation using Simplified SWU in elliptic curve Cryptography for Blockchain Security”	Presented paper in the Springer conference SCI-2026 on 29 th April, 2026.

Webinars / Seminars /FDPs Arranged:

Sl. No	Type of the Program	Name of the Conference/Symposium	Date	Resource Person
1	WEBINAR	Blockchain Technology	27th Jan,2021	Dr. N. Rukma Rekha of University of HYD
2	WEBINAR	Trends in cyber Security	7 th April,2022	Prof A.S.N. Chakravarthy, JNTUK.
3	FDP (Co-Convener)	Cyber Security and Digital Forensics- Challenges and Trends	24 th July, 2023 to 28 th July 2023.	Prof. D Lalitha Bhaskari, Prof P Prapoorna Roja, Prof P.V Lakshmi, Prof V Nagalakshmi, Prof IS Pallavi, Dr N Rukma Rekha, Mr B Samuel Neelam
4	5-Day online Faculty Development Program Sponsored by NAAC	Outcome Based Education	16 th – 20 th Oct, 2023	Dr. B.V. Apparao, Prof. K Chandrabhushana Rao, Mrs. Chethana Harika
5	Organized a 10-day SDP	“Office Etiquette for better Public relations”	14 th to 18 th May, 2024.	Mr Raghu Pulaparthi, Mr Aswin Patel
6	A 2-day faculty workshop	“Guidelines for expert team visit”	16 th – 17 th September,2024	Dr N Jayasankaran
7	Faculty Orientation Program	“NAAC’s Quantitative Metrics- Ensuring Data Quality and Maturity”	9 th – 10 th Aug, 2024	MR Sabeen Goving
8	A 2-day faculty workshop	“NAAC Accreditation Process”	20 th -21 st July, 2024.	Dr N Jayasankaran

Seminars attended / conferences organized :

Sl. No	Name of the Seminar	Date	Role (Organized / Participation)
1	Bioinformatics and speech Recognition	21-7-2008 to 26-7-2008	Participation
2	Embedded Systems	31-7-2008 to 2-8-2-8	Participation
3	The Impact of Quality Assessment in Higher Education	20-9-2009	Participation
4	Staff Development Programme on "Network Security and Applications"	5-2-2010 to 18-2-2010	Participation
5	"Translational Research in Bioinformatics and T2DM"	17-4-2011 to 18-4-2011	Organizing member & presentation
6	National Seminar on "Privacy Preserving & Trust Management"	24-3-2012 to 25-3-2012	Organizing member & presentation
7	National Seminar on Cloud Computing	7-9-2012 to 8-9-2012	Participation
8	ISCF-2013, GITAM, VSP	3 rd - 5 th 2013	Participation
9	Emerging Technologies in Computer Science 2014 (NCETCS'14)	28-3-2014 to 29-3-2014	Participation
10	A review on Android Mobile Password Locks and Security Issues	2 nd and 3 rd 2 May 2015	Presentation
11	One-week FDP on "MATLAB and LATEX	5 th - 9 th December, 2016.	Participation
12	Quality Research Writing and Research Impact Measures	4 th Jan 2016	Participation
13	"Three Day Workshop on "IOT Applications"	5 th July 2018.	Participation
14	AICTE Training and Learning (ATAL) Academy Online FDP on "Blockchain",JNTUA College of Engg, Pulivendula.	20-04-2020 to 24-04-2020	Participation
15	Universal Human Values and Professional Ethics, organised by Chebrolu Engg.. College	May 13 th - 17 th , 2020.	Participation
16	One-week FDP on AI, Santhiram Engg College, Anantpuram.	May 13 th - 18 th , 2020.	Participation
17	5-day online FDP conducted by Department of CSE, GVPCDPGC in in collaboration with BRAIN O VISION on "Artificial Intelligence"	22 nd to 26 th May, 2020	Organization and Participation
18	Python Workshop, Brain-O-Vision Solutions.	15 th – 28 th , June 2020	Participation
19	ATAL Academy Online FDP on "Cyber Security"	2020-9-8 to 2020-9-12	Participation
20	A webinar on "Personal Financial Management"	20 th May 2020 (5:00 pm - 6:30 pm) by ICT Academy.	Participation

21	A 5-day webinar series on “Season 5 of Sky Campus on the theme The Future of Skills - Education, Employment & Entrepreneurship”.	11 th - 15 th May 2020	Participation
22	A webinar on “Outcome Based Education Software”	28th May 2020	Participation
23	A webinar on “School Education-Post Pandemic Challenges, a way Forward”	16th May 2020	Participation
24	FDP on “Cyber Security”	8 th Feb 2021 – 14 th Feb 2021	E&ICT Academy, IIT Kanpur.
25	FDP on Blockchain Technology	17 th -21 st May, 2021	NITTTR, Chandigarh.
26	National Level Workshop on NIRF Indian Rankings-2022	5 th , 6 th Jan,2022	Institute of Academic Excellence, Hyderabad
27	5-Day online International Faculty Development Program on Data Analyst	19 th June 2023 to 23 rd June , 2023	Organized by APSSDC, ExcelR
28	ATAL FDP on Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques and Best Practices.	16/12/2024 to 21/12/2024.	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN
29	Generative AI Fluency at NASSCOM	27-10-2025 to 01-11-2025	NASSCOM

Patents Published:

- Published a patent titled “Next Generation Li-fi communication Systems with AI – Powered Data Encryption” in July 2025.
- Real-time Collaborative Desktop IDE using Local –First Architecture and Cloud signaling, published on 10th April, 2026.

Certifications:

Sl. No	Name of the Certification	Duration
1	Cyberwalnet	Certified Security Associate 2.0, Jan,2026
2	NPTEL	Foundations of Cloud Edge, IoT and ML, Feb-Apr, 2025-Elite
3	NPTEL	Introduction to Internet of Things, Jan-Apr 2021.(12 weeks) – Elite
4	NPTEL	Cloud Computing (12 weeks, Jan-Apr, 2024.) – Elite Silver
5	COURSERA	Block chain, Dec 22 nd , 2020
6	COURSERA	Software Development Processes and Methodologies, April 10 th ,2022
7	COURSERA	Data Manipulation and Business Analysis using Spreadsheets, April 9 th 2022.

7	Microsoft Technology Associate certification	March 18 th 2017.
8	Certified Security Associate 2.0	From Cyberwalnet in 2026 Jan.

Memberships and Journal Reviewer:

1. Sub-Reviewer of “An online conference Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2020)” held during 28th-29th Dec, 2020.
2. Life member of IAEPT.

Contact Details:

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