



Mahua Basu

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Education

Ph.D, VisvaBharati University,
Dept. of Environmental Studies.

M.Phil, Burdwan University,
Environmental Sciences.

B.Ed, University of Calcutta.

Master in Science (Zoology) with specialization in
Animal Physiology and Biochemistry,
Calcutta University.

Bachelor in Science, Honours in Zoology,
Bethune College, Calcutta.

Biographical Sketch

Besides academic activities of teaching and research, actively involved in community based social services and counseling of the under privileged women, evoking in them awareness about the importance of education and need of being self-supportive, to live a

life of dignity and self-respect. With the background education in Life Sciences and Environmental Sciences, the nature of community based work centers around various environmental and health issues like personal hygiene, household waste management, afforestation and greening programmes, water conservation, prevention of contagious diseases, vaccination and anti-smoking campaigns. A passionate learner of Indian Classical dance forms and Bengali Theatre; these forms of expression help to tie a close knot between the theoretical knowledge with practical application towards sustainable development.

Research Interest

Toxicology: Toxicity of synthetic products and role of natural products as detoxifiers against environmental pollutants.

Title of Ph.D topic:“Modulating neurotoxic effects of chlorpyrifos by a naturally occurring coumarin scopoletin”

Teaching Experience

St. Xavier’s College, Calcutta:Teaching at present since 1997.

VisvaBharati University: Honorary lecturerfor Post-Graduation students of Environmental Science, 2014 and 2015.

ShriShikshayatan College, Calcutta: 2002-2011.

Bethune College: 1995-2003.

Guest lecturer in J.D Birla Institute, Department of Management, 2018.

Subjects Taught: Served as a faculty in Zoology and at present as a faculty in Environmental Studies.

Curricular and Societal Activities:

1. Part of the cast in the documentary film titled "*Where water is*" by ETL, Collegeville, Minnesota.

Extending the Link - Water Documentary (Trailer) 2018 - YouTube

<https://www.youtube.com/watch?v=8svb07IH6no>

Extending the Link: NibiEteg - Where the Water is (2018)

<https://www.youtube.com/watch?v=By58jlBw0II>

2. Interviewed by Hindustan Times that was published in HT Woman's World titled "*Kolkata's green warriors*", 10th August, 2014.

[https://www.Hindustan Times \(Kolkata\)\(2014-08-10\)_page2%20\(1\)%20\(2\).pdf](https://www.Hindustan Times (Kolkata)(2014-08-10)_page2%20(1)%20(2).pdf)

I. RESOURCE PERSON FOR SPECIAL LECTURES / INVITED LECTURES:-

1. Invited Lectures on '**Sustainable tools**', 2018 at J.D Birla Institute, Department of Management, Kolkata.
2. Speaker for Valedictory session on one day state level seminar on '**Conservation of Biodiversity**', 6th April, 2018, Department of Botany and Chemistry, ShriShikshayatan College, Calcutta.
3. "**Evaluation of Anti-Alzheimer activity of a naturally occurring coumarin**" in the Department of Chemistry, ShriShikshayatan College, Kolkata, March 30, 2016.
4. "**Important Environmental legislations in India**" in Department of Environmental Studies, SikshaBahvana, VisvaBharti University, Shantiniketan Saturday, November 22, 2014.

5. **"Important Negotiations, Treaties, Protocols in Environmental Protection"** in Department of Environmental Studies, SikshaBahvana, VisvaBharti University, Shantiniketan Saturday, November 15, 2014.
6. **"National Environmental Policies, MOEF, CPCB and the SPCBs"** in Department of Environmental Studies, SikshaBahvana, VisvaBharti University, Shantiniketan Saturday, November 08, 2014.
7. **"Environmental policies at International Level"** in Department of Environmental Studies, SikshaBahvana, VisvaBharti University, Shantiniketan Saturday, November 01, 2014.

