# Dr. MADHU AGNIHOTRI nee AGARWAL

*M.Com., M.C.A., Ph.D.*

**Assistant Professor**
**Head of the Department (Information Technology)**
**Department of Commerce (Morning),**
**St. Xavier's College (Autonomous), Kolkata**

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## Academic Qualification

- ◆ **Ph.D. in Commerce from University of Calcutta**
- ◆ **Master of Computer Applications (M.C.A.)**
- ◆ **Master of Commerce (M. Com.)**
- ◆ **UGC - NET in Commerce**

## Certification

**ProAct Digital Teacher certified from Loyola Institute of Business Administration (LIBA) in June 2020.**

## Professional / Academic / Research Activities:

### Administrative Experience:

*Key activities:*
- ◆ Presently acting as **Head of the Department (HOD)** since, 2017 till date.
- ◆ Acted as Professor-in-charge for more than seven years.
- ◆ Organized student seminars by inviting industry speakers for introducing the students to the current industry practices.
- ◆ Played critical role in syllabus designing and restructuring for the department during the new curriculum design under Choice Based Credit System (CBCS).
- ◆ Organized several internal faculty orientation programmes each semester as per need to ensure the revision and updating of knowledge of the members of the department.
- ◆ Organized one day National Workshop on Plagiarism and Academic Integrity jointly with Fr. Verstraeten Library, St. Xavier's College (Autonomous), Kolkata in 2019.

### As Resource Person:

- ◆ Invited as a keynote speaker to a webinar on "Digital Transformation and Cloud Management Issues during COVID Pandemic" organized by the Department of Computer Applications, Narula Institute of Technology, JIS Group on 7th November, 2020.

- Invites as a speaker to deliver a speech on "**Mathematics for Management**" organized by TechnoIndia College of Technology, Rajarhat Campus, Kolkata on 23rd September, 2020.

- Invited as a resource person to conduct a *One Day workshop* on "Introduction to Plagiarism with Hands-on Session on iThenticate for Assistant Professors of Department of Management Studies and Department of Commerce, St. Xavier's College (Autonomous), Kolkata in March 2020.

- Invited to conduct a workshop on "Advanced Database Concepts and Designing Computerized Accounting System" for academic fraternity of various colleges in *Three Day Faculty Development Program* organized by Lalbaba College in February, 2020.

- Invited to act as a resource person to deliver a lecture on "Designing Computerized Accounting" in the workshop on *Computerised Accounting and e-filing of Tax Return* for the academic fraternity of colleges under University of Calcutta, organized by Board of Studies of Undergraduate Courses of University of Calcutta jointly with Netaji Nagar Day College in January 2020.

- Invited as a resource person to conduct the hands-on session on iThenticate for the participants of the *One Day National workshop on Plagiarism and Academic Integrity (using i-Thenticate)* organized by Department of Information Technology and Fr. Verstraeten Library, St. Xavier's College (Autonomous), Kolkata in August, 2019.

- Delivered an invited talk on "Financial Mathematics using Excel" organized by *Department of Mathematics and Statistics*, St. Xavier's College (Autonomous), Kolkata on 1st February, 2019.


## As Organizer / Committee member for Conferences / Workshop / Orientation Programmes :

- Organizing Committee member for the **Summer Camp** for school children by the Department of Social Works and UBA, St. Xavier's College (Autonomous), Kolkata from 17th May to 21st May, 2021.

- Organized a web talk on *"Cyber Crime and The Law"* jointly with Department of Law and Department of Computer Science, St. Xavier's College (Autonomous), Kolkata, on 17th April, 2021.

- Organizing Committee member, Technical committee, for the Two Days *International Webinar Series* for youth organized by the Department of Social Works and UBA, St. Xavier's College (Autonomous), Kolkata on 23rd and 24th September, 2020.

- Organizing Committee member for the One Day webinar on *"Stress Management Skills for Students under the COVID 19 Paradigm"* organized by the Department of Commerce and Business Administration, St. Xavier's College (Autonomous), Kolkata on 1st August, 2020

- Organized the Internal Faculty Orientation Programme for Department of Information Technology, St. Xavier's College (Autonomous), Kolkata on *Designing Computerized Accounting System – Using DBMS* in February, 2020.

- Organized the Internal Faculty Orientation Programme for Department of Information Technology, St. Xavier's College (Autonomous), Kolkata on *Payroll Accounting System – Using Tally* in January, 2020.

