

CURRICULUM VITAE

Name : Dr. Nirmal Kumar Singh
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Education and Professional Qualification

Examination	Board/University	Year of Passing	Division and Percentage	Subject Taken
BSSE (10 th)	BSEB, Patna	1978	1 st Div. and 67%	Phy., Chem., Maths, English, Sanskrit, Hindi and Social Studies
AISSC(+2)	CBSE, New Delhi	1980	1 st Div. and 67%	Phy., Chem., Maths, English, Sanskrit
B.Sc.(Hons.) Part – I	BHU, Varanasi	1982	1 st Div. and 68.5%	Phy., Chem., Maths, English
B.Sc. Engg. (Mech.)	NIT Jamshedpur (Formerly RIT Jamshedpur)	1987	1 st Div. with Distinction and 73.5%	Mechanical Engg. with Specialization in Optimization and Operations Research, Automobile Engg. and Solar Energy
PG Diploma in Statistical Quality Control	Indian Association for Productivity Quality & Reliability, (IAPQR) Kolkata	1991	2 nd Div. and 50.6%	Statistical Methods, Process and Product Control, Management Methods
Ph.D.(Engg.)	Jadavpur University, Kolkata	1999	-	Topic: Process Capability Analysis

Research Experience : I have done part time for Ph.D.(Engg.) in the Mechanical Engineering Department of Jadavpur University, Kolkata on Process Capability Analysis i.e. in the area of Industrial Engineering/Management (Statistical Process Control) under the guidance of Professor (Dr.) S.P. Mukherjee, Centenary Professor of Statistics, Calcutta University and International Quality Expert (Januray, 1992 – May, 1999) and Professor (Dr.) A. Bhattacharya, Professor of Mechanical Engineering (Production Specialization) (March, 1995 – May, 1999) Jadavpur University, Kolkata

Professional/Working Experience

Employer/Organization	Post Held/Designation	Period	Pay	Nature of Duties
M/s Vankos & Co. 13/2, Industrial Estate Patna – 822 013 (Private Company), Bihar, India	Graduate Engineer Trainee and Probationary Engineer	05.10.1987 to 15.12.1989 (2year and 2month)	-	Supervision in Machine Shop for production of various components of hydraulic jacks
SQAE(GS), DGQA Complex (Min. of Defence), Govt. of India, Hasting, Kolkata – 700 022, WB, India	Chargeman Grade – II (Store Inspection/ Technical Assistant)	11.12.1989 to 02.04.2001 (11 Years and 4months)	Rs. 5000-150-8000	Quality Assurance of General Store including Mechanical Engineering store which are supplied to Defence Force of the Nation
Advance Training Institute (Govt. of India, Min. of Labour, DGE & T), Dasnagar, Howrah – 711 105, WB, India	Assistant Director of Training (Direct appointment by the UPSC) Group ‘A’ Gazetted post)	03.02.2001 to 14.01.2008	Rs. 8000-275-13500	(i) Planning Organizing coordinating conducting short-term courses on Metrology,SQC, ISO 9000:2000, TQM, Six Sigma. (ii) Conducted long term course on Principle of Teaching. (iii) Involved in administrative/technical matters related to Craftsmen and Instructor Training, Admissions, Trade Testing (Examinations) and Placement etc.
Central Workshop/Deptt. of ME&MME, ISM University, Dhanbad – 826 004, Jharkhand, India	Assistant Professor (Workshop)	15.01.2008 to till date	12000-420-18300	Conducting Practical Training in the Central Workshop, Conducting theoretical classes related Workshop Technology/ Manufacturing Process, Maintenance Engg. to B.Tech. Undergraduate Students

Research Publications

1. Mukherjee, S.P. and Singh, N.K (1993): “A process capability index for two correlated quality characteristics”. IAPQR Transactions, Kolkata, India, 18(2),pp.49-55
2. Mukherjee, S.P. and Singh, N.K (1994): “Sampling properties of an estimator of Bivariate process capability index”, Economic Quality Control, Wurzburg, Germany, 9(2),pp.73-78
3. Sandhu, D.S. and Singh, N.K. (1994): “Quality related culture-understandable by a common man”, DGQA (Ministry of Defence) Journal, New Delhi,India, 23(2),pp.17-21
4. Bhattacharya, A. and Singh, N.K. (1997): “Applications of process capability analysis in the manufacturing industry”, Proceeding of 13th National Convention of Mechanical Engineers, New Delhi,India,pp.184-199
5. Mukherjee, S.P. and Singh, N.K (1997-98): “Sampling properties of an estimator of a new process capability index for Weibull distributed quality characteristics”, Quality Engineering, New York, U.S.A., 10(2),pp. 291-294
6. Singh, N.K (2004): “Student corner”, IAPQR Communiqué, Kolkata, India, Vol. XVI No.4
7. Singh, N.K (2008): “Smart machineries and process for crushing, screening and conveying of various materials in mines” Proceedings of National Seminar on Crushing, Screening and Conveying (CS&C), Dhanbad,India,pp.47-58

