

CURRICULUM VITAE

Professor Amitabha De

M.Sc. (Physiology), Ph.D. (University of Calcutta, West Bengal, India), MIIIE

Professor

National Institute of Industrial Engineering (NITIE)

&

Coordinator, TIFAC Centre of Relevance and Excellence
in Ergonomics and Human Factors Engineering ,

Professor In charge Physical Ergonomics Laboratory,

National Institute of Industrial Engineering (NITIE)

Vihar Lake Road, P.O. NITIE, Mumbai 400 087, India

Email ID: amitabhade84@yahoo.co.in, deamitabha84@gmail.com



Date and Place of Birth

2nd May, 1953; Chakbajit, Midnapore, West Bengal, India

Nationality: Indian

Education

Ph. D (Sc) - Physiology and Ergonomics (University of Calcutta, Kolkata, India) May, 1989

M.Sc. - Physiology (specialization-Work Physiology and Ergonomics), University of Calcutta, Kolkata, India, January, 1977

B.Sc (Hons.) Physiology, University of Calcutta, Kolkata, India, December, 1974

Ph. D. (Sc) Thesis:

Title: “Studies on Ergonomics in Indian Agricultural Work”; Guide – Professor R. N. Sen, Department of Physiology, University of Calcutta, Kolkata, India.

Areas of Academic Interests

Ergonomics and human factors engineering, work and exercise physiology, work study, work systems design, organization & methods, industrial safety management systems.

Research interests

Workplace & workstation design, work related musculoskeletal disorders, biomechanics and manual material handling, work and exercise physiology, organizational ergonomics, ergonomics of office systems, school and developmental ergonomics, ergonomics of women at work, human factors in technology management, physical working environment.

Sponsored Research Projects Completed

“Ergonomics and occupational health oriented work organization in Indian agricultural work”: sponsored by the Indian Council of Medical Research (ICMR), Government of India (as a Research Fellow).

“An expert system on industrial safety”: jointly with Professor Atanu Rakshit, Professor, NITIE, sponsored by the Ministry of Human Resource Development (MHRD), Government of India (under Modernization Scheme),

“Modernization and up-gradation of ergonomics laboratory”: sponsored by the Ministry of Human Resource Development (MHRD), Government of India (under Modernization Scheme).

“Ergonomic evaluation of modern office systems”: a joint Research Project with Tata InfoTech Limited, Mumbai (an Industry-institute collaborative project).

“Bench marking of industrial safety management system of India”: Sponsored by the All India Council of Technical Education (AICTE), Government of India (under Industry Institute Partnership Programme).

“Development of anthropometry database of Indian white collar employees”: Sponsored by the All India Council of Technical Education (AICTE), Government of India (under Industry Institute Partnership Programme).

“An ergonomic study of executive work and work stress”: Sponsored by the All India Council of Technical Education (AICTE), Government of India under (R & D Scheme).

“The development of ergonomic toolbox with reference to technology transfer in developing countries” Sponsored by the Ministry of Human Resource Development (MHRD), Government of India (under R & D Scheme).

“An ergonomic intervention programme of women employees engaged in jewellery manufacturing”: Sponsored by Department of Science and Technology (DST), Government of India, (under Science and Society Scheme).

Institutional project:

“A preliminary ergonomics study on tea-plucking operation” (1980); The study was carried out in collaboration with Tocklai Experimental Station, Jorhat, Assam, The study aimed at determining work load, work method, environmental load on the workers and the relationships with productivity (One of the team members).

“A preliminary ergonomics study on railway track maintenance staff - with special emphasis on design of railway track tools” (1980); the study was partially sponsored by RDSO, Lucknow, Indian Railways. The study aimed at determining workload, work method, work tools and environmental load on the workers and the relationships with productivity (One of the team members).

On-Going Sponsored Projects:

“Technology Information, Forecasting and Assessment Council (TIFAC) Center of Relevance and Excellence (CORE) in Ergonomics and Human Factors Engineering (CEEHFE) – TIFAC-CORE NITIE” a joint programme of NITIE and TIFAC- DST.

“A Study on the fitness levels of sedentary Indian adult males and females”: Funding through CEEHFE -TIFAC project fund

“A Study of classroom ergonomics and students’ performance”: Funding through CEEHFE - TIFAC project fund.

“Ergonomic study of modern office system furniture and related problems”: Funding through CEEHFE -TIFAC project fund.

