

Name: Arunabha Mukhopadhyay

1. Education

Year	Degree	Institute
2007	Fellow Programme in Management(FPM)	Indian Institute of Management Calcutta
2001	Post Graduate Diploma in Business Management (PGDBM)	Indian Institute of Management Calcutta
1998	Master of Science (MSc) (Gold Medallist)	Jadavpur University

2. Work Experience

From	To	Designation	Institute	Courses taught
2017	Till date	Professor	IIM Lucknow	MIS, BDC, EITRM, ADCN
2012	2017	Associate Professor	IIM Lucknow	MIS, BDC, EITRM, ADCN
2006	2012	Assistant Professor	IIM Lucknow	MIS,BDC, ADCN

MIS=Management Information Systems; BDC= Business Data Communications; EITRM= Enterprise IT Risk Management; ADCN= FPM course: Advanced Data Communications and Networking for business;

3. Publications

3.1 Peer Reviewed Journal Articles

1. Mukhopadhyay, A., Chatterjee, S., Saha, D., Mahanti, A. and Sadhukan, S. K. (2013). Cyber-Risk Decision Models: To Insure IT or Not? *Decision Support Systems*, 56(1), 11–26, Elsevier. [A* Journal]
2. Mukhopadhyay, A., Chatterjee, S., Bagchi, K., Kris, P., Shukla, G.K. (2017). Cyber Risk Assessment and Mitigation (CRAM) Framework Using Logit and Probit Models for Cyber Insurance Information Systems Frontier. <https://doi.org/10.1007/s10796-017-9808-5>, Springer. Available online [A Journal]
3. Das, S., Mukhopadhyay, A., Saha, D. and Sadhukan, S. K. (2017). A Markov-Based Model for Information Security Risk Assessment in Healthcare MANETs. *Information Systems Frontier*. <https://doi.org/10.1007/s10796-017-9809-4>, Springer. Available online [A Journal]
4. Biswas, B., Mukhopadhyay, A. (2018). G-RAM Framework for Software Risk Assessment and Mitigation Strategies in Organizations. *Journal of Enterprise Information Management*. Emerald. 31(2),276-299. [B Journal]
5. Das, S., Mukhopadhyay, A., Bagchi, K. (2014). National-level determinants of global music piracy and online music sales: an exploratory study. *Journal of Global Information Technology Management*, 17(1), 6-25, Taylor and Francis [B Journal]
6. Pal, S., Mukhopadhyay, A (2017). A Machine Learning Approach for Telemedicine

- Governance, ISACA Journal 1, 37-45 [**C Journal**]
7. Biswas, B., Mukhopadhyay, A. (2017). Phishing Detection and Loss Computation Hybrid Model: A Machine-learning Approach, ISACA Journal 1, 22-29 [**C Journal**]
 8. Bagchi K, Mandal P, Mukhopadhyay A (2011) *Attitude towards technology development: a cross-cultural study of India and the USA*, International Journal of Information Systems and Change Management (IJISCM), Vol 5, Issue 1. [**C Journal**]
 9. Mukhopadhyay A, Saha D, Mahanti A, Chakrabarti B B, Podder A. (2005) *Insurance for cyber-risk: A Utility Model*, Decision Vol 32, No 1 [**C1 Journal**]
 10. Mukhopadhyay A, Chakrabarti B.B., Podder A (2004). *Derivatives and Inflation-Indexing of Pension in India* IIMB Management Review, Vol 16, No 3, Sep- June 2004. [**C1 Journal**]
 11. Mukhopadhyay A, Chakrabarti B B., Podder A (2004). *Pensions and Inflation –Indexed Bonds: Study of the Indian Scenario*, The ICAI Journal of Applied Finance Vol 10, No 11. [**C1 Journal**]
 12. Das, S., Mukhopadhyay, A., Anand, M. (2012). The stock Market response to public announcement of information security breach on a firm: An Exploratory study using firm and attack characteristics. Journal of Information Privacy and Security (JIPS), 7(4).
 13. Das S, Mukhopadhyay A (2011) *Security and Privacy Challenges in Telemedicine*, CSI-Communications Vol 35, Issue 8, CSI- India
 14. Mukhopadhyay A, Mukherjee S, Mahanti A. (2011) *Artificial Immune System for detecting online credit card frauds*, CSI- Communications, Vol 35, Issue 9, CSI- India