- Organized the Internal Faculty Orientation Programme for Department of Information Technology, St. Xavier's College (Autonomous), Kolkata on *Retail Accounting System – Using Tally* in December, 2019.

- Acted as the Convener of the Technical Committee, Organizing Committee in the *Two Day International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management-Transformation of the Global Economy,* organized by Departments of Commerce and Management Studies of St. Xavier's College (Autonomous), Kolkata in collaboration with Bengal Chamber of Commerce & Industry, 13th-14th September'2019.

- Organized and acted as the Convener for the *One Day National Workshop on Plagiarism And Academic Integrity,* organized by Department of Information Technology and Fr. Verstraeten Library of St. Xavier's College (Autonomous), Kolkata on 31st August'2019.

- Organizing Committee member for the *7-Day UGC Approved National Workshop on Quantitative Research Methodology (using SPSS-AMOS-iThenticate),* organized by Departments of Commerce and Management Studies of St. Xavier's College (Autonomous), Kolkata in collaboration with Institute of Development Studies (IDSK) from 8th August to 17th August,2019.

- Organized the Internal Faculty Orientation Programme for Department of Information Technology on *Web Page Designing* in 2019.

- Organized Skill Development Programme for the Department of Information Technology on *"Advanced Excel-A Professional Approach"* in December, 2018

- Organized Skill Development Programme for the department on "*GST Through Computerized Accounting*" in December, 2017

- Organized multiple seminars by inviting speakers from industry for students of undergraduate course on contemporary topics in the domain of E-commerce, Digital marketing and Cyber Law.

## As Participant in Academic Programmes:

Large number of Regional, National and International Conferences attended till. Few among those are mentioned below :

- Completed AICTE Training and Learning Academy Online FDP on "**Data Analytics for Research and Publications**" from 14th June to 18th June 2021 from IIM Vishakhapatnam.

- Completed AICTE Training and Learning Academy Online FDP on "**Cyber Security**" from 7th June to 11th June 2021 from Anand Institute of Higher technology.

- Webinar on **Security Awareness in Digital Tomorrow** organized by Cyber Security Centre of Excellence, Department of Information Technology & Electronics, Government of West Bengal held on and from 7th June to 9th June 2021.

- Completed a course in "**Business Analytics in Excel**" from Simplilearn under SkillUp program on 3rd June, 2021.

- Webinar on **"GDPR-How it affects Indian Software Industry"** organized by Cyber Security Centre of Excellence, Department of Information Technology & Electronics, Government of West Bengal in collaboration with NASSCOM-KOLKATA, CIO club and Infosec Foundation, held on 25th November, 2020.

- One-week Online Faculty Development Program on "**Recent Research Challenges in Computer Science and Applications (RRCCSA)**" organized by Department of Computer Science and Engineering, RCC Institute Kolkata, held from 23th November, 2020 to 28th November, 2020.

- Completed a course on **"Responsive Website Basics : Code with HTML, CSS and Javascript"** from

University of London, CourseEra on 19th November, 2020.

- Completed a course on **"Excel Fundamentals for Data Analysis"** from Macquarie University, CoursEera on 14th September, 2020.

- One day webinar on **"Knowledge Engineering on Artificial Intelligence"**, organized by Department of Computer Science, St. Antony's College of Arts and Sciences for Women, Thamaraipadi, Tamilnadu, on 7th September, 2020.

- Webinar on **"IPR and e-content"** organized by School of Business Studies, Sharda University, Noida, on 29th August, 2020.

- **Two-day webinar on "NAAC Assessment and Accreditation Process"** under UGC PARAMARSH Scheme, organized by the IQAC and Academic Council of St. Xavier's College (Autonomous), Kolkata on 30th & 31st July, 2020.

- *Three Days Faculty Development Programme on "Outcome Based Education"* organized by IQAC, Rai University, Ahemadabad , in Association with Inpods, Pune on 22nd July, to 24th July, 2020.

- *Two Days International Webinar on "Managing Business in a Post COVID-19 World: Changes, Challenges and Strategies"* organized by Post Graduate Department of Commerce with IQAC, St. Xavier's College (Autonomous), Kolkata held on 18th and 19th July, 2020.

- *Seven Days Faculty Development Programme on "Essentials for Blended Learning"* organized by the Department of Information Technology, **Dr. M.G.R. Educational and Research Institute,** Chennai, from 13th July to 20th July, **2020**.