Seminar/Symposium/Conference Activities

- Presented a research paper on Process Capability Analysis in the National Conference on Quality in the Global Economic Context held in Kolkata during 23-24 December, 1993 organized by IAPQR, Kolkata.
- Presented a paper on “Statistical method for comparative assessment of quality of cloth plain weave polyester and cotton khaki or light blue grey processed by two industries” in the National Conference on Science and Technology – Interface with Productivity, Quality and Reliability held in Kolkata during 9-11 November 1995 organized by IAPQR, Kolkata.
- Presented a paper on Application of Process Capability Analysis in the Manufacturing Industry in the 13th National Convention of Mechanical Engineers on 6-8 November, 1997 at the Institution of Engineers (India), Delhi State Center, New Delhi.
- Presented a paper Application of process capability measures in the textile industry in the National Seminar on Statistical Computing organized by the Department of Statistics and Computer Applications; T.M. Bhagalpur University, Bhagalpur during 26-28 November, 2002.
- Presented a research paper on Process capability index for bivariate exponential distributed quality (reliability characteristics and its sampling properties in the International Symposium on Emerging Strategies for Improving Productivity, Quality and Reliability held during 12-14 December, 2003 at Kolkata organized by IAPQR.
- Acted as session coordinator in National Conference held in January 2007 (Food Safety & Security) in Kolkata, India.
- Presented a paper on “Smart machineries and process for crushing, screening and conveying of various materials in mines” National Seminar on Crushing, Screening and Conveying held at ISM University, Dhanbad, India during 11-12 Sept. 2008 organised by the Deptt. of ME&MME ISM University.

Areas of Specialization/interests of Teaching

- Industrial System Engineering: Work-study, FMS or production analysis and design, Engineering Economics and Management, Manufacturing Process.
- Operations Management : Production/Maintenance/Technology Management, SQC, Numerical Analysis and Computer programming, Total Quality Management, ISO 9000: 2000 Family of Standards, Management Methods, Quantitative Methods.
- Mechanical Engineering: Energy Conversion, Heat transfer, Refrigeration and Air Conditioning, Automobile Engineering, Solar Energy, Metrology, I/C Engines and Gas Turbines, Machine Design, Fluid Mechanics, Theory of Machines.

Training/Professional/Vocational Courses

- Attended a course on Entrepreneurship Development Programme during 9-11 August, 1986 at Jamshedpur organized by the Regional Institute of Technology, Jamshedpur, India.
- Undergone vocational training in TISCO (Tubes Division), Jamshedpur (India) during May 21 to June 14, 1986 for study of various types of tubes/pipes.
- Attended a course on Inspection and Quality Control during 4-15 December, 1995 at Foreman Training Institute, Jamshedpur, India.
- Attended a course on Six Sigma at Bengal Club during 26-27 April, 2002 organized by IAPQR.
- Attended a course on Introduction Programme for officers during 15-26 July, 2002 at CSTARI (Central Staff Training & Research Institute), Kolkata, India.
- Attended a Product Awareness Program on CNC machines at HMT Machine Tools Ltd., Bangalore (India) during 24.07.2006-03.08.2006

Supervision of Dissertation

- Supervised a dissertation on Quality – potent tool for survival/growth/profitability of Indian Manufacturing Industry for Post-Graduate Diploma in Management from ALMA-CME, New Delhi (India) in 1995.

Membership of Professional societies

- Corporate Member of Institute of Engineers (India)
- Life Member of Indian Association for Productivity, Quality and Reliability
- Life Member of Indian Science Congress Association
- Life Member of Operational Research Society of India

Hobbies/Interests

Teaching/Reading Quality and Engineering related journal, watching TV, reading Newspaper.

The above information is true to the best of my knowledge and belief. I may be penalized if any information is found to be incorrect.

Dr. Nirmal Kumar Singh

Place : ISM University, Dhanbad , India

Date :10 January 2009