3.2 Cases

1. Kiran, R., Mukhopadhyay, A., Unnikrishnan, D.K, (2017), Machine Learning Algorithms to Drive CRM in the Online E-Commerce Site at VMWare, IMB 621, Harvard Business Publishing Case Portal.
2. Das, S., Mukhopadhyay, A. & Bhasker, B. (2013). Today's Action is better than Tomorrow's Cure - Evaluating Information Security at a Premier Indian Business School, Journal of Cases on Information Technology (JCIT) ,15(3), pp.01-22

3.3 Newspaper Article

Mukhopadhyay A, Sridhar V,(2012) Wireless broadband for rural health service, The Financial Express, 3/1/2012.

3.4 Peer Reviewed Proceedings & Paper Presentation

- 1 Pal S, Mukhopadhyay A, Biswas B(2018), Framework to explain factors affecting severity of exposure of medical data breach: a statistical analysis, Proceedings of the 24th Americas Conference on Information Systems (AMCIS), August 16–18, New Orleans USA.
- 2 Pal S, Mukhopadhyay A(2018),Cyber Risk Quantification and Mitigation Framework for healthcare using machine learning, Proceedings of the 24th Americas Conference on Information Systems (AMCIS), August 16–18, New Orleans USA.
- 3 Mukhopadhyay A, Biswas B (2018), C-R-P-M-I: A framework to model cyber risk from phishing and propose mitigation through insurance, Proceedings of the 24th Americas Conference on Information Systems (AMCIS), August 16–18, New Orleans USA.
- 4 B Biswas, Mukhopadhyay A, G Gupta (2018), " Leadership in Action: How Top Hackers Behave" A Big-Data Approach with Text-Mining and Sentiment Analysis, Proceedings of the 51st Hawaii International Conference on System Sciences(HICSS), USA.
- 5 Bala H, Venkataraman R, Bhagwatwar A, Mukhopadhyay A (2018), DIGITS, New Delhi
- 6 Biswas. B, Mukhopadhyay A, Dhillon, G. (2017). GARCH-based risk assessment and

