

Curriculum Vitae

Dr S P Sarmah

Professor

Department of Industrial & Systems Engineering
Indian Institute of Technology, Khargapur
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India, 721302
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Professional Experience:

May, 2015 till date	Professor: Department of Industrial and Systems Engineering, Indian Institute of Technology Kharagpur, West Bengal, India
June, 2010 to May, 2015	Associate Professor: Department of Industrial Engineering and Management, Indian Institute of Technology Kharagpur, West Bengal, India
November, 2004–June, 2010	Assistant Professor: Department of Industrial Engineering and Management, Indian Institute of Technology Kharagpur, West Bengal, India
December, 1996- Nov.2004	Sr. Lecturer: Department of Mechanical Engineering, Assam Engineering College, Assam, India
January, 1993-Dec.1996	Lecturer: Department of Mechanical Engineering, Jorhat Engineering College, Assam, India
December,1989- Jan.1993	Sr. Section Engineer: N. F Railway, (Govt. Of India), India

Education:

April, 2004	Doctor of Philosophy: Department of Industrial Engineering and Management, Indian Institute of Technology Kharagpur, 721302 Title of the thesis: Studies on some aspects of supply chain coordination
January, 1996	Masters of Technology: Department of Industrial and Management Engineering, IIT Kanpur, India,
December, 1988	Bachelor of Engineering (Mechanical): Assam Engineering College under Gauhati University, Assam, India,

Award/Honors/Achievements

01. **State Merit Scholarship** (Govt. of Assam) during the study of Pre University and Bachelor of Engineering.
02. Winner of **National Merit Scholarship** (Govt. of India)
03. **Honors (distinction)** during Bachelor of Engineering at Gauhati University
04. **Best paper award:** Obtained Production Engineering division award 2006 -07 from Institution of Engineers, India.

05. ***Rated among ten best researchers working in Logistics and Supply chain Management in India*** (Source: Analysis of the Logistics Research in India- White paper published in TU Dortmund University, Dortmund Germany 2012)
06. One of the PhD student's thesis has obtained **2012 Emerald/ European Foundation Management Development (EFMD) outstanding doctoral research award** under the category of logistics and supply chain management area

Area of Research interest:

Supply Chain coordination and contract design,
 SC risk management, Supply chain analytics
 Logistics Management
 Management of Inventory Systems
 Optimization in business decisions
 Project Management

Grants (R&D projects):

01. Rs. 3 lakhs for the project titled as 'Development of decision support model for supply chain coordination' sponsored by SRIC, IIT Kharagpur. Act as PI
02. Rs 6.5 Lakhs for the project titled as 'Technology Adoption in Tea industry with special reference to NE India sponsored by DSIR, New Delhi, Act as PI
03. Rs 11.8 lakhs for the project titled as "Intelligent decision support on online auctions" sponsored by CSIR New Delhi, India, Act as Co-PI
04. Rs 50.72 lakhs for the project titled as "Requirement analysis and stock replenishment decisions for efficient distribution of food grain" Sponsored by MHRD, Govt. of India, Act as PI
05. Rs. 55.72 lakhs for the project titled as "ICT and waste control in logistics" Sponsored by MHRD, Govt. of India. Act as Co-PI

Industry Sponsored Project:

01. Title of the project "Throughput improvement of SMS unit of Adhunik Metaliks limited' a steel manufacturing company of Orissa, India *Act as Co-PI*
02. Title of the project "Designing of IT road map for Hindustan Copper Limited' A public sector undertaking of Govt. of India *Act as Co-PI*
03. Title of the project "Assessment of residual reliability of armoured fighting vehicles through CBM (AFVC)", Military College of Electronics and Mechanical Engineering Hyderabad, India *Act as Co-PI*
04. Title of the project "Computerization Corporate contract Management System for NLC" Neyveli, Lignite Corporation Limited, Govt. Of India *Act as PI*
05. Title of the project "Development of diesel price escalation formulae for HEMM contract" for CIL, sponsored by CMPDI, Govt. of India *Act as Co-PI*
06. Title of the project "Yield improvement of ball powder manufacturing process" Sponsored by Ordnance factory Itarsi, Govt of India *Act as PI*

07. Title of the project “Study for development of new normative rate of loading & transportation of coal done by Ex-service men transport companies for coal India limited”; Sponsored by Coal India limited, Govt. of India *Act as Co-PI*