II. PUBLICATION OF ARTICLES:-

A. PEER REVIEWED

INTERNATIONAL

1. Basu, M., Bala, S, Xavier, S, Mayana, K, Mishra, N. **"Effect of Scopoletin on monoamine oxidases and brain amines"**, *Neurochemistry International, Elsevier*, Volume 93, January 2016, Pages 113-117. ISSN No. **0197-0186**. Impact Factor: 3.092. www.elsevier.com/locate/nci;

SCImago Journal Rank (SJR): 1.162;

Indexed in: BIOSIS Elsevier BIOBASE Chemical Abstracts Current Contents/BIOMED Database Current Contents/Life Sciences Current Contents/SciSearch Database Current Contents/Science Citation Index MEDLINE® EMBASE PASCAL/CNRS Psychology Abstracts Research Alert Scopus

H Index: 89

2. Pandey, D.; Banerjee, S.; Basu, M.; Mishra, N., **"Memory enhancement by tamoxifen on amyloidosis mouse model"** *Hormones and behavior, Elsevier*, Volume 79, October 2015, Pages 70-73. ISSN No. 0018-506X. Impact Factor: 4.632.
www.elsevier.com/locate/yhbeh;
SCImago Journal Rank (SJR): 1.893,
Indexed in: Scopus.
H Index: 101
3. **"Acid Rain: An Overview"**. *Journal on "Modern Issues in Environmental Studies"*, Dept. Environmental Studies. May 15, 2014. St. Xavier's College (Autonomous), Kolkata. pp 9-11.
4. **"Rising Population: The Pivotal Issue"**, *Journal on "Modern Issues in Environmental Studies"*, Dept. Environmental Studies. May 15, 2014. St. Xavier's College (Autonomous), Kolkata. pp 22-25.
5. **"Tsunami and Earthquakes: The Tremors that Sweep You Away"** *Journal on "Modern Issues in Environmental Studies"*, Dept. Environmental Studies. May 15, 2014. St. Xavier's College (Autonomous), Kolkata. pp 33-37.
6. **"Nuclear Power Plants: The Efficient Danger Lurking"**, *Journal on "Modern Issues in Environmental Studies"*, Dept. Environmental Studies. May 15, 2014. St. Xavier's College (Autonomous), Kolkata. pp 38-44.
7. **"Industry - Academia Symphony; the Road to Sustainable Development"**. *"Environmental Stewardship and Corporate Social Responsibility"*. February, 2013. St Xavier's College (Autonomous), Kolkata. pp 10-11.

8. **"CSR: A Green Path or just another Red Signal"?** *"Environmental Stewardship and Corporate Social Responsibility"*. February, 2013. St Xavier's College (Autonomous), Kolkata. pp 16-17.

9. **"CSR - Is it Green or Greenwashing"?** *"Environmental Stewardship and Corporate Social Responsibility"*. February, 2013. St Xavier's College (Autonomous), Kolkata. pp 26-28.

10. **"CDM; Saving the World or watching it Burn"?** *"Environmental Stewardship and Corporate Social Responsibility"* February, 2013. St Xavier's College (Autonomous), Kolkata. pp 42-43.

11. **"CDM have money; will pollute"?** *"Environmental Stewardship and Corporate Social Responsibility"* February, 2013. St Xavier's College (Autonomous), Kolkata. pp 51-53.

12. **"Is India Rich enough to talk about CSR"?** *"Environmental Stewardship and Corporate Social Responsibility"*. February, 2013. St Xavier's College (Autonomous), Kolkata. pp 55-56.

13. **"Will Gulliver die a Guyver? The Boom of Environment Stewardship and its Fated Doom"**. *"Environmental Stewardship and Corporate Social Responsibility"*. February, 2013. St Xavier's College (Autonomous), Kolkata. pp 59-60.