- mean-variance-based risk mitigation framework for software vulnerabilities Proceedings of the 23rd Americas Conference on Information Systems (AMCIS), August 10–12, Boston USA.
2. Biswas B., Pal S., Mukhopadhyay A. (2016). AVICS-Eco framework: An approach to attack prediction and vulnerability assessment in a cyber-Ecosystem. Proceedings of the 22nd Americas Conference on Information Systems. August 10–12, San Diego, CA, USA
 3. Pal S., Biswas B., Mukhopadhyay A. (2016) Can HIT Work Alone? A Security and Socio-Economic Perspective of Healthcare Quality Proceedings of the 22nd Americas Conference on Information Systems. August 10–12, San Diego, CA, USA.
 4. Tripathi M., Mukhopadhyay A., Bose I. (2015) An IT Risk-Return Model to Study IT Governance of Indian Firms. In: Sugumaran V., Yoon V., Shaw M. (eds) E-Life: Web-Enabled Convergence of Commerce, Work, and Social Life. Proceedings of the WEB 2015. Lecture Notes in Business Information Processing, vol 258. Springer, Cham
 5. Tripathi M, Mukhopadhyay A, A study of most vulnerable paths in a computer network using various path finding algorithm, DigiGov-2014, Computer Society of India (CSI), Lucknow Chapter, December 06-07, 2014.
 6. Mukhopadhyay, A., Das, S., & Sadhukhan, S. (2013). Vulnerable Path Determination in mobile ad-hoc networks using Markov Model. Proceedings of the 19th Americas Conference on Information Systems (AMCIS), August 15–17, Chicago, Illinois, USA.
 7. Das, S., Mukhopadhyay, A., & Shukla, G. (2013). i-HOPE Framework for Predicting Cyber Breaches: A Logit Approach. Proceedings of the 46th Hawaii International Conference on System Sciences (HICSS), January 7–10, Hawaii, USA.
 8. Das, S., Mukhopadhyay, A., & Bagchi, K. (2012). An exploratory analysis of the factors affecting global music piracy and online music sales. Proceedings of 13th Annual Global Information Technology Management (GITMA) World Conference, June 17-19, Bangalore, India.
 9. Bagchi K, Mukhopadhyay A, Das S, Anand M., (2012). The impact of Information and Communication Technologies on Informal Economy: A National- level study, 18th Proceedings of Americas Conference on Information Systems (AMCIS), 20 August 9-12, Seattle, Washington
 10. Srivastava S, Mukhopadhyay, A, (2012) AIS for Intrusion Detection in VoIP over LAN, 47th Annual Convention 2012 (CSI -2012) Hosted by Kolkata Chapter, 1-2 December.
 11. Das S., Mukhopadhyay A, Anand M, The stock Market response to public announcement of information security breach on a firm: An Exploratory study using firm and attack characteristics. Pre-ICIS Workshop on Modelling and Simulation of Information Privacy and Security Issues, Orlando, Florida, 2012.
 12. Das, S., Mukhopadhyay, A., & Anand, M. (2011). Determining the stock market response to public announcement of an information security breach using firm and attack characteristics. Proceedings of the 9th Annual Conference on Information Science, Technology & Management in a Virtualized World (CISTM), May 13-14, Pontifícia Universidade Católica do Rio Grande do Sul, Brazil.
 13. Das, S., & Mukhopadhyay, A. (2011). Managing dwindling online music sales : Analysing Factors affecting global music piracy. Proceedings of the 11th International Conference on Electronic Business (ICEB2011), November 30-December 2, Thammasat Business School, Thammasat University in Bangkok, Thailand
 14. Das, S., & Mukhopadhyay, A. (2011). A framework for determining the hacker's most probable path in a wireless telemedicine network using Markov Model. Proceedings of the 8th International Conference on E-Governance (ICEG 2011), October 17-18, Institute of Management, Nirma University, Ahmedabad, India (Received Third best paper award).
 15. Bhasker A, Mukhopadhyay A, (2011) A framework for analysing Security Issues in Wireless Networks, 4th International Conference of Data Management, Nov 17-19, New Delhi
 16. Das S, Mukhopadhyay A, (2011) Managing Information Security at a Management

