

## Amrita Sekhon

Address: w/o Er. Parminder Singh Sandhu,

VPO Sandhuan, Teh Sri Chamkaur Sahib, Dist. Ropar.



### EDUCATION

MCA, M Phil-CS, M Tech-IT, UGC-NET.

Currently pursuing PhD in Computer Science from Punjabi University, Patiala

### PROFESSIONAL EXPERIENCE:

- ❖ Presently working as Assistant Professor in Computer Science at Bibi Sharan Kaur Khalsa College, Sri Chamkaur Sahib since August 9, 2016 till date.
- ❖ Eight years experience of working as Assistant Professor and Head, Department of Computer Science, ASBASJSM College, Bela (Ropar) from July 22, 2008 to August 8, 2016.
- ❖ Three years teaching experience in ASBASJSM College of Pharmacy, Bela (Ropar) from 2005 to 2008.
- ❖ Three years teaching experience in DAV College, Sector 10, Chandigarh from 2002 to 2005.
- ❖ One year industrial experience in AdMac Pharma Ltd, Chandigarh as part time programmer.
- ❖ Six-months industrial training in software development for Punjab Communications Ltd (PUNCOM) Mohali.
- ❖ Member of Professionals' Club at DAVC, Sec-10, Chandigarh from 2002 to 2005.
- ❖ Editor of IT Magazine name ICON at DAVC, Sec-10, Chandigarh from 2002 to 2005.
- ❖ Member of IT Society at ASBASJSM College, Bela (Ropar) from July 2008 to July 2016.
- ❖ Member of Discipline Committee at ASBASJSM College, Bela (Ropar) from July 2008 to July 2016.
- ❖ Coordinator of Old Students Association, ASBASJSM College, Bela from July 2008 to July 2016.
- ❖ Member of Women's Cell, ASBASJS Memorial College, Bela (Ropar) from July 2008 to July 2016.
- ❖ **Member of Senate**, Punjabi University, Patiala from February 2010 to June 2011.
- ❖ **Member of Faculty of Physical Sciences**, Punjabi University, Patiala from August 2011 to January 2013.

- ❖ Co-Coordinator of Study Centre of NIOS (National Institute of Open Schooling), New Delhi at ASBASJSM College, Bela from July 2014 to July 2016.

### **PUBLICATIONS:**

- ❖ Published a paper on ‘E-Governance Measures in Punjab Post Covid- Quo Vadis?’ in the Seminar proceedings of the All India Seminar on ‘Business Intelligence with Intelligent Computing’ co-organised by The Institute of Engineers (India), Punjab and Chandigarh State Centre and BAM Khalsa College, Garhshankar, Hoshiarpur on March 4-5, 2022.
- ❖ Published a paper titled ‘Unified Identity based Single Window System under E Governance Initiatives - A Review’ in the Conference Proceedings of 2021 ‘Hinokuni – Land of Fire’ Information Processing Symposium in Japan on March 1-2, 2021 (<https://www.ipsj-kyushu.jp/page/ronbun/hinokuni/1010/program.htm>).
- ❖ Published a paper titled ‘Green Computing- An Energy Saver using Computer Virtualization’ in the book titled ‘Cloud Computing and Network Security’ published by Unistar Books and Pvt Ltd ISBN 978-93-83437-00-9.
- ❖ Published a paper titled ‘Role of International Laws in Managing Globalization’ in the book titled ‘Human Rights, Civilization and Culture in Emerging Globalized World’ published by Twenty First Century Publications ISBN 987-93-85448-04-1.
- ❖ Published a paper titled ‘Impact on Education and IT on Women Empowerment in India’ in Zenith International Journal of Multidisciplinary Research ISSN 2231-5780, June 2016, Volume 6(6), pp.14-19.
- ❖ Published a paper titled ‘PAAS Framework Implementation of Cloud Computing with Google Application Engine - A Review’ in IJCSET (International Journal of Computer Science Engineering and Technology) ISSN 2231-0711, June 2016, Volume 6 Issue 6, pp. 218-222.
- ❖ Published a paper titled ‘Recent Trends in E Commerce Industry’ in GIIRJ (Galaxy International Interdisciplinary Research Journal) ISSN 2347-6915, May 2016, Volume 4(5), pp. 54-57.
- ❖ Co-authored a book on ‘Fundamentals of Information Technology’, ISBN 978-93-85446-46-7, Twentyfirst Century Publications.
- ❖ Published a paper titled ‘Recent Advances in High Performance Computing’ in International Journal of Advance Research in Science and Engineering (IJARSE- ISSN(O): 2319-8354, ISSN(P): 23198346) in Volume 06, Issue 01, January 2017.

