



Dr Bhawna Sinha

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Address: Patna, Bihar, India - 800001

Expertise

Computer Science Software Engineering & Applications

Head of the Department,
Department of MCA,
Patna Women's College
Bailey Road, Patna

Work Experience

1. Patna Women's College 1997 — Present

Assistant Professor,
Department of Computer Applications (MCA),
Patna Women's College

Education

1. **Ph. D.** 2016
Babasaheb Bhimrao Ambedkar Bihar University
 2. **MCA** 2008
Sikkim Manipal University
 3. **MBA** 2000
Symbiosis Centre for Management Studies
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Honours and Awards

1. **Best Researcher Award (Computer Science & ICT) - 2020**
Patna Women's College
2. **Best Digital Educator Award - 2020**
Patna Women's College
3. **Mother Teresa Excellence Award - 2017**
India International Friendship Society
4. **Exemplary Teacher Award - 2015**
Patna Women's College
5. **Active Participation (Women) Patna Chapter Region II - 2015**
Computer Society of India

Membership in Professional Bodies

1. **Computer Society of India, 2013**
Life Membership

Membership In Committees

1. **Research and Development Cell, Patna Women's College, 2018**
Research Coordinator
2. **Internal Quality Assurance Cell, Patna Women's College, 2011**
IQAC Member

Publication (National and International Journals)

1. Augmented Reality: A tool for Interactive Learning Environment

Bhawna Sinha, Shiv Sahay

SSRN Electronic Journal,

Online ISSN: 1556-5068

[DOI: 10.2139/ssrn.4066684](https://doi.org/10.2139/ssrn.4066684)

Year 2022

2. Augmented Reality in Education and Learning

Bhawna Sinha, Ajit Singh

Explore Journal of Research,

Volume Vol XIV No. 2, ISSN 2278-0297 (Print), 2278-6414 (Online)

<https://patnawomenscollege.in/augmented-reality-in-education-and-learning/>

Year 2022

3. Empowering IoT through Improving Technology

Bhawna Sinha, Braj Kishor Prasad

MOL2NET'22, Conference on Molecular, Biomedical & Computational Sciences and Engineering, 8th ed. congress USEDAT-08,

<https://doi.org/10.3390/mol2net-08-12633>

Year 2022

4. Real Time Face Mask Detection Using Machine Learning

Bhawna Sinha, Madhu Madhvi, Akansha Priya, Bhavprita

Explore Journal of Research, Volume Vol XIII No. 2,

https://content.patnawomenscollege.in/Explore-vol-XIII/Details/MCAdes1_compressed.pdf

Year 2021

5. Applications of Microwave Remote Sensing of Soil Moisture for Water Resources and Agriculture

Bhawna Sinha, Shiv Shanker Sahay

SSRN Electronic Journal,

Online ISSN: 1556-5068

<https://dx.doi.org/10.2139/ssrn.3710154>

Year 2020

6. Li-Fi: A Framework for Future IT Environment

Bhawna Sinha, S. S. Sahay, Vinay Choudhary

Journal of Shanghai Jiaotong University,

Volume Vol 16, Issue 9, Pp 524-532

[DOI: https://shjtdxxb-e.cn/wp-content/uploads/2020/09/JSJ.U-2614.55-F.pdf](https://shjtdxxb-e.cn/wp-content/uploads/2020/09/JSJ.U-2614.55-F.pdf)

Year 2020

7. Post-COVID Challenges and Opportunities in the Education Sector

Bhawna Sinha

SSRN Electronic Journal,

Online ISSN: 1556-5068

<https://dx.doi.org/10.2139/ssrn.3710846>

Year 2020

12. Role of Augmented Reality Application in Higher Education Learning

Bhawna Sinha, Shiv Sahay

Aegaeum Journal UGC-CARE Approved (Group-II) Multidisciplinary Journal,

Volume Vol 8 Issue 10, Pages 926-937

<https://aegaeum.com/index.php/volume-8-issue-10-2020/>

Year 2020

13. A study on DDoS Attacks, Danger, and Its Prevention

Bhawna Sinha, Sushmita Chakraborty, Praveen Kumar

International Journal of Research and Analytical Reviews (IJRAR),

Volume 6, Issue 2, Pp 10-15

https://www.researchgate.net/publication/335757374_A_STUDY_ON_DDOS_ATTACKS_DANGER_AND_ITS_PREVENTION