- Institute, International Case Conference, Nov,3-5,Goa, India
- 17 Das S, Mukhopadhyay A, (2011) A Framework for Managing Security and Privacy Risks in UID Aadhaar, National Conference Organized by Computer Society of India, Lucknow Chapter on Impact of Aadhaar (Unique ID) in Governance, Dec 10-11, Lucknow
 - 18 Mukhopadhyay A, (2010) mHealthcare in India: Technology and business model, Proceedings of ICEG conference April, bangalore.
 - 19 Aithal R K, Mukhopadhyay A, Maurya H and Utkarsh,(2010) Empirical evidence from Indian FMCG Companies on adoption of sales force automation (SFA) by Individual salespersons ,Proceedings of Fourth Great Lakes-NASMEI Marketing Conference, December 23-24.
 - 20 Mukhopadhyay A , Mohanty B K, ,(2010) A linguistic fuzzy model for e-risk assessment, Proceedings of Americas Conference on Information Systems (AMCIS), Lima, Aug 12-15.
 - 21 Mukhopadhyay A, Shukla G K, (2009) Mitigating security breaches through insurance: Logit and Probit models for quantifying e-risk, Proceedings of Americas Conference on Information Systems (AMCIS), San Francisco, Aug 6-9
 - 22 Ganguly B, Dash S, Mukhopadhyay A, (2009) The effects of website characteristics on trust in online travel portals: The moderating role of demographics and psychographics variables. An empirical study in the Indian context, Proceedings of the travel conference, IIM Lucknow
 - 23 Aithal R, Mukhopadhyay A, (2009) Adoption of Sales Force Automation (SFA) by individual salesperson: issues for research in Indian companies, International Conference on Technology and Innovation in Marketing, February, Chennai.
 - 24 Mukhopadhyay A, Dhillon G, (2008) Software Piracy in India: Analysis of it causes, impact and mitigation strategies, Proceedings of the Conference on Information Systems and Technology Management (CISTM), New Delhi, July 2008
 - 25 Ganguly B, Dash S, Mukhopadhyay A, (2008) Influences of product type and customer demographics on the antecedents and consequences of Trust in online shopping: A Review and Research agenda, Proceedings of the Conference on Information Systems and Technology Management (CISTM), New Delhi, July 2008
 - 26 Mukhopadhyay A, Aithal Rajesh, (2008) Rural telephony a need for effective marketing to ensure better e-governance, Proceedings of ICEG conference Dec 2008.
 - 27 Mukhopadhyay A, Aithal Rajesh, (2008) RFID tags and its implications to Indian retail, Proceedings of ICITM
 - 28 Mukhopadhyay A, Dhillon G, (2007) Developing a vulnerability assesment metric for mitigating risks in organizations, Proceedings of the workshop on Information Security and Privacy (WISP 2007), ICIS 2007, Montreal, Decemeber 8-12, 2007.
 - 29 Mukhopadhyay A, Chatterjee S, Saha D, Mahanti A, Sadhukhan S K, (2007) Tiered approach for mitigating big security losses: A variance reduction model, Proceedings of the Americas Conference on Information System (AMCIS) 2007, Colarado, August 9-12, 2007.
 - 30 Mukhopadhyay A, Chatterjee S, Saha D, Mahanti A, Roy R, Sadhukhan S K, (2007) Insuring big losses due to security breaches through insurance: A business model, Proceedings of the Hawaii International Conference on System Sciences (HICSS) 40, Hawaii, January 3-7, 2007.
 - 31 Mukhopadhyay A, Chakrabarti B B, Saha D, Mahanti A, Roy R, Sadhukhan S K (2007) , e-risk management through self- insurance: An option model, Proceedings of the Hawaii International Conference on System Sciences (HICSS) 40, Hawaii, January 3-7, 2007.
 - 32 Aithal R, Mukhopadhyay A, (2007) Rural Telecom in India: Marketing issues and experiences from other countries, ICEG conference.
 - 33 Mukhopadhyay A, Dhillon G, (2007) Ensuring Corporate Social responsibility through Insurance, Proceedings of the Conference on Information Systems and Technology management(CISTM), Hyderabad, July 2007

- 34 Mukhopadhyay A, Chatterjee S, Saha D, Mahanti A, Sadhukhan K S,(2006) e-Risk Management with Insurance: A framework using Copula aided Bayesian Belief Networks, Proceedings of the Hawaii International Conference on System Sciences (HICSS) 39, Hawaii, January 3-7.
- 35 Mukhopadhyay A, Chatterjee S, Saha D, Mahanti A, Podder A K, (2005) e-risk: A case for insurance, Proceedings of the Conference on Information Systems and Technology Management (CISTM), New Delhi, July 23-26, 2005.
- 36 Mukhopadhyay A, Chatterjee S, Saha D, Mahanti A, Chakrabarti B B, Podder A K,(2005) Mitigating Security breach losses in e-commerce through Insurance, Proceedings of 4th Security Conference, Las Vegas, Nevada, March 30-31, 2005.
- 37 Mukhopadhyay A, Chakrabarti B B, Podder A, (2003) Pensions and Inflation-Indexed Bonds: Study of the Indian Scenario, Proceedings of the International Conference 2003 on Business & Finance, Vol -III, Hyderabad, December 15-16.