“A study of gait pattern of Indian adult”: Funding through CEEHFE -TIFAC project fund

An ergonomic study occupational health related problems with special emphasis on work related musculoskeletal disorders in Indian jewellery manufacturing: Funding through CEEHFE -TIFAC project fund

Research Student Guidance (awarded):

Bhasin H.V., “Ergonomic considerations for design of workstation for repetitive sedentary task”. Thesis is awarded as Fellow of NITIE (equivalent to Ph.D. of any Indian University).

Research Student Guidance (Under process):

Dhar U., An ergonomic study of occupational health problems with special emphasis on work related musculoskeletal disorders in Indian jewellery manufacturing (University of Calcutta).

Mishra W., An ergonomic study of musculoskeletal disorders of Indian instrumental musicians (NITIE).

Malakar M., Development of an AI based expert system for design support to common ergonomic problems encountered in workplaces (Jadavpur University)

Publications:

Sen, R.N., De, A. , Ray, G.G. , 1978, Studies on workload of some agricultural workers in West Bengal, India, Proc. of Physiology, 65 Session of Indian Science Congress Association.

Sen, R.N., Ganguli, A.K., Ray, G.G., De, A. and D. Chakraborty, 1980, A preliminary ergonomic study of tea plucking, Two and a Bud (Tea Research Association), 27, 24-82.

Ray, G.G., Sen., R.N., Nag, P.K., De, A., and S. Basu, 1981, Relationship between segmental weight and whole body weight and volumes of Indians, Journal of Human Ergology (Japan), 10, 35-48.

Sen, R.N., Ganguli, A.K., Ray, G.G., De, A. and D. Chakraborty, 1981, Ergonomic study of tea leaves plucking operations: criteria for selection categorization, App. Ergonomics (U.K.), 12, 83-85.

Sen, R.N., Ganguli, A.K., De, A. and D. Chakraborty, 1982, An ergonomic assessment of walking speed with selected physiological parameters for work study application in man, Proc. of Physiology 69 Session of Indian Science Congress Association, Mysore, India.

Sen, R.N., Ganguli, A.K., Ray, G.G., De, A. and D. Chakraborty 1983, Ergonomic study of tea plucking operation - workload and environmental studies, Ergonomics (U.K.), 26, 337-893.

Sen, R.N., De, A., Ganguli, A.K., and D. Chakraborty, 1984, Anthropometry in relation to ergonomics of walking for work study application in Indian agricultural workers, Ergonomics (U.K.).

Sen, R.N. and **De, A.**, 1984 Ergonomic study of sheafing – a task involving paddy cultivation in India, paper presented at the International Symposium of Applied Physiology and Ergonomics, held at Calcutta, 17-19, August 1983, Ind. J. Physiology and Allied Sciences, 33, 85- 94.

De, A. , 1985, Postures in paddy cultivation in India, paper presented at the 9th Congress of the International Ergonomics Association (IEA), Bournemouth, U.K.

De, A. , 1985 ,Ergonomic evaluation of working postures at different forward bending positions, paper presented in XXXI annual conference of the Association of Physiologists and Pharmacologists of India (APPI), Kolkata, India.

S. Raja and Unni Krishnan, E. and **De, A.** , 1986, Problems of noise in industry - the Indian scene, paper presented and Proc. 28th National Convention of Indian Institution of Industrial Engineering (IIIE), Bombay , India.

De, A. and Sen, R.N., 1986, Ergonomic evaluation of ploughing process in paddy cultivation in India, J. Human Ergology (Japan), 15, 103 - 112.

Bhasin, H.V., Kothiyal, K.P. and **De, A.** , 1988 , Changing role of ergonomics in industrial engineering, paper presented in and Proc. 30th National Convention of Indian Institution of Industrial Engineering (IIIE), Visakhapatnam, India.

Agarwal, S.M., Vipat, S.C., Divekar, A.Y. , Bhasin, H.V. and **De, A.**, 1988, Ergonomic study of an assembly workstation in a light engineering industry, presented in 3rd National Convention of Indian Institution of Production Engineering.

Bhasin, H.V., Kothiyal, K.P. and **De, A.**, 1988, Workplace design for assembly jobs: a biomechanical analysis. National Conference on Biomechanics, Delhi, India, K.B. Sahay & R.K. Saxena (eds.), Willey Eastern Ltd., New Delhi.