Date of Birth: 17th October, 1964

Subjects Taught:

Post Graduate level Production Planning and Inventory Control, Advanced Production planning and inventory control, Project Management and Engineering, Network and project management, Logistics and Supply chain management

Undergraduate level Supply Chain Management, Production planning and control, Industrial Management, Project management, Simulation

List of Publications:

Research Papers Published/Accepted in refereed OR/OM Journals

01. Jena, S, Sarmah S P, Ghadge A (2017) Managing channel profit and total surplus in a closed-loop supply chain network, Journal of Operational Research Society (DOI: 10.1080/01605682.2017.1392408.)
02. Moharana U, Sarmah S P, (2017) Joint replenishment of associated spare parts using clustering approach" Int. Journal of Advanced Manufacturing Technology (DOI: 10.1007/s00170-017-0909-6)
03. Jena, S, Sarmah S.P, Sarin, S C (2017) Joint-advertising for collection of returned products in a closed loop supply chain under uncertain environment, Computers and Industrial Engineering 113, pp. 305–322
04. Saha S, Sarmah S P, Ilkyeong Moon (2017), The impact of online sales in centralized and decentralized dual-channel supply chains, European Journal of Industrial Engineering, (*Accepted for publication*)
05. Ghosh A, Jha, J K, Sarmah, S P (2017) Optimal Lot-Sizing under Strict Carbon Cap Policy Considering Stochastic Demand, Applied Mathematical Modelling, Vol.44, pp. 688-704
06. Jena, S, Sarmah S P, Padhi S(2017)Impact of government incentive on price competition of closed-loop supply chain systems INFOR: Information Systems and Operational Research (*Accepted for publication*)
07. Modak, N, Sarmah S P, Saha S, (2017) Single Versus dual-channel: A strategic analysis in perspective of retailer's profitability under three-level dual-channel supply chain. Asia Pacific Management Review, (*Accepted for publication*)
08. Dadsens, K; Naikan, VNA.; Sarmah, S P. (2017) A methodology for risk assessment and formulation of mitigation strategies for trucking industry; Int. Journal of Performability. Vol.12 , No. 6) pp 573-588
09. Ghosh A, Jha, J K, Sarmah, S P (2016) Optimizing a two-echelon serial supply chain with different carbon policies International Journal of Sustainable Engineering, Vol. 9 No.6, pp. 363-377 (Taylor and Francis)
10. Bhattacharjee, K, Sarmah S P; (2016) Modified swarm intelligence based techniques for the knapsack problem; Applied Intelligence, Vol.46, No 1, pp. 158-179.

11. Jena, S, Sarmah, S P (2015) Measurement of consumers' return intention index towards returning the used products, *Journal of Cleaner Production* Vol. 108, pp. 818-829,
12. Moharana U, Sarmah S P (2015) Multi-criteria classification of spare parts inventories - A web based approach, *Journal of Quality in Maintenance Engineering* Vol. 21 No.4 pp. 456-477.
13. Meena, P L, Sarmah, S.P (2015) Supplier selection and demand allocation under supply disruption risks, *The International journal of Advanced manufacturing technology*, Vol. 83, No. (1-4), pp. 265-274.
14. Saha, S, Sarmah S P, Moon, Ilkyeong (2015) Dual channel closed loop supply chain coordination under reward driven remanufacturing policy, *International Journal of Production Research*, Vol. 54, No 5, pp. 1503-1517.
15. Jena, S, Sarmah S P (2015) Price and service competition under uncertain demand and condition of item in a closed loop supply chain; *Int. Journal of Production Economics* Vol. 173, pp. 1-21,
16. Moharana U, Sarmah S P, (2015) Determination of optimal order-up-to level quantities for dependent spare parts using data mining; *Computers and Industrial Engineering* Vol 95, 27-40.
17. Jena, S, Sarmah S P,(2015) Future aspect of acquisition management in closed-loop supply chain, *International Journal of Sustainable Engineering*, Vol. 9, No 4, pp. 266-276 (Taylor and Francis)
18. Meena, P L, Sarmah, S.P (2014) Sourcing decisions under stochastic demand and risk of supply disruptions. *International journal of Management Science and Engineering Management* Vol 9 No 3, pp. 157-168
19. Bhattacharjee, K, Sarmah S P (2014) Shuffled frog leaping algorithm for 0/1 knapsack problem, *Applied Soft Computing* Vol. 19, pp 252-263
20. Sarmah S P, Sinha S, Lalit Kumar (2014) Price and warranty competition in a duopoly distribution channel: Dynamic stability analysis for boundedly rational agents *IMA Journal of Management Mathematics* Vol. 26 No 3, pp. 299-324
21. Moharana; U, Sarmah S P (2014) Determination of optimal kit for spare parts using association rule mining *International Journal of Systems Assurance Engineering and Management*, Vol 6 No3, pp. 238-247 Springer
22. Jena, S, Sarmah, S P (2014) Price competition and coordination in a closed loop supply chain management. *Int Journal of Production Economics* Vol. 156,pp 346-360
23. Naikan, V NA, Datar, A, Sarmah, S P,(2014) A Demand-Supply Interference Technique for Modeling Spare-parts Inventory Policy, *Int. journal of Management Science and Engg. Management*, Vol. 10, No 3, pp. 191-198 Springer
24. Saha, Subrata, Sarmah S P (2014) Supply chain coordination under ramp-type price and effort induced demand considering revenue sharing contract, *Asia Pacific Journal of Operational Research*, Vol. 32 (2) pp.
25. Partha sarathy,G., Sarmah S P, Jenamani, M (2014) An Integrated Revenue Sharing and Quantity Discounts Contract for Coordinating a Supply Chain dealing with Short Life-Cycle Products. *Applied Mathematical Modelling* Vol. 38, pp 4120-4136;
26. Sarat Jena, Sarmah S P (2013) Optimal acquisition price management considering availability of used product in a remanufacturing system; *International Journal of Sustainable Engineering*, Vol. 7(2), pp 154-170 (Taylor and Francis)