3.5 Working Papers (IIM Calcutta)

- 1 Mukhopadhyay A, Saha D, Mahanti A, Chakrabarti B B, Podder A, (2005) e-risk Mitigation a case for Insurance, WPS-537, January 2005, (IIM Calcutta).
- 2 Mukhopadhyay A, Saha D, Mahanti A, Podder A, Chakrabarti B B, (2005) Mitigating Security Breach Losses in e-commerce through Insurance, WPS-538, January (IIM Calcutta).
- 3 Mukhopadhyay A, Saha D, Mahanti A, Chakrabarti B B, Podder, (2004) Mitigating e-risk through Insurance, WPS-524, October (IIM Calcutta).

3.6 Completed PhD/FPM Guidance

Guided the following FPM students at IIM Lucknow:

Name of FPM Student	Phd Topic	Role	Status
Manas Tripathi	A framework for IT risk management and IT Governance for organizations	Advisor	Graduated in 2018
Saini Das	A framework for modelling Information Security Risks in an Organization	Advisor	Graduated in 2013
Faiz Hamid	A polyhedral approach for solving two facility network design problem	Co-Advisor	Graduated in 2013
Boudyan Ganguly	The Antecedents and Consequences of trust in online shopping: The moderating effect of product type, culture, customer psychographics, and demographics.	Co-Advisor	Graduated in 2010

4. Research

4.1 Research Interests

1. IT Risk Management,
2. Quantitative techniques in uncertainty management,
3. Cyber-risk management through insurance, E-risk insurance product design,

4. Business models for cyber-risk insurance companies,
5. Network security,
6. IT Governance,
7. Tele-medicine
8. E-governance.
9. Network Science

5. Other Research Activities

5.1 Editorial Activities

Editorial Activity	International	National
Reviewer of Journals	<ul style="list-style-type: none"> • MIS Quarterly (MISQ) • Decision Support Systems and Electronic Commerce(DSS) • Information & Management • Communication of the Association of Information System (CAIS) • Journal of Global Information Technology Management (JGITM) • International Journal of Information Management (IJIM) • Journal of Information System Security(JISS) • Journal of Business Data Communications and Networking (JBDCN) • Information Technology & People • The Database for advances in Information Systems • Information Systems Frontier (ISF) 	<ul style="list-style-type: none"> • Metamorphosis, IIM Lucknow Journal • Vikalpa, IIM Ahmedabad Journal • Decision, IIM Calcutta journal • IIMB review, IIM Bangalore journal • Indore Management Journal, IIM Indore Journal
Reviewer of Conference Papers	<ol style="list-style-type: none"> (1). ICIS 2016,2017 2015,2014,2013, 2012,2011, 2008 (2). AMCIS 2013 - 2017 (3). HICSS 2008,2009,2012-2016 (4). PACIS 2013,2014,2015,2016 (5). Pre-ICIS Workshop of Information Security and Privacy (WISP), 2007,2015,2016 (6). Pre-ICIS Workshop of Information Technology and Systems (WITS), 2013-2016 	
Judge		CSI-Nihilent e-Governance Awards, 2009

5.2 Invited Talks

Year	Organization	Programme	Topic of Seminar/Talk
<i>International</i> 17 Dec 2015	Information	and Research Talk on invitation	<i>Cyber-risk decision models: To</i>