Kothiyal, K.P., Bhasin, H.V. and **De, A.**,1989, Application of ergonomic principles to press shop operation in light engineering industry, paper presented in and proc. Work Design and Practice, The Third International Ergonomics Symposium, Zadar, Yugoslavia.

Kothiyal, K.P., Bhasin, H.V. & **De, A.** , 1989, Precision manual assembly jobs: biomechanical considerations in workplace design, paper presented and Proc. Work Design and Practice, The Third International Ergonomics Symposium, Zadar, Yugoslavia.

De, A. and Bhasin, H.V., 1991, A comparative investigation of forward bending postures under static load, paper presented in ISE-OH-SE, Mumbai, India.

De, A. and R.N. Sen, 1992, A work measurement method for application in Indian agriculture, International Journal of Industrial Ergonomics (Netherlands), 10: 285-292.

De, A., 1998, International ergonomic standards, status of developing countries: an Indian experience, paper presented in and Proc. XIII Annual International Occupational Ergonomics & Safety Conference held at Michigan, USA.

De, A., Mogare, T. and Dutta, S.P., 1999, Indian ergonomic standards – office furniture system – a case study, paper presented in and Proc. XIV Annual International Occupational Ergonomics & Safety Conference held in USA.

De, A., Trupti Mogare, Jyotika Saharia and Rahul Walawalkar , 2000, Present scenario of occupational health and ergonomic problems of professional in information technology organizations, paper presented in and Proc. 42nd National Convention of Indian Institute of Industrial Engineering (IIIE), Coimbatore , India.

Trupti Mogare, Jyotika Saharia and **De, A.** , 2000, Study of the anthropometric dimensions and body composition of professionals in Indian information technology organizations, paper presented in the Third Congress of Federation of Indian Physiological Societies (FIPS), Kolkata, India.

De, A., Jyotika Saharia, Trupti Mogare, Sushil Kumar , 2000, A comparison between indoor air temperature and employees thermal sensation vote in Indian information technology organizations, XII Annual Conference of the Physiological Society of India, Kolkata, India.

Mogare, T., Altekar, C., **De, A.**, 2001, Ergonomics of modern office systems: an Indian context, Udyog Pragati, 25, 15 – 22.

De, A., Altekar, C., Mogare, T., Sharma, N., Jain, R. and Savanur, C. , 2001, An ergonomic study of Indian school classrooms, paper presented in and Proc. International Congress on Humanizing Work and Work Environment HWWE 2001, Mumbai, India.

De, A., Mutakekar, M. V. and Sharma, D., 2002, Human factor (ergonomics) issues of women employees engaged in jewellery manufacturing in India, paper presented in and Proc. in 44th National Convention of Indian Institute of Industrial Engineers, Mumbai, India.

R. Walawalkar, **De, A.**, T. Mogare, and Saharia, J., 2002, Effect of efficient lighting on ergonomic aspect of modern IT Offices, paper presented in and Proc. the International Right Light 5 conference, France.

R. Walawalkar, **Amitabha De**, Trupti Virkar, and Sarita Walawalkar, 2003, Human factors in energy management, paper presented in and Proc. World Energy Engineering Congress, USA.

Manna, I., Mutakekar, M.V., Sharma, D. and **Amitabha De**, 2004, An ergonomic study of workers engaged in jewellery manufacturing in India, paper presented in and Proc. 54th National Conference of Indian Association of Occupational Health, Kochi, India.

De Amitabha, 2004 , Problems of HR and Work; Ergonomics and economics; current standards, (ISO TC 159) legislations and future challenges, paper presented in National Seminar on Ergonomics, organized by Bombay Chambers of Commerce and Industries, Mumbai, India.

Savanur, C.S., Ghosh, S., Dhar, U. and **Amitabha De** ,2004, An ergonomic study of comparison between school classroom furniture and students' anthropometry, paper presented in and Proc. National Ergonomics Conference HWWE 2004, Mumbai, India.

Dhar, U., Mutakekar, M.V., Ghosh, S., Savanur, C.S., and **Amitabha De**, 2004, Work related musculoskeletal disorder in organized and unorganized sector of jewellery manufacturing in India, paper presented in and Proc. National Ergonomics Conference HWWE 2004, Mumbai, India.