14. **Anticonvulsant activity of *Benkaramalabarica* (Linn.) root extract: In vitro and in vivo investigation.** *Journal of Ethnopharmacology*. Elsevier, 24 March, 2010. Vol -128. No - 2. ISSN: 0378-8741. Impact factor: 2.998. 5-Year Impact Factor: 3.728
www.elsevier.com/locate/jethpharm;

SCImago Journal Rank (SJR): 1.069,

Indexed in: Scopus, CrossRef and PubMed.

Citations: 10

H Index: 129

- 15. Structure based virtual screening of GSK - 3 β : Importance of Protein flexibility and induced fit.** Bioorganic& Medicinal Chemistry Letters. Elsevier, 1st Oct, 2009.Vol -19. Issue - 19. pp 5582 – 5585. ISSN: 0960-894X.

Impact Factor: 2.554. 5-Year Impact Factor: 2.539

www.elsevier.com/locate/bmcl;

SCImago Journal Rank (SJR): 0.821,

Indexed in: BIOSIS Beilstein Database Biochemistry and Biophysics Citation Index CAB Health Cancerlit Chemical Abstracts Chemical Citation Index Current Contents/Life Sciences MEDLINE® EMBASE Pascal Research Alert SCISEARCH Science Citation Index ExcerptaMedica CAB Abstracts Elsevier BIOBASE/Current Awareness in Biological Sciences TOXFILE Adis LMS Drug Alerts Scopus;

Citations: 7.

H Index: 104

NATIONAL

1. VarunBajaja, MahuaBasub**“Corporate Social Responsibility: A Single or Multi-Layered Concept?”**, *Impetus, Youthink*, Department of Commerce, St. Xavier’s College (Autonomous), Kolkata, Volume 10, 2nd October, 2015. ISSN:2347-6222
2. **“The Enigma of Mitigation Policies”**, Two day National Seminar on *“Global Warming and Its social and Economic Effect”*, Commerce Department, Tarakeswar Degree College, Tarakeswar, Hooghly, West Bengal &Alpana Enterprise, Sinthee, Kolkata. Seminar Volume-1. pp 280-294. **ISBN 978-81-921382-3-7.**

3. **"Studies on the pollution of Damodar River at Burdwan with special reference to metals, COD and pH".** *"Nature Environment and Pollution technology"* 1(4). Technoscience Publications. pp 397-399, 2002. ISSN No. : 0972 6268
4. **"An account of *Diplocystisschneideri* Kunstler (1887) occurring in the haemocoel of domestic cockroaches in and around Calcutta".** *"Journal of Bengal Natural History Society"*. New Series. Vol. 17, No.1, pp 4-9, 1998. ISSN 0409-0756. HI 66569

B. NON-PEER REVIEWED

1. **"Cloning - A biological revolution".** Department of Science magazine, ShriShikshayatan College, Calcutta.
2. **"Alzheimer- the disease of the century".** Department of Science magazine, ShriShikshayatan College, Calcutta.

III. CONFERENCE PROCEEDINGS

INTERNATIONAL

1. **"Evaluation of anti-Alzheimer's activity of Scopoletin"** International Conference on *'Harnessing the sub-Himalayan Plant Diversity for Human Welfare'*; Dibrugarh University, Assam; 11th to 13th March, 2015. pp 51.
2. **"Water Sustainability Issues for India with its Social and Ecological Impacts",** Conference on Transformative Land and Water Governance, organized by Environmental Science for Social Change (ESSC), Pine Hills Hotel, Malaybalay City, Bukidnon, Philippines, 21-23 May, 2014. (Ref-page 14 in the pdf file)

3. **"Climate Change: The road ahead."***The environmental migrant - the human face of climate change", International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.pp 15-16.*
4. **"The Green Option: A change in Paradigm."***The environmental migrant - the human face of climate change", International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.pp 16-17.*
5. **"The Irony of Climate Refugees."***The environmental migrant - the human face of climate change", International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.pp 18-19.*
6. **"Climate Refugees."***The environmental migrant - the human face of climate change", International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.pp 21-22.*
7. **"Disaster Management Response to Climate Refugees."***The environmental migrant - the human face of climate change", International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.pp 24-25.*
8. **"Fighting the double Faced."***The environmental migrant - the human face of climate change", International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.pp 25.*