- *Two-weeks Faculty Development Programme on "Advanced Concepts For Developing MOOCS"* organized by Ramanujan College, University of Delhi and Ministry of Human Resource Development (MHRD), Government of India from 2nd July to 17th July 2020.

- *Two-day National webinar on "Pandemics and Natural Disasters: Understanding and Coping",* organized by the IQAC and Academic Council of St. Xavier's College (Autonomous), Kolkata on 11th & 12th July, 2020.

- *In Frontiers in Biological Sciences (Chapter IV), an International level webinar on "Covid-19: The Current Scenario",* organized by Department of Microbiology in collaboration with the IQAC, St. Xavier's College (Autonomous), Kolkata on 2nd & 4th July, 2020.

- *Five-Days Faculty Development Programme on "Recent Advances in Machine Learning and its Applications"* organized by Amity University, Kolkata, from 23rd June to 27th June 2020.

- Successfully completed the course is on online teaching skills organized by **Loyola Institute of Business Administration (LIBA)** from 15th June to 20th June **2020, and got** Certified as **"ProAct Digital Teacher".**

- *Two Day International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management-Transformation of the Global Economy,* organized by Departments of Commerce and Management Studies of St. Xavier's College (Autonomous), Kolkata in collaboration with Bengal Chamber of Commerce & Industry,13th-14th September'2019.

- *7-Day UGC Approved National Workshop on Quantitative Research Methodology (using SPSS-AMOS-iThenticate),* organized by Departments of Commerce and Management Studies of St. Xavier's College (Autonomous), Kolkata in collaboration with Institute of Development Studies (IDSK) from 8th August to 17th August,2019.

- ◆ *One Day National Seminar On "Data Science-The Key To The Future",* organized by Departments of Computer Science and Statistics, St. Xavier's Colleges (Autonomous), Kolkata on 22nd July'2019.

- ◆ *Knowledge Workshop On Mobile Governance and Mobile Manufacturing,* organized by Department of Information Technology & Electronics, Government Of West Bengal on 18th April'2019.

- ◆ *International Workshop on Pattern Analysis and Applications* during 26-28 February, 2019 at the Indian Statistical Institute, Kolkata.

- ◆ UGC sponsored *Refresher Course* organised by the Academic Staff College, University of Calcutta in the subject Business Studies from 31st December, 2018 – 22nd January, 2019.

- ◆ *"The Global Blockchain Congress Consensus 2018"* on 18th & 19th December, 2018, organized by Ministry of Information Technology and Electronics, Government of West Bengal.

- ◆ The seminar on *"Intellectual Property Law and Internet"* on 10th October, 2018 organized by the Department of Computer Centre and Central Computing Facilities held at St.Xavier's college(Autonomous),Kolkata.

- ◆ Seven-days Faculty Development Programme organized by Bijoy Krishna Girls' College, Howrah in collaboration with Spoken Tutorial, IIT Bombay on LaTex&Libre Office Calc. from 23rd may – 29th May, **2017**.

- ◆ Seven-days Workshop on SPSS organized by St. Xavier's College (Autonomous), Kolkata during 1st Oct to 8th October, **2015**.

- ◆ UGC sponsored *Refresher Course* organised by the Academic Staff College, University of Calcutta in the subject Business Studies from 18th July – 8th August, **2014**.

- ◆ UGC sponsored **Orientation Programme** organized by Academic Staff College, University of Calcutta in **2012**.

- ◆ A 30 hour Workshop on SPSS organized by St. Xavier's College (Autonomous), Kolkata during December January, **2011**.

## Faculty Recharge Programme attended:

1. Faculty development programme for B.Com. (Morning and Evening) & B.B.A. Departments organised by St. Xavier's College (Autonomous), Kolkata on 17th September, **2011**.

2. Faculty improvement programme organized by the Department of Economics (Commerce) on the theme Issues in Elementary Econometrics, St. Xavier's College (Autonomous), Kolkata on 6th October, **2012**.

3. Faculty development programme organized by the Department of Management, Faculty of Commerce, St. Xavier's College (Autonomous), Kolkata on 24th August, **2013**.

4. **Faculty Development Programme organized for all faculty members of the college in 2014, 2015, 2016, 2017, 2018, 2019,2020.**

## Publication Activities:

### I.    Book Chapter

1. Book Chapter on *"Conflict Management and Resolution in Context of Educational Institutes"* at IGI-Global Publications in the Book "Strategic Approaches for Conflict Resolution in Organizations :

Emerging Research and Opportunities"; ISBN13: 9781799817260; EISBN:9781799817284; DOI: 10.4018/978-1-7998-1726-0 published in November 2019.