Savanur, C., Dhar, U., Wani, S., Salve, R., Jadhav, C., Bhagavatula, A. and **Amitabha De**, 2005, Applicability of system usability scale (SUS) for evaluation of classroom chairs with writing tablets, paper presented in and Proc., International Ergonomics Conference HWWE 2005, Guwahati, India.

Dhar, U., Savanur, C., Ghosh, S., Wani, S., Salve, R. and **Amitabha De**, 2005 , A study to identify the nature of fatigue among the workers of jewellery industries; traditional manufacturing sector and modern manufacturing sector, paper presented in and Proc. International Ergonomics Conference HWWE 2005, Guwahati , India.

Ghosh, S., Sudharani, V., Dhar, U. and **Amitabha De**, 2005, Determination of aerobic capacity of young Indian adult male, paper presented in and Proc. International Ergonomics Conference HWWE 2005, Guwahati, India.

Sudharani, V., Ghosh, S., Dhar, U., Savanur, C. and **Amitabha De**, 2005, Applicability of Borg's RPE scale to Indian adult males", paper presented in and Proc. HWWE 2005, Guwahati, India.

Mukhopadhyay Suman, Ghosh, S., V. Sudharani, Savanur, C., Dhar, U. and **Amitabha De**, 2006, Recovery cardiopulmonary dynamics of young Indian adult males, paper presented in XVIII Annual Conference of Physiological Society of India, Kolkata, India.

Amitabha De, Dhar, U. and Savanur, C. S., 2006, Workstation ergonomics, paper presented in **and Proc.** XVIII Annual Conference of Physiological Society of India, Kolkata, India.

Savanur, C. S., Dhar, U., Ghosh, S., Wani, S., Salve, R., and **Amitabha De**, 2006, Study of classroom factors influencing the performance in school children, Paper presented in XVIII Annual Conference of Physiological Society of India, Kolkata, India.

Dhar, U., Savanur, C. , Ghosh, S., Salve, R. and **Amitabha De**, 2006, A study of back extensor and flexor muscle strength of college students' age group 20–25 years, paper presented in XVIII Annual Conference of Physiological Society of India, Kolkata, India.

Ghosh, S., Mukhopadhyay Suman, V. Sudharani, Savanur, C., Dhar, U. and **Amitabha De**, 2006, Aerobic fitness levels of young Indian adults revisited, paper presented in XVIII Annual Conference of Physiological Society of India, Kolkata, India.

Mukhopadhyay Suman, Ghosh Sanchita and **Amitabha De** , 2007, The concept of VO₂ max: classical versus contemporary: a review, paper presented in International Conference on Frontier Research in Integrative Physiology (ICFRIP), Kolkata, India.

Amitabha De, Mogare, T., Saharia, J. ,2007, An ergonomic study of occupational health hazards of the employees of 'IT enabled' organizations in India, paper presented in International Conference on Frontier Research in Integrative Physiology (ICFRIP), Kolkata , India.

Dhar, U., Salve, R., Savanur, C. and **Amitabha De** , 2007, A comparative study of lower limb muscle strength of Indian college students and European population; age group 20–25 years, paper presented in International Conference on Frontier Research in Integrative Physiology (ICFRIP), Kolkata, India.

Mittal, I., Agrawal, P., Sarkar, A., Chaurasia, N., Munshi, R., Pal, A., Deshmukh, D. S., Thakur, A., Nayak, M.K. & **Amitabha De** , 2007, A preliminary investigation of indoor thermal environment in India, 4th Congress of Federation of Indian Physiological Societies (FIPS), New Delhi, India.

Savanur C. S., Altekar C. R. and **Amitabha De** , 2007, An Ergonomic study of school classroom furniture, paper presented in 4th Congress of Federation of Indian Physiological Societies (FIPS), New Delhi, India.

Dhar U., Savanur C., Salve R. and **Amitabha De**, 2007, A comparative study of back muscle strength of Indian college students and European population age group 20–25 years, paper presented in 4th Congress of Federation of Indian Physiological Societies (FIPS), New Delhi, India.

Ghosh Sanchita, Mukhopadhyay Suman, Ghosh Tushar Kanti, and **De Amitabha** , 2007, Aerobic fitness and motor ability related fitness: are they correlated?, paper presented in 4th Congress of Federation of Indian Physiological Societies (FIPS), New Delhi, India..