9. **"Exploring the molecular basis of monoamine oxidase inhibition by Scopoletin: a naturally occurring coumarin."** 12th International Congress of Ethnopharmacology, School of Natural Product Studies, Jadavpur University, Kolkata. 17-19 February, 2012.
10. **"Global warming and Water war"-An investigation into Humanity's waging war on nature for water."** International Conference on Global Climate Change Centre for Environmental Studies and Integrated Science Education and Research Centre, Siksha-Bhavana, Visva-Bharati, Santiniketan. 19-21 February, 2010.
11. **"Understanding the role of putative water molecule during Virtual screening of GSK- 3beta inhibitors: An in-silico study".** International Conference on "Lessons from the Microbial World". KIIT School of Biotechnology, University of Bhubaneswar, Orissa. 24th November, 2008.

NATIONAL

1. **'Climate Change and Weather Extremities'.** Two dayConference on'Environment and Climate Change'. Department of Multimedia in collaboration with Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 25th and 26th September, 2018. Volume 1, pg10-13.
2. **'The Anthropocene Climate change and sixth mass extinction- placing the planet under pressure'.**Two dayConference on'*Environment and Climate Change*'. Department of Multimedia in collaboration with Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 25th and 26th September, 2018. Volume 1, pg 22-33.

3. **"The Enigma of Mitigation Policies"**, Two day National Seminar on *"Global Warming and Its social and Economic Effect"*, Commerce Department, Tarakeswar Degree College, Tarakeswar, Hooghly, West Bengal&Seminar Volume-1.
4. **"India at 60- Glass is half-filled! whom to blame? Global warming or Multinational Companies?"** National Seminar on *"Economic Development with a human face"*, Jesuit Economic Association of India in Collaboration with St. Xavier's College (Autonomous), Kolkata, 27th February, 2010.
5. **"Effect of heavy metals on Bacillus sp. Isolated from contaminated site"**. National Seminar on **"Pollution in Urban Industrial Environment"**. St. Xavier's College, Calcutta in association with Institute of Ecotoxicology and Environmental Sciences. 10th and 11th December, 2005.

IV. BOOKS

1. Author of **"Fundamentals of Environmental Studies"**; Publisher- Cambridge University Press; ISBN978-1-107-53617-3
2. MahuaBasu, Nibha Mishra, ArijitBasu, S.Balachandran, S. Xavier.**"Enzymatic Targets for Drug Discovery Against Alzheimer's Disease. Book Chapter: In Advances in Studies on Enzyme Inhibitors as Drugs".**Volume 2,pg 31-50,Nova Science Publishers, Inc., Hauppauge, NY, USA.Editor: Satya P. Gupta, ISBN: 978-1-53610-505-6

V. PAPER PRESENTATIONS

INTERNATIONAL

1. **"The Sun Of Goodwill: The Economic Benefits Of Clean Energy Transition".**
Loyola Institute of Sustainability Science; Mundelein Auditorium, Loyola University,
Chicago; March 17-19, 2016.
2. **"Evaluation of anti-Alzheimer's activity of Scopoletin".** Two day International
Conference on "Harnessing the sub-Himalayan Plant Diversity for Human Welfare";
organized by Dibrugarh University, Assam; 11th to 13th March, 2015.
3. **"Water Sustainability Issues for India with its Social and Ecological Impacts".**
Conference on Transformative Land and Water Governance, organized by
Environmental Science for Social Change (ESSC), Pine Hills Hotel, Malaybalay City,
Bukidnon, Philippines, 21-23 May, 2014. (Ref-page 14 in the pdf file)
4. **"Climate Change: The road ahead."** International Conference 'Global Earth
Summit- II'. Dept. of Environmental Studies, St Xavier's College
(Autonomous), Kolkata on 29th and 30th March, 2012.
5. **"The Green Option: A change in Paradigm."** International Conference 'Global
Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College
(Autonomous), Kolkata on 29th and 30th March, 2012.
6. **"The Irony of Climate Refugees."** International Conference 'Global Earth
Summit- II'. Dept. of Environmental Studies, St Xavier's College
(Autonomous), Kolkata on 29th and 30th March, 2012.
7. **"Climate Refugees."** International Conference 'Global Earth Summit- II'. Dept.
of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th
and 30th March, 2012.