27. Saha S, Sarmah S P (2013) Coordination of supply chains by downward direct rebate under symmetric and asymmetric information Int. Journal of Integrated Supply Management Vol.8 No 4. pp 193-209
28. Meena P.L, Sarmah, S.P (2013) Multiple sourcing under supplier failure risk and quantity discount: A genetic algorithm approach Transportation Research Part E Vol.50, pp.84-97,
29. Meena,P.L, Sarmah, S.P, Sinha S; 2012; Measuring satisfaction in buyer-supplier relationships from the suppliers perspective; Int Journal of business performance and supply chain Modelling Vol.4 (1), pp. 60-74
30. Emmatty, F.J, Sarmah,S.P (2012) Integrated conceptual product development through DFMA and platform based design. Journal of Engineering Design (published by Taylor and Francis) Vol. 23, No 9, pp. 696-714
31. Partha sarathy,G., Sarmah S P, Jenamani, M (2012) Supply Chain Coordination in an RFID Enabled Supply Chain. Int. Journal of Supply operations Management Vol.15, No1, pp 95-122
32. Meena,P.L, Sarmah, S.P (2012) Development of supplier satisfaction index model, Industrial Management and Data System, Vol. 112(8), pp.1236 – 1254,
33. Dhanya, J. Sarmah S P (2012) Supply chain performance measurement for third party logistics, Bench marking: An international Journal Vol. 21 Issue: 6, pp.944-963
34. Meena, P. L, Sarmah, S.P., Sarkar, A. (2011) Sourcing decisions under risks of catastrophic event disruptions; Transportation Research Part E, Vol. 47 (4), pp. 1058-1074
35. Partha sarathy,G., Sarmah S P, Jenamani, M; (2010) Supply Chain Coordination under Retail Competition using Stock Dependent Price-Setting Newsvendor Framework; Operational Research: An International Journal (Springer) Vol.11 (3), pp. 259-279,
36. Sinha, S., Sarmah S.P. (2010) Coordination and Price Competition in a Duopoly Common Retailer Supply Chain, Computers and Industrial Engineering, Vol. 59 pp.280-295
37. Dutta, S, Sarmah, S. P, Goyal, S K; (2010) Evolutionary stability of supply chain contacting and auction: An analysis from Indian tea industry; European Journal of Operational Research Vol. 207, pp. 531-538,
38. Sinha, S., Sarmah S.P. (2010) Single vendor multi buyer discount pricing model under stochastic demand environment, Computers and Industrial Engineering, Vol. 59 (4), pp. 945-953,
39. Sinha, S., Sarmah S.P. (2010) Single-vendor Multi-buyer Optimal Discount Pricing Model: An Evolutionary Computation-based Approach International Journal of Operational Research Vol.8, (1) pp.1-19
40. Sarmah, S P.(2010) Three stage supply chain coordination under capacity bottleneck environment, International Journal of Logistics Systems and Management Vol. 7(2), pp. 245-263
41. Sinha, S., Sarmah S.P.; (2010) Three stage supply chain coordination under price sensitive demand environment, International Journal of Operational Research Vol. 9(2), pp. 205-226
42. Das, A N, Sarmah, S P. (2010) An overview of preventative replacement models in process industries European Journal of Industrial Engineering Vol.4, No 3. pp. 280-307
43. G Partha Sarathy, Sarmah S P, Jenamani, M (2010) Impact of price sensitive and stock dependent random demand on supply chain coordination, Management Science and Engineering Management, Vol. V, No 1, pp. 72-80.
44. Sinha, S., Sarmah S.P. (2009) Coordination and Price Competition in Duopoly Distribution Channels, Int. Journal of Integrated Supply Management Vol. 5, No2, pp. 113-139