		Decision Sciences Department College Of Business Administration, University of Texas, EL Paso.	from Prof Kallol Bagcchi	<i>Insure IT or not</i>
28- 31 May 2013		School of Computing, National University of Singapore (NUS)	Summer School organized by School of Computing, National University of Singapore (NUS)	<i>Cyber Security and Risk Management</i>
Aug 2009		Claremont Graduate University (CGU), School of Information Systems & Technology, USA	Course: Cryptography and Computer security (Course Instructor: Prof Samir Chatterjee)	<i>E-risk mitigation through insurance"</i>
Aug 2007		Virginia Commonwealth University (CGU)	Research presentation on invitation from Prof Gurpreet Dhillon	<i>Cyber-security issues</i>
<u>National</u>				
3 Nov 2017		Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow,	35 th National Conference on Medical Statistics	<i>Role of ICT in Healthcare</i>
10 Feb 2017		Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow,	Workshop on Role of ICT in Healthcare	<i>Role of MIS in Health Care Institutes</i>
24 Apr 2017		International Centre for Information Systems and Audit (ICISA)	<i>Role of MIS in Health Care Institutes</i>	<i>e-governance in India</i>
9 May 2015		IIM Ahmedabad	4th IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence	<i>Panel Discussion: Analysis of New Data: Statistical Challenges and Opportunities"</i>
20 Jan 2015		Central Industrial Security Force (CISF)	Workshop on "Cyber-Security in India- New Challenges for the CISF"	<i>Cyber security- Role of various stake-holders</i>
22-23 Dec 2014		IIM Indore	International Conference on Information Systems Research and Teaching(ICISRT 2014)	<i>Cyber risk decision models: To Insure IT or not?</i>

18 Dec 2014	Bankers Institute of Rural Development (BIRD), Lucknow	National Workshop on Cyber- crime & Prevention" for bankers	<i>Cyber Security and Risk Management</i>
6-7 Dec 2014	National Conference on Digi-Gov	National Conference on Digi-Gov	<i>Managing Cyber-risk</i>
20 Nov 2014	Lal Bahadur Shastri Institute of Management and Development Studies (LBSIMDS)	Workshop on Impact of Technology in Online Retail	<i>Future Technologies for Online Retail</i>
2 Sept 2014	Bankers Institute of Rural Development (BIRD), Lucknow	National Workshop on Cyber- crime & Prevention" for bankers	<i>Cyber Security and Risk Management</i>
Jan 2013	Commercial Tax Officers Training Institute, Lucknow	Induction Course for Newly Appointed Assistant Commissioners	<i>Human Resource Development: A critical denominator in crafting e-governance structure</i>
29-30, Nov 2012	TRAI, New Delhi	Workshop on "Next Generation Networks (NGN)".	<i>Panel Discussion: "Creating enabling environment for NGN"</i>
22-24 Jun 2012	University of Texas El Paso	Discussion on Research project with Prof Kallol Bagchi	
20-22 Jun 2012	Annual GMAC conference Chicago	at Represented IIM Lucknow to understand global testing process	
8 Dec 2011	Commercial Tax Officers Training Institute, Lucknow	Workshop on Impacts of Transition from VAT to GST, Need of Constitutional Amendment: An Analysis	<i>IT Strategy for Migration from VAT to GST</i>
25-26, Aug 2011	TRAI, New Delhi	Seminar on "Next Generation Networks (NGN)- Implementations and Implications	<i>Business case for NGN.</i>
13- 14 May 2011	Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow, (in collaboration with Centre for	Workshop on "Emerging technologies for collaborative health care for the nation"	<i>Session Chair for a track on "Network issues"</i>

	Development of Advanced Computing (C-DAC)		
14 Apr 2011	MNIT Allahabad, Department of Management	Research Seminar	<i>Methods in Management Research</i>
Jan 2010	SMS, Varanasi	Conference on Recent Global Development in Management	<i>Web 2.0 and business</i>
16 Apr 2010	IITCOE and ICRIER	Workshop on Research and Action Plan for National Broadband Initiative	
Oct 2009	Punjab National Bank Institute of Information technology(PNBIIT), Lucknow	Workshop for Circle Heads of PNB	<i>CRM for banks</i>
Mar 2009	IIM Calcutta	Course: Data Communications and Networking (Course Instructor: Prof Debashis Saha)	<i>Security is for managers too!!</i>
Oct 2008	Punjab National Bank Institute of Information technology(PNBIIT), Lucknow	Workshop for Circle Heads of PNB	<i>E-commerce-use in banking sector and risk associated thereof</i>
Feb 2008	Bankers Institute of Rural Development (BIRD), Lucknow	National Workshop on redefining Rural financial services	<i>Connectivity Solutions for rural financial services</i>
Sep 2006	Vinod Gupta School Of Management(VGSO M),IIT Kharagpur	Course: Electronic commerce and business (Course Instructor: Prof S K De)	<i>IT Governance</i>