Savanur C.S., Altekar, C. and **Amitabha De**, 2007, Lack of conformity between Indian classroom furniture and student dimensions: proposed future seat/ table dimensions, *Ergonomics*, 50, 1612 - 1625

Dhar U., R. Salve and **Amitabha De**, 2007, A study of musculoskeletal health of the workers in jewellery manufacturing in India, paper presented in and Proc. International Ergonomics Conference HWWE 2007, Bhopal, India.

Savanur C., Dhar, U., S. Ghosh, Wani, S., Salve, R., **Amitabha De** , 2007, A study of fatigue among school children, paper presented in and Proc. International Ergonomics Conference HWWE 2007, Bhopal, India.

Ghosh S., Suman Mukhopadhyay , **Amitabha De** and Tushar Kanti Ghosh, 2007, a comparison of cardiopulmonary fitness levels and recovery responses amongst sedentary Indian males and females, paper presented in and Proc. International Ergonomics Conference HWWE 2007, Bhopal,, India.

Amitabha De, T Mogare, J Saharia and N.S. Naik, 2007, Development of a bench marking tool – safety management system in industry, paper presented in and Proc. International Ergonomics Conference HWWE 2007, Bhopal, India

Amitabha De, Savanur C, R. Ambastha, P. Rao, Singh P, W. Mishra and Ghosh S., 2008, Application of System Usability Scale (SUS) for Comparative Evaluation of Classroom Chairs with Writing Tablets and Traditional Table and Chair Arrangements, paper presented in and Proc. International Conference HWWE 2008, Pune, India.

U. Dhar, A.M. Chandra, R. Salve and **Amitabha De**, 2008, Changes in feeling of fatigue after certain duration of work exposure on workers of Jewellery Manufacturing sector in India, paper presented in and Proc. International Ergonomics Conference HWWE 2008, Pune, India

Rauf Iqbal, **Amitabha De**, Mogare T, Saharia J and P.C.Ghosh, 2008, Ergonomics Evaluation of A Modern Office System, paper presented in and Proc. International Ergonomics Conference HWWE 2008, Pune, India

Sanchita Ghosh, Debmalya Banerjee, Rauf Iqbal, **Amitabha De**. 2008, 'Relationship of BMI with other body composition profiles of sedentary adult male in the age group of 50-60 years, paper presented in and Proc. the International Ergonomics Conference, Vishwakarma Institute of Technology, Pune, India.

Somnath Gangopadhyay, Wricha Mishra and **Amitabha De**, 2008, Ergonomics Study On Development of Musculoskeletal Disorder (MSD) Among Indian Tabla and Drum Players, paper presented in and Proc. International Ergonomics Conference, Vishwakarma Institute of Technology, Pune, India.

Amitabha De, Iqbal R, Ghosh S, G. Subbulakshmi, 2009, An Integrative Model of Assessment for Health and Fitness Levels of Employees Engaged in Service Organizations, paper presented in and abstract 96th Indian Science Congress. January 3-7, 2009, Shillong, Meghalaya.

Amitabha De , Rauf Iqbal and Madhuri Kamble, 2009, Effect of prosthetic feet on the gait and loading of the sound and amputated limbs in trans-femoral amputees. , accepted for presentation in the Joint Conference: paper presented and abstract 4th Asia Pacific Conference on Exercise and Sports Science & 8th International Sports Science Conference 15th – 17th July 2009.

Rauf Iqbal, **Amitabha De** and Minakshi Sharma, 2009, Effect of prosthetic feet on the gait and loading of the sound and amputated limbs in trans-tibial amputees accepted for presentation in the Joint Conference: paper presented and abstract 4th Asia Pacific Conference on Exercise and Sports Science & 8th International Sports Science Conference 15th – 17th July 2009.

Sanchita Ghosh, **Amitabha De**, Rauf Iqbal, 2009, Debamalya Banerjee, S. Mukhopadhyay, Sane S M, Comparison of body composition profile of the workers of manufacturing and service sector, abstract, 4th Asia Pacific Conference on Exercise and Sports Science & 8th International Sports Science Conference 15th – 17th July 2009.

Amitabha De, Iqbal R., Bendale K., Nigale K., Ghosh S. ,Mishra W., Parmar V. and Chandra A.M., 2009, A Study of Health and Fitness Status of Indian White Collar Workers, abstract , XX Annual Conference of Physiological Society of India, Kolkata, India.