45. S Nandagawe, Sarmah, S P; (2009) Development and application of a simulation model for throughput improvement in the melting shop of a steel plant, *Int. Journal of Operational Research* Vol. 6 No 2, pp. 267-275
46. Sinha, S., Sarmah S.P.; (2008) An application of Fuzzy set theory for supply chain coordination, *International Journal of Management Science and Engineering Management* Vol. 3 No. 1, pp 19-32
47. Sarmah, S.P., Acharya D., Goyal, S.K; (2008) Two stage supply chain coordination with credit option under asymmetric information environment, *International Journal of Logistics Systems and Management (IJLSM)*, Vol. 4, No. 1, pp 98-115
48. Sarmah, S.P; (2008) Supply chain coordination with target profit: *International Journal of Operational Research* Vol.3 No 1/2, pp 140-153
49. Dutta, S, Sarmah S.P. (2008) An analysis of supply chain coordination model in a multi agent market, *International Journal of Operational Research*, Vol. 6, No. 4, pp.475–499.
50. Sarmah, S.P., Acharya D., Goyal, S.K; (2008) A manufacturer and multiple buyers supply chain coordination with credit option, *Int. Journal of Production Economics*, Vol. 111 No. 2, pp 676-685
51. Sarmah, S.P; Acharya D., Goyal, S.K; (2007) Coordination and profit sharing between a manufacturer and a buyer with target profit under credit option ; *European Journal of Operational Research* Vol.182, No. (3), pp. 1469-1478
52. Sarmah, S.P., Sinha, S; (2007) Supply chain coordination model with insufficient production capacity and option for outsourcing, *Mathematical and Computer Modeling (Int. Journal)* Vol. 46, Issues 11-12, pp 1442-1452
53. Sarmah, S.P., Acharya, D., Goyal, S.K, (2006) Some models on value of Information sharing in Supply chain Management, *The ICFAI Journal of Operations Management (India)*, Vol. V. No.2 pp 7 – 23
54. Sarmah S P, (2006) Two stage supply chain coordination under the condition of target profit, *Industrial Engineering Journal (India)*, Special Issue, pp. 68-76
55. Sarmah, S.P., Acharya, D., (2006) A comparative study of manufacturer batch size policy with and without credit option for supply chain coordination, *Journal of the Institution of Engineers, Production engineering division (India)*, Vol. 87, September, pp. 31-37
56. Sarmah S.P., Acharya D., Goyal, S.K (2006) Buyer vendor coordination models in supply chain management: An invited review, *European Journal of Operational Research*, Vol. 175, No. (1), pp. 1-15

Book published

01. Modelling of Responsive Supply chain: Authored by M K Tiwari, B Mahanty, S P Sarmah, and M Jenamani, Published by CRC press (Taylor and Francis), July 2012
ISBN13: 9781466510340

Book Chapter

01. Sarmah, S.P., Sinha, S; 2011, Price and warranty competition in a duopoly supply chain, A book Chapter in *Supply chain coordination under stochastic environment*, Edited by Tsan Ming Choi and T C E Cheng **Published by Springer Verlag** , page 281-314.
02. Sarmah, S.P., Sinha, S; 2009, Two stage supply chain coordination under duopoly price competition, A book Chapter in *Electronic Supply Network Coordination in Intelligent and*