8. **"Disaster Management Response to Climate Refugees."** International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.
9. **"Fighting The double Faced."** International Conference 'Global Earth Summit- II'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.
10. **"Exploring the molecular basis of monoamine oxidase inhibition by Scopoletin: a naturally occurring coumarin."** 12th International Congress of Ethnopharmacology, School of Natural Product Studies, Jadavpur University, Kolkata. 17-19 February, 2012.
11. **"Global warming and Water war"-An investigation into Humanity's waging war on nature for water."** International Conference on Global Climate Change Centre for Environmental Studies and Integrated Science Education and Research Centre, Siksha-Bhavana, Visva-Bharati, Santiniketan. 19-21 February, 2010.
12. **"Understanding the role of putative water molecule during Virtual screening of GSK- 3beta inhibitors: an in-silico study".** International Conference on "Lessons from the Microbial World". KIIT School of Biotechnology, University of Bhubaneswar, Orissa. 24th November, 2008.

NATIONAL

1. **"The Enigma of Mitigation Policies",** Two day National Seminar on "Global Warming and Its social and Economic Effect", Tarakeswar Degree College, Tarakeswar, Hooghly, West Bengal, 2nd-3rd, December, 2014. Seminar Volume-1.

2. **"India at 60- Glass is half-filled! whom to blame? Global warming or Multinational Companies?"** National Seminar on Economic Development with a human face, Jesuit Economic Association of India in Collaboration with St. Xavier's College (Autonomous), Kolkata. 27th February, 2010.

STATE

1. **"A Few threatened Primates"**. State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.
2. **"The lonely Tiger"**. One day State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.
3. **"Coral reef conservation"**. One day State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.
4. **"Armadillo"**. One day State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.
5. **"Philippine Hornbills"**. One day State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by

ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.

6. **"Sorry we can't find Pandas"**. One day State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.
7. **"The owlet Nightjar"**. One day State level Seminar on 'Conservation of Biodiversity: Impact, Challenges and Management' organized by ShriShikshayatan College, Department of Botany and Chemistry, Kolkata. 6th April, 2018.

VI. SEMINAR PARTICIPATIONS

INTERNATIONAL

1. Two day UGC- sponsored International Conference on **"Innovative business practices in a VUCA world"** organized by the Department of Commerce and Business Administration, St. Xavier's College (Autonomous), Kolkata in collaboration with the Department of Commerce, University of Calcutta, 5th and 6th January, 2018.
2. Two day International Conference on **"Emerging perspectives in Commerce Economics and Management- Policies for a better world"** organized by the Department of Commerce and Business Administration, St. Xavier's College (Autonomous), Kolkata in collaboration with St. Xavier's University, Kolkata, 2nd and 5th November, 2017.