Mishra W., **Amitabha De**, Iqbal R., Parmar V., Gangopadhyay S. and Chandra A.M , 2009, Work Related Musculoskeletal Disorders in Office Employees - A Pilot Study, paper presented and abstract, XX Annual Conference of Physiological Society of India, Kolkata, India.

Amitabha De, Iqbal R., Dhar U., Mishra W., Parmar V. and Chandra A.M., 2009, A Study of the Effect of Extended Working Hours on Fatigue, Health and Well Being, paper presented in and Proc. International Ergonomics Conference HWWE 2009, Kolkata, India

Mutakekar M., Manna I., Dhar U., Chandra A. M., and **Amitabha De**, 2009, A Study of General Health Status of Workers Engaged in Jewellery Manufacturing, paper presented in and proc. International Ergonomics Conference HWWE 2009, Kolkata, India

Mishra W., **Amitabha De**, Iqbal R., Gangopadhyay S. and Chandra A.M. , 2009, An Integrative Approach for Evaluating Work Related Musculoskeletal Disorder, paper presented in and proc. International Ergonomics Conference HWWE 2009, Kolkata, India

Sanchita Ghosh, Rauf Iqbal , Debamalya Banerjee and **Amitabha De**, 2009, Indirect estimation of body fat percentage from BMI of the workers in service sector, proc. International Ergonomics Conference HWWE 2009, Kolkata, India

Amitabha De, Iqbal R., Mishra W., Parmar V. , Bendale K. and Chandra A.M. A Study of Health and Fitness Status of Indian Adult Male- Age Group 20 – 29 yrs, paper presented in and abstract 97th Indian Science Congress, Trivandrum, 3-7 January, 2010.

Amitabha De, T Mogare, **Saharia J** and Iqbal R, 2010, Ergonomic Evaluation Of Modern Office System in an IT Enabled Organization in India, paper presented in and proc. International Joint Conférence- APCHI-Ergo Future 2010 ,2-6 August 2010.

Rauf Iqbal, P.K Sarkar and **Amitabha De**, 2010, Study on musculoskeletal stress and working posture of VDT users and ergonomic intervention, paper presented in and proc. International Joint Conference- APCHI-Ergo Future 2010 ,2-6 August 2010

Amitabha De, Iqbal R, Bendale K., Ghosh S., Mishra W., Parmar V. and Chandra A.M. ,2011 Health and fitness status of Indian white collar employees, paper presented and published in book of abstracts in 98th Indian Science Congress, SRM University, Chennai, 3-7 January, 2011

Mishra W, **Amitabha De** and Chandra A.M. ,2011, playing related musculoskeletal disorders in tabla players of west bengal, presented and published in book of abstracts in 98th Indian Science Congress, Chennai, 3-7 January, 2011.

Sanchita Ghosh, Rauf Iqbal, Debamalya Banerjee and **Amitabha De**, Relationship of waist girth with body fat percentage of adult male workers in service and manufacturing sector, Indian Journal of Physiology and Allied Sciences (in press)

Publications Under communication

Sanchita Ghosh **Amitabha De**, Rauf Iqbal, Debamalya Banerjee and Suman Mukhopadhyay, Relationship of Body Mass Index with somatotype of adult male workers from service and manufacturing sectors in International Journal of Fitness

Mishra W., **Amitabha De**, Iqbal R., Gangopadhyay S. and Chandra A.M, An Integrative Approach for Evaluating Work Related Musculoskeletal Disorders in WORK: A Journal of Prevention, Assessment, and Rehabilitation

Teaching, Research and Consultancy Experience: Total Teaching and Research Experience 34 years.

Name of the Institution	Period		Designation	Description of work
	From	To		
Vidyasagar College, Kolkata	Feb, 1977	May, 1977	Lecturer (Temporary)	Teaching
Department of Physiology , Calcutta University, Kolkata	June,1977	Nov, 1982	Research Fellow	Research
Reghudeb Bati Sadharaner Vidyalyaya , Howrah, West Bengal,India	Aug,1983	April, 1984	School Teacher	Teaching
NITIE , Vihar Lake, Mumbai 400 072	May, 1984	Jan,1986	Lecturer	
	Jan, 1986	June,1989	Assistant Professor	Teaching, Research,
	June, 1989	May,1993	Associate Professor	Training, Consultancy
	May, 1993	Till date	Professor	

Subjects Taught

PG Courses

Industrial ergonomics, human factors in engineering and design, physical working environment, OHSAS 18000, SHE (safety, health, environment) standards and legislations, work systems analysis, human physiology, job evaluation and incentive schemes, work system design, industrial safety management, industrial engineering & productivity management.