### **SEMINARS / CONFERENCES / TRAININGS ATTENDED:**

- ❖ Attended a Training Programme on EBSCO (Elton B. Stephens Company) Business Courses organized by Punjabi University, Patiala in collaboration with EBSCO Information Services on April 26, 2022.
- ❖ Attended an ISEA-II sponsored one week short term course on ‘Cyber Forensic and Information Security’ organized by Department of Computer Science and Engineering, Dr. B

R Ambedkar National Institute of Technology, Jalandhar from December 16, 2021 to December 20, 2021.

- ❖ Attended an AICTE Training and Learning (ATAL) Academy online elementary FDP on ‘Stress Management’ from December 6, 2021 to December 10, 2021 at St. Joseph’s College (Autonomous), Devagiri, Maharashtra.
- ❖ Attended a one day webinar on ‘Augmented Reality-Virtual Reality’, organized by Department of Computer Science, Punjabi University, Patiala in collaboration with National Institute of Electronics and Information Technology (NIELIT), Ropar, on July 14, 2021.
- ❖ Attended a three day virtual conference ICTeSSH2021 (International Conference on Information – Communication Technologies enhanced Social Sciences and Humanities 2021) from 28 June, 2021 to 30 June, 2021.
- ❖ Attended an online lecture on ‘Research in higher Education in the Perspective of NEP 2020’ in Leader ‘S’peak Lecture Series organized by Centre for E learning and Teaching Excellence (CELTE), Punjabi University, Patiala on May 29, 2021.
- ❖ Attended a one day National seminar on ‘Guru Teg Bahadur ji- Jiwan, Darshan ate Yogdaan’ organized by PG Government College, Sector 46, Chandigarh on March 13, 2021.
- ❖ Attended a two days online workshop on ‘Big Data Analytics and Applications’, organized by Guru Nanak College, Moga, from December 11-12, 2020.
- ❖ Attended the UGC-Sponsored 45<sup>th</sup> Faculty Induction Programme organized by Punjabi University, Patiala, from October 3-31, 2020 and obtained Grade A.
- ❖ Attended a webinar on ‘Cyber attacks: A Severe Threat to Humanity’ organized by D.M. College, Moga on August 24, 2020.
- ❖ Attended a national level webinar on ‘Technology Transforming Teaching’ organized by Guru Nanak National College for women, Nakodar, Jalandhar on August 14, 2020.
- ❖ Attended a one day Online Capacity Building Program for teachers on ‘Basic Tools and techniques for Online Teaching’ organized by UGC-HRDC and Centre for E-Learning and Teaching Excellence, Punjabi University, Patiala on August 9, 2020.
- ❖ Attended an International Webinar on ‘Cognitive Behavioral Therapy-Staying Resilient during COVID-19’ organized by DAV College of Education, Abohar on August 8, 2020.
- ❖ Attended a national level webinar on ‘Role of ICT in Teaching Learning Process’ organized by Guru Nanak National College for women, Nakodar, Jalandhar on August 7, 2020.
- ❖ Attended a one week Faculty Development Programme on ‘Online Teaching-Learning Practices: Challenges and Solutions’ organized by SGTB Khalsa College, Sri Anandpur Sahib, from July 7-13, 2020.
- ❖ Attended a five day online Faculty Development Programme on ‘New Pedagogies: Creative Learning and Creative Teaching-A Futuristic Approach’ organized by Dashmesh Khalsa College, Zirakpur, from June 20-24, 2020.
- ❖ Attended a one week online workshop on ‘E Learning’ organized by Mata Gujri College, Fatehgarh Sahib, from June 8-12, 2020.

- ❖ Attended a one day Capacity Building Workshop for NAAC Accreditation of Colleges on 30 September, 2019 organized by Dean College Development Council, Punjabi University, Patiala.
- ❖ Attended a one day 'Python' Workshop on 22 June 2019 at Chandigarh University, Mohali. This training was organized by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT).
- ❖ Attended a Self-Defense training programme (SWAYAM) organized by the Chandigarh Police from June 16, 2017 to June 30, 2017.
- ❖ Attended a national seminar on 'Role of ICT in Education, Research and Innovation' organized by Department of Computer Science and Applications, Panjab University, Chandigarh on 21<sup>st</sup> November, 2014.
- ❖ Attended a three day workshop on 'Human Values and Professional Ethics' organized by ASBASJSM College of Pharmacy, Bela (Ropar) on 18-20 April, 2013.
- ❖ Attended a Faculty Development Programme on 'Orientation Promulgate for Quality Initiative' organized by ASBASJSM College, Bela (Ropar) on 19<sup>th</sup> January, 2013.
- ❖ Attended short term course in 'Handling Mid Career Challenges in Academic Profession' organized by Panjab University, Chandigarh from 1-7 August, 2012.
- ❖ Attended national workshop on 'Modern aspects of Teaching, training, technology and research in academic development-challenges and opportunities' organized by ASBASJSM College of Pharmacy, Bela (Ropar) on 3-7 July, 2012.
- ❖ Attended national workshop on 'Matlab and its applications in Engineering' organized by MMU, Sadopur (Ambala) on 20-21 April, 2012.
- ❖ Attended national seminar on 'Recent trends in Biotechnology' at ASBASJSM College, Bela (Ropar) on 7<sup>th</sup> November, 2011.