Dynamic Environment: Modeling and Implementation. Edited by Iraj Mahdevi, Shima Mohebbi, Namjae Cho, **Published by IGI Global**, Chapter 10, page 226-249

03. Bhattacharjee, K, Sarmah S P; 2012, A modified shuffle frog leaping algorithm with genetic mutation for combinatorial optimization; ed. by NT Nguyen, K Hoang, P Zedrzyjowicz, **published by Springer Lecture series note** Computational collective intelligence Technologies and application (LNAI 7654); pp-513-522
04. Jena S , Sarmah S P, 2015, Coordination and competition in a closed loop supply chain A book chapter in Global supply chain and emerging markets, ed by R Sharma, S Asthana, C S Lalwani; Published by Bloomsbury India, pp, 587- 598

Edited volume/Conference Proceedings

01. Edited the proceedings of International Conference on Advances in Supply Chain and Manufacturing Management by S P Sarmah, (Published by: Department of Industrial Engineering and Management, IIT Kharagpur, 2011).
02. Edited the proceedings of International Conference on Issues and challenges in Supply chain Management by S P Sarmah, A K Agarwal, A Sarkar, C Cherian (Published by: Mechanical Engineering Department, IT Banaras Hindu University, 2008).

Students Guided in Ph D and Masters Programme:

01. Ph D

Completed 08

- (i) **Name of the student :** Santanu Sinha
Title of the thesis: Modelling supply chain coordination under diverse settings
Obtained second best thesis award in doctoral thesis competition in AIMS int. Conference held at IIM Ahmadabad, India 2010
Currently working as Sr. consulting Manager in Hewlet Packard ltd, Bangalore, India
- (ii) **Name of the student:** G Parthasarathy
Title of the thesis: Modelling supply chain contract for short life cycle products
Currently working as Professor in Mechanical Engg. Dept. of Jaya Prakash Narayana College of Engineering, Andhra Pradesh, India
- (iii) **Name of the student:** P L Meena
Title of the thesis: Sourcing decisions under the risks of Supply Disruption and Supplier Satisfaction
The thesis won the “**2012 Emerald European Foundation Management Development Outstanding Doctoral Research Awards**” under the category of logistics and supply chain management sponsored by Int. Journal of Physical distribution and logistics Management
Currently working as Associate Professor in Management dept., New York Institute of Technology, USA
- (iv) **Name of the student:** Kunal Kanti Ghosh
Title of the thesis: Service providers’ capabilities in offshore outsourcing of automotive design services in India
Currently working as faculty in Vinod Gupta School of Management, IIT Kharagpur, India
- (v) **Name of the student:** U C Moharana
Title of the thesis: Managing inventory for non repairable dependent spare parts

Currently working as Senior Manager in Oracle India Ltd, Bangalore, India

- (vi) **Name of the student:** Sarat Kr Jena
Title of the thesis: Modeling closed loop supply chain for end of use product
Currently working as Asstt. Professor in Management dept., Goa Institute of Management, Goa, India
- (vii) **Name of the student:** Kaushik Bhattacharjee
Title of the thesis: Design and Analysis of approximate algorithm for 0/1 knapsack problem
Currently working as Asstt. Professor in Management dept., IEST, Shibpur, West Bengal, India
- (viii) **Name of the student:** Arindam Ghosh
Title of the thesis: Modelling of a two echelon supply chain under different carbon policies
Currently working as Asstt. Professor in Management dept., Thiagarajan College of Engineering, Madurai, India

02. M Tech

Completed **39**

International Collaborations:

- 01.** Currently supervising Joint Phd student with a faculty of *Telfer School of Management, University of Ottawa, Canada*
- 02.** Completed M Tech (Dual degree) joint supervision with a faculty of Management dept. of *University of Ontario, Institute of Technology, Canada*
- 03.** Research work undertaken with faculty of *John Molson School of Business, Concordia University, Canada*
- 04.** Research work undertaken with faculty of *Dept. of Industrial Engineering, Seoul National University, South Korea*

Professional Activities:

Int. Conference/Short term course/ workshop organized

- 01.** Act as **Principal Coordinator** for the MHRD sponsored TEQIP II short-term course on **Inventory Management in Supply chain** held during 3rd. to 5th March, 2017 in the I&SE dept. at IIT Kharagpur
- 02.** Act as **Coordinator** for the **ISWT** course on **Supply chain Network: Design and Analysis** in collaboration with International faculty member held during 15th June to 26th June, 2015 at IIT Kharagpur India
- 03.** Act as **Organizing Secretary** for **International Conference on Advances in Supply Chain and Manufacturing Management** held during 16th. to 18th. December, 2011 at IIT Kharagpur, India