Diploma Programme (DErg):

Work system design, physical working environment, work & exercise physiology, ergonomics standards, applied anthropometry and biomechanics, human factors and ergonomic methods.

Management Development Programme /In-company Programme

Human factors engineering, industrial ergonomics, work study, work system design, work measurement, organization & methods, industrial safety management, industrial hazard & risk management, ergonomics of manual material handling.

Courses/ Curriculum Developed

Responsible for the development of curriculum titled “Post Graduate Diploma in Industrial Safety and Environmental Management (PGDISEM)“, approved by All India Council of Technical Education (AICTE), Government of India. The programme launched at NITIE in 2001.

Responsible for the development of curriculum titled “Post Graduate Diploma in Industrial Design and Human Factors (PGDIDHF)”, M. Tech. level programme: approved by NITIE Board of Governors.

Responsible for the development of curriculum titled “Postgraduate Diploma in Exercise, Sports and Nutrition (PGDESN)” - A Masters Level Programme: approved by NITIE Board of Governors.

Responsible for the development of curriculum titled “Diploma in Ergonomics (DErg)”: approved by NITIE Board of Governors. Programme launched at NITIE in 2007.

Contribution to the Institute

Enlistment of Postgraduate Programmes of NITIE in the academic programme list of International Ergonomics Association (IEA).

Establishment of Technology Information, Forecasting and Assessment Council (TIFAC) Centre of Relevance and Excellence (CORE) in Ergonomics and Human Factors Engineering (CEEHFE) – TIFAC-CORE NITIE through TIFAC (DST), Government of India, under Technology Mission 2020.

Inclusion of Ergonomics programme @nitie in the 10th and 11th Five Year Plans of the Institute.

School of Ergonomics and Human Factors Engineering (one of its kind in India) has been approved in principle by NITIE Board of Governors, awaiting for the approval of MHRD, Govt. of India.

Member, Perspective Plan (repositioning NITIE) Committee, 2004 – till date

Member Estate Management Committee 2003 – till date (Committee responsible for infrastructure development at NITIE)

Administration and policy making services

Member, NITIE Board of Governors, 2003-2004, 2008-2009

Dean (Research), 2008-2009

Member Board of Research

Member PGP Committee

Member, Board of Studies, Industrial Engineering and Production Engineering, Vishwakarma Institute of Technology, Pune, India (2007-2008).

Member Board of Examiners, Indian Institute of Industrial Engineering (2001-2002)

Facilities Developed at NITIE

Kinesiology and Biomechanics Laboratory : Facilities to enhance the biomechanical productivity in the areas of industrial and occupational activities, sports and exercise, medical rehabilitation and to demonstrate and communicate the same to the ergonomists, occupational health specialists, safety professionals, sports personnel, coaches, physician, trainers, therapists and workers.

Work and Exercise Physiology Laboratory : Facilities for generation of occupational, gender, region specific ergospirometry data, physiological basis of classification of work, planning and scheduling of jobs, evaluation of ergospirometry performance of human being with functional limitations, establishment of pathological basis of exercise intolerance.

Human Centred Design Laboratory and Design Studio: Facilities for human centred design solution to product and infrastructure and for evaluation and testing of products, infrastructures and facilities for their usability, effectiveness and efficiency.

Physical Work Environment Laboratory: Facilities to carryout environmental studies in field situations for thermal, Illumination and noise levels.

Conference, Seminar and Diploma Programme Organized:

Ergo - Office 2003: A national workshop

HWWE 2004: A national conference on Humanizing Work and Work Environment

Workshop on Ergo Methods, Guidelines and Standard ,2005

Diploma in Ergonomics: Planned, organized and coordinated the Diploma in Ergonomics (DErg Programme) in NITIE, the programme is the first of its kind in India.

Consultancy

Larsen & Toubro, Mumbai, India (Area - Ergonomics).

Hindustan Petroleum Corporation Limited, Mumbai, India (Area-Ergonomics).

Gharda Chemicals Ltd., Mumbai, India (Area - Business Process Re- engineering).

Indian Institute of Bankers, Mumbai, India (Area - Organization and Management Study).

