



ERGONOMICS WORKPLACE ANALYSIS

PROF.URMI R. SALVE

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IIT Guwahati

PRE-REQUISITES : Minimum Graduation with an understanding of Basic Ergonomics

INTENDED AUDIENCE : Master Degree and PhD

COURSE OUTLINE :

Ergonomic workplace analysis is a process where the ergonomic risk factors were evaluated using various validated tools and provide the probable recommendation to minimize the risk factors for development of work related musculoskeletal disorders and improve the productive workday to reduce the cost for compensation, absenteeism and employee turnover. In the process of ergonomic workplace analysis, an ergonomist need to evaluate the physical work environment, psychosocial risk factors as well as various generic risk factors which leads to the development of work related musculoskeletal disorders. This course is based on the complete process evaluation of EWA.

ABOUT INSTRUCTOR:

Prof. Urmi Ravindra Salve, PhD (Ergonomics and human Factors) Assistant Professor, Department of Design, IIT Guwahati Area of interest: Human Factor Engineering, Occupational Ergonomics, Cognitive.Ergonomics, Research Methodology Ph. D in Science (Ergonomics) from Calcutta University. Dr Salve has expertise in Human Factor Engineering, Research Methodology, Cognitive Ergonomics, Occupational Health Related Problem, Human Physiology, etc.She has almost ten years research experience in the field of ergonomics and human factors engineering in different research bodies including TIFACCORE NITIE, National Institute of Industrial Engineering, Mumbai, India. She further worked in the field of Occupational Hygiene at National Institute of Miners Health, Department of Mines, Govt. of India. She has more than 22 full study and abstract publication on the national and international journals and conference proceedings.

COURSE PLAN :

Week 1: Overview of Ergonomics and understanding of Ergo-system Overview of ergonomic workplace analysis

Week 2: Classification of techniques used in Ergonomics research

Week 3: Subjective assessment tool and Methods Postural evaluation

Week 4: Measurement of Work Effort and Fatigue