04. **Principal Coordinator** for the MHRD/AICTE sponsored SDP short-term course on **Supply chain Management & E-business** held during 23rd. to 28th November, 2009 in the IE&M deptt. at IIT Kharagpur and 34 participants attended the course from different parts of the country
05. **Principal Coordinator** for the AICTE sponsored QIP short-term course on **Supply chain Management** held during 3rd. to 7th October, 2007 in the IE&M deptt at IIT Kharagpur and 29 participants attended from different parts of the country.
06. **Organizing Secretary cum Treasurer** for the Pre Conference workshop on **Operational Research as Competitive edge** in association with ORSI Kolkata Chapter held during 03-04 Jan., 2007 at IIT Kharagpur
07. **Co-coordinator** of the **Materials Management** course for Indian Railway probationary officers held during 11- 6- 2007 to 6-7- 2007 in the IE&M Department at IIT Kharagpur
08. Developed a **video lecture** on “**Supply chain management Strategies for Channel coordination**” Published by IGI Ltd (2016) EISBN13: 978-1-5225-0234-0 DOI: 10.4018/978-1-5225-0234-0
09. Act as reviewer for more fifteen leading International Journals in the area of OR/Operations Management.
10. **Advisory Board Member** of the International Conference on Industrial Engineering and Operations Management (IEOM 2010) held in Dhaka; Jan, 9-10,2010
11. Act as Editorial board member for special issue “Operations and supply chain Management: An international Journal, Inderscience

Administrative Experience:

1. **Training and Placement In-charge** of I&SE Department from Nov.2004 to July 2007 to coordinate with industries for one year project work of M. Tech students of the department
2. Presently **Department library in-charge** and **Central library representative** of the Department
3. Department **UGPEC representative** in the Institute from 2012-2015
4. Department **Research Coordinator** from 2009-2017
5. **Purchase committee** member of the department since 2014 till date
6. Act as faculty Advisor for the **student Chapter IISE (USA)** of IIT Kharagpur Chapter
7. **Senate nominated member of IIT KGP** for the course equivalence committee for the year 2016 - 2018
8. **Act as Assistant Zonal Officer** to conduct Joint Admission Test 2004, for all the Govt. Engineering Colleges of Assam at Assam Engineering College and number of students appeared 3500

Lectures delivered at various places:

01. **Facility location** for faculty members of Engineering Colleges in QIP short term course on Decision Modelling in facility planning during July4-8, 2011 at I&SE deptt.
02. **Inventory Modelling** workshop at Centre for Mathematical Science of Banasthali University, Rajasthan held during 4th - 7th. March,2011
03. **Lean Logistics** for the industry professionals organized by the Dept. Of IE &M during 3-6th. December, 2010
04. **Lean Supply chain Management** for the officers of Indian air force organized by the department of IE &M.
05. **Product life cycle Management** for the officers of DRDO organized by the department of IE &M dept..
06. **Project Scheduling** for the Executives of Mac-Nelly Bharat Ltd, an in house company programme
07. **Inventory in services & Work force scheduling** for the QIP short term course on “**Service Science**” held in IE &M dept. during 8-13th July, 2013
08. **Data analytics with SAS** for the industry professionals organized by the Dept. Of I& SE during 13-15th. January, 2015
09. **Quantitative decision modelling** for QIP short term course organized by the Dept. of I& SE during 4 - 08th. July, 2016
10. **Strategic Sourcing Decision and vendor Management** for the executives of Tata Metallic Limited, Kharagpur, organized by Vinod Gupta School of Management KGP during 26-9-2016 to 30-9-2016
11. **Measurement System Analysis** for the industry Executive of the course **Lean Six Sigma** jointly organized by Dept. of I&SE and ASQ, India during the period 2-2-2017 to 17-2-2017
12. **Forecasting** for the TEQIP II short term course on Data analytics with SAS organized by Dept. of I&SE during 22-24th March, 2017

Professional body membership:

01. Life member of Indian Society of Technical Education
02. Annual Member of AIMS International Society, USA
03. Annual member POMS USA, 2016
04. Annual member IISE society USA, 2016

Last updated 30-08-2017

(S P Sarmah)
