

## About Faculty



### Dr. Indu Arora

Associate Professor and HOD, Department of Computer Science and Applications (DCSA)

Dean Sciences, Vice President of IIC@MCM

MCM DAV College For Women, Chandigarh -India.



[indarora@yahoo.co.in](mailto:indarora@yahoo.co.in),  
[indu.arora@mcmdavcwchd.in](mailto:indu.arora@mcmdavcwchd.in)



9876000668

**h- Index:** 3  
**i10- Index** 1

## Areas of Interest

- Programming Languages
- Databases
- Cloud Computing

## Educational Qualification

| Degree | Year | Dept/University   | Percent age | Medals/ Positions             |
|--------|------|---|-------------|-------------------------------|
| Ph.D   | 2016 | Department of Computer Science and Applications,<br>Panjab University, Chandigarh, India          |             |                               |
| M.C.A. | 1992 | Department of Computer Science and Applications,<br>Guru Nanak Dev University, Amritsar,<br>India | 73.5%       | 1 <sup>st</sup> in University |

## Professional Experience

| Designation                 | From  | To                             | Organization  |
|-----------------------------|---|--------------------------------|---|
| Associate Professor and HOD | 8 <sup>th</sup> August 1998<br>(Associate Professor since 2012) | Till date                      | MCM DAV College for Women,<br>Sector- 36A, Chandigarh                 |
| Lecturer                    | 12 <sup>th</sup> Jan, 1998                                      | 31 <sup>st</sup> March 1998    | MCM DAV College for Women,<br>Sector- 36A, Chandigarh                 |
| Lecturer                    | 8 <sup>th</sup> November 1997                                   | 10 <sup>th</sup> January 1998  | Regional institute of<br>Management and Administration,<br>Chandigarh |
| Lecturer                    | 23 <sup>rd</sup> August 1993                                    | 18 <sup>th</sup> October 1997  | BBK DAV College for Women,<br>Amritsar                                |
| Lecturer                    | 3 <sup>rd</sup> August 1993                                     | 21 <sup>st</sup> August 1993   | AB College, Pathankot   |
| Lecturer                    | 18 <sup>th</sup> August 1992                                    | 28 <sup>th</sup> February 1993 | AB College, Pathankot   |

## Research Paper Publications

| Title   | Journal   | Refereed | Date and Year of Publication    | Online Link   |
|---|---|----------|---------------------------------|---|
| InFraMegh-An<br>Implementation of Integrated Framework for Cloud Based Transactional Applications in Educational Institutes | International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), ISSN 2278-0055, vol. 2, issue 14, pp. 110-119 | Yes      | September-<br>November,<br>2015 | <a href="http://iasir.net/IJETCASpapers/IJETCAS15-685.pdf">http://iasir.net/IJETCASpapers/IJETCAS15-685.pdf</a>   |
| Modeling and Designing Integrated Framework for Data Management of Transactional Applications in Cloud                      | International Journal of Scientific & Engineering Research, ISSN 2229-5518, vol. 6, issue 1, pp. 428-433                                      | Yes      | January<br>2015                 | <a href="https://www.ijser.org/paper/Modeling-and-Designing-Integrated-Framework-for-Data-Management.html">https://www.ijser.org/paper/Modeling-and-Designing-Integrated-Framework-for-Data-Management.html</a> |
| Improving Performance of Cloud based Transactional Applications using In-Memory Data Grid                                   | International Journal of Computer Applications, ISSN 0975– 8887, vol. 107, no. 13, pp. 14-19  | Yes      | December<br>2014                | <a href="https://research.ijcaonline.org/volume107/number13/pxc3900387.pdf">https://research.ijcaonline.org/volume107/number13/pxc3900387.pdf</a>   |
| An Integrated Framework for Cloud Data Management in Educational Institutes   | International Journal Computer Technology & Applications, ISSN: 2229-6093, Vol 5 (5), pp.1651-1657  | Yes      | 2014                            | <a href="http://www.ijcta.com/documents/volumes/vol5issue5/ijcta2014050513.pdf">http://www.ijcta.com/documents/volumes/vol5issue5/ijcta2014050513.pdf</a>   |
| Cloud Databases: A Paradigm shift in Databases  | International Journal of Computer Science Issues (IJCSI) ISSN online: 1694-0814, Volume 9, Issue 4  | Yes      | July 2012                       | <a href="http://www.ijcsi.org/papers/IJCSI-9-4-3-77-83.pdf">http://www.ijcsi.org/papers/IJCSI-9-4-3-77-83.pdf</a>   |
| Opportunities, Concerns and Challenges in the Adoption of Cloud Storage   | International Journal of Computer Science and Information Technologies (IJCSIT), ISSN No 0975-9646, Vol. 3 (3) , 4543-4548                    | Yes      | 2012                            | <a href="http://ijcsit.com/docs/Volume%203/vol3Issue3/ijcsit20120303148.pdf">http://ijcsit.com/docs/Volume%203/vol3Issue3/ijcsit20120303148.pdf</a>   |