2. Book Chapter on *"Overview and future scope of SWAYAM in the world of MOOCS: A comparative study with reference to major International MOOCS"*, published in Springer Nature Singapore Pte Ltd. Springer, Singapore. vol 197, pg 19-201 https://doi.org/10.1007/978-981-15-8744-3_9 , 2021

1. Book Chapter on *A Review of the Revolutionizing Role of Big Data in the Retail Industry* has been accepted by Publisher ``Apple Academic Press'' in Book "Data science and Computing Technology: Methodology and Application". (June 2021)

2. Book Chapter on *The Utility of Regional Language Facility in Accounting Software for Retail Market of West Bengal* has been accepted by Publisher `` Apple Academic Press'' in Book "Data science and Computing Technology: Methodology and Application" (June 2021)

3. Book Chapter on *Science Fiction as an advisor in Modern Day Education and Business Sectors* has been accepted by Publisher `` MCDT'' in Book Chapter "Research Innovations in Electrical and Communication Engineering" (June 2021)

## II.    Journal Publications:

1. **"An Investigation Between Sales And Selling Costs : The Nestle Experience",** CALYX, Journal of Business Management, ISSN - 2229-4260, December, 2012.

2. **"Is Whistleblowing Ethical - Few Observations"**, MAGIS, ISSN - 2319-3239, 2013

3. **"Institutionalized Whistleblowing Policies In Indian IT Sector Companies – A Content Analysis**", AVISHKAAR, A Xaverian Journal of Research, ISSN - 2277-8411, Vol. – V, January, 2013, pg 52-67.

4. **"Global Scenario of Whistleblower Act",** Book of Papers, National Conference on Dynamics of Global Business Environment: Issues and Challenges, J. D. Birla Institute, 43 – 50, December, 2017.

5. **"Institutionalized Whistleblowing – A Study of the Perception of Executives of Selected Central Public Sector Enterprises in Kolkata"**. Research Bulletin, The Institute of Cost Accountants of India, Vol. 43(II), 72 – 83, 2017.

6. **"A Content Analysis of the Whistleblowing Policies of Selected Central Public Sector Enterprises".** Business Studies, University of Calcutta, Volume XXXVIII, January July 2017 (No. 1 & 2),

7. **Blockchain Technology for Financial Sector – An Overview.** International Journal of Computer Sciences and Engineering, Volume-07 , Issue-01 , Page no. 118-122, Jan-2019.

8. **"Impact of M-Governance Amongst Citizens",** YOUTHINK, Vol XIV, 2019, ISSN:2347-6222.

9. **"Business Spirituality: The new mantra for creating valuables based on values"** YOUTHINK, Vol XIV, 2019, ISSN:2347-6222.

10. **"Homomorphic Encryption Method for Business Data Security in Cloud",** Our Heritage, Vol-68-Issue-8, January-2020, ISSN: 0474-9030.

11. **"The utility of regional language facility in accounting software for retail market of West Benga**l", *Accepted* for publication in Apple Academic Press (A Unit of CRC Press, Taylor & Francis Group), USA.

12. "**A Review of the Revolutionizing Role of Big Data in Retail Industry",** *Accepted* for publication in Apple Academic Press (A Unit of CRC Press, Taylor & Francis Group), USA.

13. **"Science Fiction as an advisor in Modern Day Education and Business Sector"**, _Accepted_ for presentation and publication in International Conference on Emerging Trends in Science and Technology -TechMeet 2020 (to be held in August), organized by Pailan Group of Institutions.

## III. Conference Proceedings:

1. *"A content analysis of whistleblowing policies in indian it sector companies"* (PAGE - 569), 12th INTERNATIONAL CONFERENCE OF SGBED, SINGAPORE (JULY 21-23, 2011)

2. *"Better learning with"E"* " (PAGE-57), 2nd INTERNATIONAL CONFERENCE ON COMPUTING AND SYSTEMS 2012, BURDWAN (MARCH 15-16, 2012), ISBN-93-80813-18-X

3. *"Self service portal - a strategic approach towards human resource management"* (PAGE-117), 3rd INTERNATIONAL CONFERENCE ON COMPUTING AND SYSTEMS 2012, BURDWAN (MARCH 15-16, 2012), ISBN-93-80813-18-X

4. *"A study of b2b hubs as e-commerce facilitator"*, 2nd INTERNATIONAL CONFERENCE ON COMPUTING AND SYSTEMS 2013, BURDWAN (SEPT 21-22, 2013), ISBN -13-978-9-35-134273-1

5. "*Cloud Computing For SMEs And The Indian Scenario*", 3rd International Conference on Computing and Systems 2016 (ICCS-2016), Department of Computer Science, University of Burdwan, 21st and 22nd January , 2016.