Merind Limited, Mumbai, India (Area - Manpower Planning and Work Rationalization- Manufacturing process).

Merind Limited, Mumbai, India (Area - Manpower Planning and Work Rationalization Quality, maintenances and warehouse).

Golden Tobacco Company, Mumbai, India (Area - Manpower Planning and Work Rationalization).

I.T.C. ILTD, Guntur (Partly involved) India (Area - Ergonomics and Manpower Planning & Work Rationalization).

United Phosphorous Limited, Vapi, India (Area - Manpower Planning and Work Rationalization).

Indo Burma Petroleum (IBP) India Limited, Mumbai, India (Area - Ergonomics, Manpower Planning and Work Rationalization).

Jet Airways, Mumbai, India (Area - Manpower Planning and Work Rationalization).

Ariane Orgachem Private Limited (Mumbai) (Area - Productivity Improvement and optimum utilization Study).

Oman Air Service, Oman – (Area - Industrial Engineering in Air port Services –Passenger and Ramp services).

Ranbaxy Laboratories Ltd., Toansa (area - Industrial Engineering Study)

Jute manufacturing Development Council(JMDC), Productivity Improvement and TQM facilitation, Jute technology Mission , Govt. of India. (on going project)

Activities at National Level

Represented NITIE in the National Safety Award and Vishwakarma Award Committee of Ministry of Labour and Welfare, Government of India.

Represented TIFAC-CORE NITIE in evaluating ergonomics standards for Bureau of Indian Standards (BIS)

Represented TIFAC-CORE NITIE in the evaluation of Tepp proposals – A scheme of Department of Science and Technology and Department of Scientific and Industrial Research, Government of India

Expert Member, Review Committee, review of projects under XI five year plan, DIPAS, DRDO, New Delhi

Member, Bureau of Indian Standards, Ergonomics Committee

Member, Bureau of Indian Standards Work Study (Work-rest evaluation) Committee

Sectional Recorder, Medical Sciences (including Physiology), Indian Science Congress Association, 2011 and 2012

Honours & Recognition

Recognized Ph.D. guide and supervisor of

National Institute of Industrial Engineering (NITIE), Mumbai, India.

Department of PG Studies and Research, Family Resources Planning, SNDT Woman's University, Mumbai, India.

Department of Physiology, University of Calcutta, Kolkata, India.

Depart of Production Engineering, Jadavpur University, Kolkata, India

Served a 6-Year term as a member of the Industrial Ergonomics Sub-Committee of International Ergonomics Association (IEA).

Recognized expert in Ergonomics - International Ergonomics Association (IEA).

Chairperson of "Job Analysis & Design" session of XIII Annual International Occupational Ergonomics & Safety Conference 1998 held at Michigan, USA.

Jury Member of National Award Committees of Packaging Machine Design and Development - PACMACHINE 1998, 2000.

Chairman of Juries of National Award Committee of Packaging Machine Design and Development - PACMACHINE 2002.

Awarded Prize along with C. V. Chaudhary - a student of 30th Batch of PGDIE, at TECHFEST 2001, IIT Mumbai.

Director's citation for exemplary service, awarded by NITIE.

Rated by the Post Graduate Students of NITIE, as one of the outstanding instructors, January – April 2004 and June – September 2004 sessions.

Professional Association

Life Member of the Physiological Society of India, Kolkata, India.

Life Member and Vice President - Indian Society of Ergonomics, Kolkata, India.

Life Member of National Safety Council of India, Mumbai, India

Life Member of Indian Institution of Industrial Engineering, Mumbai, India.

Life Member Indian Science Congress Association

Universities & Institutions (Academic Involvements)

Department of Physiology, University of Calcutta, West Bengal, India.

Department of Physiology and Community Health, Vidyasagar University, West Bengal, India.

Department of Post Graduate Studies & Research in Home-Science, SNDT Women University, Mumbai, India.

Central Labour Institute, Government of India, Mumbai, India.

Indian Institute of Industrial Engineering, Mumbai, India.

Hobbies

Reading, listening music, recitation and cooking.

My Family

Father: Took Part in Indian Freedom Struggle and was associated with Bhoodan movement

Mother: Retired primary school teacher.

Wife: Teacher Campus School, Indian Institute of Technology, Bombay (IITB).

Daughter: M.Sc. (Statistics), Mumbai University, working in HDFC bank