#### **PAPERS / POSTERS PRESENTED:**

- ❖ Presented a paper on 'E-Governance Measures in Punjab Post Covid- Quo Vadis?' in All India Seminar on 'Business Intelligence with Intelligent Computing' co-organized by The Institute of Engineers (India), Punjab and Chandigarh State Centre and BAM Khalsa College, Garhshankar, Hoshiarpur on March 4-5, 2022.
- ❖ Presented a paper on 'A Comprehensive Study of delivering E Services to citizens using Single Window System' at 25<sup>th</sup> Punjab Science Congress-2022 on 'Future Endeavors of Science and Technology for Sustainable Growth' held at SGTB Khalsa College, Sri Anandpur Sahib on February 7-9, 2022.
- ❖ Presented a Paper on 'Unified Identity based Single Window System under E Governance Initiatives - A Review' at 2021 'Hinokuni – Land of Fire' Information Processing Symposium in Oita University, Japan on March 1-2, 2021. The symposium was hosted by the Kyushu Branch of the Information Processing Society of Japan and supported by IEEE Fukuoka Section.

- ❖ Presented a Poster on ‘Need for a Unified Smart Identity based Online Single Window System for E Governance - A Review’ at 4<sup>th</sup> Academia-Industry Exchange IIBG Symposium 2020 on ‘International Business, Innovation and Governance: Shaping the Future of Smart Economy’, in Hong Kong, China on December 4, 2020.
- ❖ Presented a paper titled ‘AI Applications in India- Strengths and Challenges’ in International Conference on Digital Transformation : A Cognitive Learning Towards Artificial Intelligence organized by Rajiv Gandhi National University of Law, Patiala (Punjab) on 06-08 September, 2019.
- ❖ Presented a paper titled ‘Role of New Age Technologies in Women Empowerment’ in National Seminar organized by Mata Ganga Khalsa College for Girls, Kottan, Manji Sahib (Ludhiana) on 6<sup>th</sup> April, 2019.
- ❖ Presented a paper titled ‘Use of Social Networking for a healthy, drug-free Society’ in National Seminar organized under DBT sponsored Star College Scheme by Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib on 23<sup>rd</sup> February 2019.
- ❖ Presented a paper titled ‘Online Child Abuse- Measures and Remedies’ in National Seminar organized on ‘Human Rights and Social Justice’ by ASBASJS Memorial College, Bela (Ropar) on 20<sup>th</sup> February 2019 (World Day of Social Justice).
- ❖ Presented a paper titled ‘Internet as a Strategic Tool to promote E- Tourism in India- A Survey’ in ICSSR, NWRC, Chandigarh sponsored National Seminar on ‘ Democracy, Capitalism and Conflict’ organized by Cordia College, Sanghol (Fatehgarh Sahib) on 22<sup>nd</sup> February, 2018.
- ❖ Presented a paper titled “Types of Cyber attacks and ways to prevent them’ in National Seminar sponsored by College Development Council, PU, Chandigarh on ‘Changing Scenario of Indian Banking Sector’ organized by Guru Gobind Singh Khalsa College for Women, Jhar Sahib (Ludhiana) on 10<sup>th</sup> February 2018.
- ❖ Presented a paper titled ‘Women in the changing India - Role of Information Technology’ in 9<sup>th</sup> International Conference on ‘Empowering in the Changing World of Work: Planet 50-50 by 2030’ organized by Women’s Studies Centre, Punjabi University, Patiala on 22<sup>nd</sup> November 2017.
- ❖ Presented a paper titled ‘Green Computing- An Energy Saver using Computer Virtualization’ in UGC sponsored National Conference on ‘Cloud Computing and Network Security’ organized by Shri Guru Teg Bahadur Khalsa College, Shri Anandpur Sahib on 25<sup>th</sup> March 2017.
- ❖ Presented a paper titled ‘Cyber Bullying in India- Challenges and Remedies’ in national seminar on ‘Cyber Security in India: Challenges and Responses’ organized by Department of Defense and Strategic Studies, Punjabi University, Patiala on 1<sup>st</sup> March 2017.
- ❖ Presented a paper titled ‘Recent Advances in High Performance Computing’ in 6<sup>th</sup> International Conference on Recent Trends in Engineering, Science and Management (ICRTESM-17) organized by Shri Guru Teg Bahadur Khalsa College, Shri Anandpur Sahib held on 8<sup>th</sup> January 2017 at National Institute of Technical Teachers training and Research, Chandigarh (ISBN : 978-93-86171-210-4)