Year 2019

14. Fuzzy Logic and Network Intrusion Detection System

Bhawna Sinha, S. S. Sahay, B. K. Prasad

International Journal of Development Research,

Volume 7(2), Pages 211-215

<http://doi.one/10.1729/Journal.22718>

Year 2019

15. E-Content: An effective tool for Blended Learning

Bhawna Sinha, S. S. Sahay

International Journal of Scientific & Engineering Research IJSER,

Volume 8, Issue 1

https://www.researchgate.net/publication/330650968_e-Content_An_Effective_Tool_For_Blended_Learning#fullTextFileContent

Year 2018

12. MOOC (Massive Open Online Courses): The New Trend of Education

Bhawna Sinha

Explore Journal of Research, Volume X, ISSN 2278-0297 (Print), 2278-6414 (Online)

<https://patnawomenscollege.in/upload/Explore%20Vol.%20X/Details/MCA37.pdf>

Year 2018

13. Accelerating Digital Transformation with the Internet of Everything

Bhawna Sinha

CSI Communications ISSN 0970-647X, Volume Vol. 41, Issue No. 4, Pages 42 – 44

Year 2017

14. E-Waste Management “A Potential Route to Green Computing”

Bhawna Sinha, Shiv Sahay

International Journal of Innovations & Advancement in Computer Science (IJIACS),

Volume 6, Issue 11

Year 2017

15. Direct Benefit Transfer: Issues and Challenges” in respect of Students’ Scholarship Scheme

Bhawna Sinha

Explore Journal of Research, Volume IX, ISSN 2278-0297 (Print), 2278-6414 (Online)
Year 2017

16. Study on Remote File Attacking– Inclusion & Detection

Bhawna Sinha, D. K. Singh, Balwant Kumar

International Journal of Science Engineering and Advance Technology, IJSEAT,

Volume Vol 2, Issue 9,

Year 2014

17. Study of Network Intrusion Detection using Fuzzy Logic

Bhawna Sinha, D. K. Singh, Pankaj Kumar

Journal of Physical Science (ISSN 0975-5519),

Volume Vol. 5 (No.1), Pages 67-73

Year 2013

Publication (Conference Proceedings)

1. E-Governance in Higher Education: Issues and Challenges

Bhawna Sinha, Sushmita Chakraborty

Excellence in Higher Education: Emerging Concerns and the Road Ahead,

ISBN: 978-81-94687-78-8, Pages 44-62

Year 2020

2. ICT - A Catalyst for Innovation in Higher Education

Bhawna Sinha, Neha

Changing Perspectives of Education in India,

ISBN: 978-81-94426-93-6, Pages 51-67

Year 2020

3. ICT-A Tool for Women Empowerment

Bhawna Sinha

Conference Proceeding on Women Empowerment Re-visioning Identities and Building

Strategies for a Participatory Society,

Year 2019

4. Intrusion Detection System: Tools and Techniques

Bhawna Sinha

Proceedings of 6th Bihar Science Conference (International Conference on Science and Technology),

Year 2014

5. Garbage Disposal and Solid Waste Management: e-Waste Management

Bhawna Sinha, Samta Sinha

Development & Management of Urban Infrastructure in India
ISBN-81-85891-25-8

Year 2017

Publication (Books Edited)

1. Core Java Simply In-Depth

Bhawna Sinha, Ajit Singh

Volume Vol 1,

<https://amzn.eu/d/6oW1BWP>

Year 2018

2. Computer literacy: An Overview

Bhawna Sinha, Doris D'Souza, Manisha Prasad, Amrita Prakash

ISBN: 978-81-927627-4-6,

Year 2014

3. Web Designing

Bhawna Sinha, Doris D'Souza, Anshu, Navin Anthony

ISBN: 978-81-927627-3-9,

Year 2014

4. 3 D Animation and Design

Bhawna Sinha, Doris D'Souza, Sushmita Chakraborty, Navin Anthony

ISBN: 978-81-927627-3-9,

Year 2014