5.3 Conference Committees and Organising Responsibilities

Conference Chairs/ Programme Committee Member/Track Chair

Conference	Year
Mini Track Chair at 24 th American Conference on Information Systems(AMCIS)	2018

Pacific Asia Conference on Information Systems (PACIS)	2015
23 rd , Workshop of Information Technology and Systems (WITS), International Program Liaison.	2013
14 th Global Information Technology Management Association(GITMA) Conference	2013
7 th Annual Midwest Association for Information Systems	2012
e-gov, Lucknow Chapter, Computer Society of India	2012
20 th European Conference on Information Systems	2011
International Conference of E-government (ICEG)	2012 - 2009
PERSUASIVE 2009, 4 th International Conference on Persuasive Technology	2009
Web 2009: 8 th Workshop on e-business (Pre-ICIS, 2009)	2009
Annual Conference on Information Science Technology and Management (CISTM)	2013,2009 - 2007

6. Training Assignments

6.1 MDP programme co-ordination/Programme Director

Year	Programme
<u>International</u>	
18 Mar 2015- 17 Mar 2016	Certificate Programme in Business Analytics for Business Executives in association with Kelly Business School, Indiana University, USA
22 Jan 2011 -3 Mar 2011	Advance Management Programme for Sr IES Officers. Overseas Learning Component: Australia (RMIT, UTS); China (Tshinghua and Nankai University)
<u>National</u>	
12 May 2014- 29 Mar 2015	General Management Programme for Executives
27 Oct -31 Oct 2014	Capacity Building for ITI Principals
9 Jun-13 Jun 2014	Capacity Building for ITI Principals
4 Feb -8 Feb 2013	Strategic use of IT for ONGC Executives
Apr 2012-Apr 2013	General Management Programme through virtual classroom, Reliance Platform
May 2011-Apr 2012	General Management Programme through virtual classroom, Reliance Platform
26 Apr -30Apr, 2010	The Management & Strategic Control of projects for NIC executives
20 Oct 2008 –3 Apr 2009	5 th Defence Officers General Management Programme

7. Awards and Memberships of Professional Bodies / Associations

7.1 Awards:

Year	Award
2018	Best IT & Systems elective for 2017-18, by Student's Council IIM Lucknow
2013	Best Teacher in Information Technology: DNA & Star group's Innovative B-School Awards, 2013
2011	19 th Dewang Mehta B School Award for Best Teacher in Information Technology
1996	Jadavpur University Gold Medal
1996	Promothonath Bose Memorial Award, Jadavpur University

7.2. Memberships

IS/IT/CS/ Telecommunications bodies	
International	[1] Association of Information Systems (AIS) [2] Institute of Electrical and Electronics Engineers (IEEE). [3] International Federation of Information Processing (IFIP) WG 11.1 [4] International Telecommunications Society (ITS) [5] Decision Sciences Institute (DSI) [6] Information Systems Audit and Control Association (ISACA) [Academic Advocate]
National	[1] Computer Society of India (CSI) [Life Member] [2] Special interest group: e-governance (SIGe-Gov) [3] Telemedicine Society of India (TSI) [Life Member] [4] Indian Science Congress Association (ISCA) [Life Member]
Management bodies	
National	[1] All India Management Association (AIMA) [Life Member] [2] System Dynamics Society of India (SDSI) [Life Member] [3] Operations Research Society of India (ORSI) [Life Member] [4] Association of Knowledge Workers Lucknow (AKWL) [Life Member]
Finance/ Insurance bodies	
National	[1] Institute of Actuaries India (IAI). [2] Indian Insurance Institute (III) [Life Member]