## Books Published

| Title                                | Publisher         | ISBN              | Year of Publication |
|--------------------------------------|-------------------|-------------------|---------------------|
| Java Programming                     | Kalyani Publisher | 978-93-272-9365-4 | 2018                |
| Application development using VB.NET | Kalyani Publisher | 978-93-88842-76-1 | 2019                |

## Book Chapter Published

- Garg R., Arora I., Gupta A. (2021) Performance Evaluation of VM Allocation Strategies on Heterogeneous Environments in Cloud Data Center. In: Panigrahi C.R., Pati B., Pattanayak B.K., Amic S., Li KC. (eds) Progress in Advanced Computing and Intelligent Engineering.

Advances in Intelligent Systems and Computing, vol 1299. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4299-6\\_43](https://doi.org/10.1007/978-981-33-4299-6_43), (pp.515-526), Print ISBN978-981-33-4298-9, Online ISBN978-981-33-4299-6, First Online 16 April 2021

## Research Paper Presented and Published in International Conferences

- 1) "Developing and Validating Virtualized Transactional Application of Educational Institutes using InFraMegh" International conference on Advances in Computing, communications and Informatics (ICACCI'16) held at LNM Institute of Information technology, Jaipur (21-24 September 2016) and published in Scopus Indexed IEEE Explore 978-1-5090-2029-4 (Electronic ISBN) <https://ieeexplore.ieee.org/document/7732284>
- 2) "Usage of In-Memory Data Grids in Deployment of Transactional Applications in Cloud" in the 7th International Conference on Advanced Computing and Communication Technologies, ICACCT 2013, Volume 2, November 16, 2013, organized by Asia Pacific Institute of Information Technology (APIIT) S.D, Panipat, India
- 2) "Cloud Computing Framework for Educational Institutes" in UGC Sponsored International Conference ICTIS-2010 held on November 20-21, 2010 at DAV College Amritsar.

## Presented Research Papers in Conferences

- 1) "Sustainable Cloud Computing in Education" in UGC Sponsored National Seminar on "Millennium Development Goals and National Mission on Education through ICT" held on September 7-8, 2011 at I.C.S.S.R., Panjab University, Chandigarh.
- 2) "Indian ITES Industry: Growth, Opportunities and Challenges" in International Conference on "Emerging Economies: Challenges and opportunities" held on March 18-19, 2011 at GJIMT, Mohali.
- 3) "Green Computing with Cloud Computing" in 2-day UGC Sponsored National Seminar on 'Global Environmental Issues and Climate Change' Organized by MCM DAV College for Women, Chandigarh on Nov 9-10, 2010.
- 4) "Enhancing skills through Information and Communication Technology" on September 18, 2010 in a two-day seminar on "Integration of Skill development with Higher Education" organized by GGSDS College Rajpur, (Palampur), HP.
- 5) "Blogs: An emerging Trend for non-publishing Revolution" on March 10-11, 2007 in 1st Chandigarh Science Congress (CHASCON-2007), PU, Chandigarh
- 6) 'Data Mining' at National Conference on 'IT Pathway for Transformation of Society' at DAV College, Amritsar on 13-14th March 2004

## Others

1. Member BOS (2019-21) for MBACIT
2. Member BOS (2017-19) for MBACIT and Computer Science & Applications
3. Member BOS (2011-13) for PG and UG -MBACIT and Computer Science & Applications
4. Guided students for presenting papers
  - a. Guided Gurnoor Kohli of BCA II to present a paper on the topic "Managing Electronic Waste- A big Challenge" in 2-day UGC Sponsored National Seminar on 'Global Environmental Issues and Climate Change' organized by MCM DAV College for Women, Chandigarh on Nov 9-10, 2010.

- b. Guided MSc Students (i) Rohini Singla (II) Harpreet Kaur to participate in “ANVESHAN”- Student Research Convention organized by PU, Chandigarh on topics “E-nose” and “I-Mode and its comparison with other Technologies”.
5. Delivered lecture on “How to motivate yourself” on Prize Distribution Ceremony of Shri Chattanya Academy as Guest Speaker (27th January 2007).
6. Editor, IT Section of Mehr Jyoti:2008-12, Computer Section of Shachi-BK DAV College: 1994-96