## IV. Papers presented :

1. "Online Recruitment - An E-Business Perspective", International Conference on Computing and Systems 2010, organized by Department of Computer Science, Burdwan University

2. "Implementation of Open Source Software As A Strategy for Sustainability And Growth During Economic Slowdown"; International Conference on Sustainability & Growth Strategy in Economic Downturn, 2010, Organized by Department of Commerce, Netaji Nagar College, Calcutta University

3. "Steganography And Its Application In E-Business", National Conference on Computing and Systems 2010, Organized by Department of Computer Science, Burdwan University.

4. "A Content Analysis of Whistleblowing Policies in Indian IT Sector Companies"; International Conference on Building Capabilities for Sustainable Global Business: Balancing Corporate Success & Social Good, 2011, Organized by SGBED, Montclair University, Singapore Management University.

5. "Better Learning With "E"", Second National Conference on Computing and Systems 2012, Organized by Department of Computer Science, Burdwan University.

6. "Self-Service Portal - A Strategic Approach towards Human Resource Management", Second National Conference on Computing and Systems 2012, Organized by Department of Computer Science, Burdwan University.

7. "Whistle Blowing - The Ethical Dilemma", National Conference on Emerging Trends in Business (NCETB) 2013, Organized by Department of Management Studies, Christ University, Bangalore.

8. "Whistleblowing and the act of Whistleblowing", Second International Conference on Contemporary Debates in Public Policy and Management, IIM Calcutta, 15-17 January, 2016.

9. "Cloud Computing For SMEs And The Indian Scenario", Third InternationalConferenceon Computing and Systems 2016 (ICCS -2016), Department of Computer Science, University of Burdwan, 21st and 22nd January , 2016.

10. "Global Scenario of Whistleblower Act", National Conference on Dynamics of Global Business Environment: Issues and Challenges, Organized by Department of Commerce, J. D. Birla Institute, 31st August and 1st September, 2017.

11. Delivered a lecture on "Faculty Perspective on Social Outreach Programmes in City-Based Colleges" in the State Level Seminar on The Challenges and Prospects of Social Outreach Programmes in City-Based Colleges" organized by IQAC and NSS at ShriShikshayatan College, Kolkataon 11th May, 2018.

12. "Blockchain Technology For Financial Sector – An Overview" 1st International Conference on Innovations in Computer Science (ICICS-2018) organized by the Department of Computer Science, University of Burdwan on 21st & 22nd December, 2018.

13. "Choice between company policy and ethical auditing: An Auditor's dilemma" for International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management (ICCEEM) 2019, organized by St. Xavier's College(Autonomous) Kolkata in collaboration with Bengal National Chamber of Commerce and Industry on 13th and 14th September, 2019.

14. "A Critical Study Of Investment Property with Reference To IND AS 40" for International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management (ICCEEM) 2019, organized by St. Xavier's College(Autonomous) Kolkata in collaboration with Bengal National Chamber of Commerce and Industry on 13th and 14th September, 2019.

15. "Homomorphic Encryption For Business Data Security In Cloud" for International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management (ICCEEM) 2019, organized by St. Xavier's College(Autonomous) Kolkata in collaboration with Bengal National Chamber of Commerce and Industry on 13th and 14th September, 2019.

16. **"Science Fiction as an advisor in Modern Day Education and Business Sector"**, in International Conference on Emerging Trends in Science and Technology -TechMeet 2020 (August), organized by Pailan Group of Institutions.

17. **"The utility of regional language facility in accounting software for retail market of West Benga**l", in International Conference on Emerging Trends in Science and Technology -TechMeet 2020 (August), organized by Pailan Group of Institutions.

18. "**A Review of the Revolutionizing Role of Big Data in Retail Industry",** in International Conference on Emerging Trends in Science and Technology -TechMeet 2020 (August), organized by Pailan Group of Institutions.

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