3. Inertia Take 4, **"Marketing of Indian Cinema Worldwide"** organized by the Department of Management (Faculty of Commerce), St. Xavier's College (Autonomous), Kolkata, 26th and 27th March, 2014.
4. "International Seminar on Science & Religion", **"The Unknowable and the Counterintuitive"**, Dept. of Environmental Studies, St. Xavier's College, Kolkata. 8th July, 2013.
5. Participation in Inertia' 13, **The Global Entrepreneur, an International Marketing Summit** by St. Xavier's College, Department of Management, B.Com on 12th and 13th of April 2013.
6. A two day International Conference **'Global Earth Summit- II'**. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 29th and 30th March, 2012.
7. A three day International Congress of Ethnopharmacology on **"Traditional Medicines and Globalization – The Future of Ancient Systems of Medicine"**. 12th International Congress of Ethnopharmacology, School of Natural Product Studies, Jadavpur University, Kolkata. 17-19 February, 2012. Paper presented on **"Exploring the molecular basis of monoamine oxidase inhibition by Scopoletin: a naturally occurring coumarin."**
8. A two day International seminar on **"Search for Holistic Combination of Agriculture, Industry and Education"**. Dept. of Commerce, St Xavier's College (Autonomous), Kolkata and Netaji Nagar College, Kolkata on 8th December, 2011.
9. A two day conference on **"Environment and Energy Conclave 2011"**. Bengal Chamber Of Commerce on 26th August 2011 –27th August, 2011.

10. A two day International Conference '**Global Earth Summit- I**'. Dept. of Environmental Studies, St Xavier's College (Autonomous), Kolkata on 11-12 February, 2011.
11. A two day International Marketing Summit "**Driving Momentum in Marketing Paradigm**". Dept. of Management, Commerce, St Xavier's College (Autonomous), Kolkata on 28th -29th January, 2011.
12. A two day conference on "**Environment and Energy Conclave 2010 From Copenhagen to Mexico: Business Sustainability in Emerging Scenarios**". Bengal Chamber Of Commerce. 27th and 28th August, 2010.
13. International Conference on "**Global Climate Change**". Centre for Environmental Studies and Integrated Science Education and Research Centre, Siksha-Bhavana, Visva-Bharati, Santiniketan. 19th -21st February, 2010.

NATIONAL

1. UGC Sponsored National Symposium on "**Overcoming Challenges for Sustainable Corporate Excellence**", Dept. Of Commerce(UG & PG) and Business Administration, St. Xavier's College (Autonomous), Kolkata with support from Indian Council of Social Science Research (ICSSR); 21st March, 2015.
2. Two day UGC sponsored National Seminar on "**Global Warming and Its social and Economic Effect**", Tarakeswar Degree College, Tarakeswar, Hooghly, West Bengal, 2nd-3rd, December, 2014.

3. UGC Sponsored National Conference on **“Re-imaging India: Challenges and Opportunities in Finance, Management and Policy –making (within an Analytical Framework)”**; Dept. Of Commerce and Business Administration, St. Xavier’s College (Autonomous), Kolkata in collaboration with IMI, Kolkata; 19th-20th September, 2014 at St. Xavier’s College (Autonomous), Kolkata.
4. UGC sponsored National Conference organized by Department of Commerce and Business Administration, St. Xavier’s College, Kolkata in collaboration with ShriShikshayatan College, Kolkata on **“Inclusive Growth, business and environment in India in India’s emerging economy”** on 6th and 7th of April, 2013.
5. A two day UGC sponsored Seminar on **“Financial Reporting: A Changing Paradigm”**. Dept. of Commerce and Business Administration, St Xavier’s College (Autonomous), Kolkata on 3rd and 4th February, 2012.
6. A two day conference of **Bengal Economic Association**, St. Xavier’s College (Autonomous), Kolkata on 12th – 13th February, 2011.
7. UGC sponsored National Level Seminar on **“Governing Business in the 21st Century – Opportunities and Challenges”**. St. Xavier’s College (Autonomous), Kolkata in collaboration with Bengal Economic Association. 20th and 21st November, 2009.
8. UGC sponsored National Seminar on **“Challenges and Opportunities in Commerce Education – A new paradigm”**. St. Xavier’s College (Autonomous), Kolkata. 2nd May, 2009.