- ❖ Presented a paper titled ‘Social Media Sites- A possible intervention for controlling Drug Abuse’ in International Conference on ‘Drug and Development’ organized by UILS ( University Institute of Legal Studies), Panjab University, Chandigarh on 8<sup>th</sup> and 9<sup>th</sup> April, 2016.
- ❖ Presented a paper titled ‘Impact of International laws in Globalization’ in national seminar on ‘Globalization: Challenges and Opportunities’ organized by School of Social Sciences, Punjabi University, Patiala on 7<sup>th</sup> March, 2016.
- ❖ Presented a paper titled ‘Women Empowerment - Role of Education and IT’ in 7<sup>th</sup> International Conference on ‘Empowering Women, Empowering Humanity’ organized by Women’s Studies Centre, Punjabi University, Patiala on 11-12 December, 2015.
- ❖ Presented a paper on ‘Recent Trends in E Commerce Industry’ in national seminar on ‘Emerging Trends in E Commerce and Food Processing industry’ organized by ASBASJSM College, Bela (Ropar) on 24<sup>th</sup> October, 2015.
- ❖ Delivered an expert lecture on ‘Artificial Intelligence in a nutshell’ at Baba Zorawar Singh Fateh Singh Khalsa Girls College, Morinda on 27<sup>th</sup> March, 2015.
- ❖ Presented a paper on ‘Role of International Laws in Managing Globalization’ and got 1<sup>st</sup> position in a national conference on ‘Human Rights, Civilization and Culture in emerging Globalized World’ organized by ASBASJSM College, Bela (Ropar) on 27-28 February, 2015.
- ❖ Presented paper titled ‘Gaussian High Pass and Low Pass Filters-A Comparison’ in Chascon-2008 (2<sup>nd</sup> Chandigarh Science Congress), Panjab University, Chandigarh and adjudged 3<sup>rd</sup> position on 14-15 March, 2008.

#### **EVENTS ORGANISED:**

- ❖ Organized a national level online one month Free Basic Computer Course from 21 June, 2021 to 20 July, 2021 at the Department of Computer Science, Bibi Sharan Kaur Khalsa College, Sri Chamkaur Sahib for the general public. Weekend tests were conducted and E Certificates were issued to the participants on successful completion of the workshop. All the lectures are available on the college YouTube channel.
- ❖ Organized a one day workshop on ‘Computing in a New Perspective’ on 23<sup>rd</sup> November, 2019 at Bibi Sharan Kaur Khalsa College, Sri Chamkaur Sahib for school and college faculty of the region and staff of government organizations in Chamkaur Sahib. The keynote speakers were Dr. Kawaljeet Singh, Director, University Computer Centre and Additional Controller of Examinations, PUP and Dr. C P Kamboj, Assistant Professor, Punjabi Computer Help Centre, Punjabi University, Patiala.
- ❖ Organized a 10 days training workshop for teaching and non-teaching faculty members at Bibi Sharan Kaur Khalsa College, Sri Chamkaur Sahib from December 1-10, 2016.
- ❖ Organized a one month free Basic Computer Course in ASBASJS Memorial College, Bela for general public from June 1, 2016 to 30 June 2016.
- ❖ Organized a national level seminar on ‘Recent Trends in IT’ at ASBASJSM College, Bela (Ropar) on 7<sup>th</sup> November, 2015 with Dr. Nitin Auluck, Head, Department of Computer Science

and Engineering, IIT, Roopnagar and Dr. Vishal Goyal, Associate Professor, Department of Computer Science, Punjabi University, Patiala as keynote speakers.

- ❖ Organized a state level workshop on 'Web designing' at ASBASJSM College, Bela (Ropar) on 17-18 November, 2011 in collaboration with Infowaves Systems Private Limited, Roopnagar.

**AWARDS CONFERED:**

- ❖ State level Award conferred at the Teej celebrations ceremony on August 11, 2017 organised by the Punjab Kala Manch Registration No. 1408 Society Act 1860 at Sri Chamkaur Sahib, District Roopnagar.