9. UGC sponsored National Level Seminar on **“Stress, Drug Development and Nanotechnology”**. Bethune College, Calcutta in collaboration with Bose Institute, Calcutta. 5th and 6th March, 2009.
10. National Seminar on Economic Development with a human face, Jesuit Economic Association of India in Collaboration with St. Xavier’s College (Autonomous), Kolkata and presented a paper on **“India at 60- Glass is half-filled! Whom to blame? Global warming or Multinational Companies?”** 27th February, 2010.
11. National Seminar on **“Pollution in Urban Industrial Environment”**. St. Xavier’s College, Calcutta in association with Institute of Ecotoxicology and Environmental Sciences. 10th and 11th December, 2005.
12. UGC sponsored National Seminar on **“Science, Literature and Social Science in the perspective of the present. Phase I: New Frontiers of Basic and Applied Sciences”**. Bethune College, Calcutta. February 6th and 7th, 2004.
13. **“National Symposium on Perspective in Biodiversity”**. The Zoological Society, Calcutta. 24th and 25th March, 1995.

REGIONAL

1. CSE’s two day conference on **Regional Knowledge Conclave** for Colleges and Universities, Kolkata, 24th and 25th August, 2017.
2. UGC sponsored Regional Level Seminar on **“Sustainable Development and Corporate Social Responsibility”**. ShriShikshayatan College, Calcutta. 2nd and 3rd December, 2005.

STATE

1. UGC sponsored State Level Seminar on **“Chemistry and Environment”** by Jogesh Chandra College, Kolkata in collaboration with South Calcutta Dist. Committee WBCUTA. 12th September, 2009.
2. UGC sponsored State Level Seminar on **“Governing business in the 21st century- Opportunities and challenges”**. St. Xavier’s College (Autonomous), Kolkata in collaboration with BEA. 20th- 21st November, 2009.

VII. WORKSHOPS

1. **Workshop participation on Overview of Stock Exchange by St. Xavier’s College, B. Com E,** St.Xavier's College, Kolkata **in collaboration with** National Stock Exchange of India Limited on 14 March, 2013.
2. Inter Disciplinary Workshop on **“Recent Concerns in Environmental Issues”**. St Xavier’s College (Autonomous), Kolkata.
3. Attended a two-day workshop on **“Global Warming”**. Techno India, Kolkata, 12-13 March 2010.
4. **“The National Workshop on Environmental Pollution and Its Management”**. Dept. of Metallurgical Engineering and University Science Instrumentation Centre, Jadavpur University, Calcutta. 26th – 29th November, 1997.

VIII. ORIENTATION AND FACULTY DEVELOPMENT PROGRAMME (FDP)

1. UGC sponsored Refresher Course from 7th January, 2019 to 30th January, 2019 organized by UGC HRDC Jadavpur University, Kolkata.
2. Faculty development Programme. St Xavier's College (Autonomous), Kolkata on 28th of April, 2017 on 'State of the Indian Economy'.
3. 59th UGC sponsored Orientation Programme from 26th November 2015 to 23rd Dec, 2015 organized by UGC HRDC Jadavpur University, Kolkata.
4. Faculty Improvement Programme. St Xavier's College (Autonomous), Kolkata on July, 2013.
5. Faculty Improvement Programme. St Xavier's College (Autonomous), Kolkata on Jan, 2013.
6. Faculty Improvement Programme. St Xavier's College (Autonomous), Kolkata on 7th July, 2012.
7. Faculty Development Programme, Dept. of Commerce, St Xavier's College (Autonomous), Kolkata, on 17th September, 2011.
8. Faculty Development Programme, St Xavier's College (Autonomous), Kolkata, on 19th February, 2011.

IX. INDUSTRIAL VISITS/EDUCATIONAL TOURS

1. 19th March, 2013- Vikram Solar, SEZ, Falta
2. 11th and 14th March, 2014- IGWT Plant, Palta, Barrackpore
3. 25th February, 2015- Vikram Solar, SEZ, Falta
4. 1st April, 2016 - Nextgen Printers Pvt.Ltd, Dhulagarh

