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**RESTRUCTURING OF UNIVERSITY LABORATORIES WITHIN THE SCOPE OF
OCCUPATIONAL HEALTH AND SAFETY**

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Abstract

It is quite important to build up the culture of occupational health and safety, which becomes a discipline that has increasing importance day by day in our country as well as the World; in laboratories which are already exist or will be established in universities, and supply sustainability of this culture.

Laboratories are considered to be dangerous environments as a place of work and may carry many risk factors that can cause occupational accidents. It is very important that laboratory users should follow the regulations and safety rules in order to eliminate or minimize the risks of increasing infectious diseases, working with hazardous biological, chemical and radioactive substances, and electrical accident associated with low/high-voltage.

Within this scope; each laboratory that is already exist or will be established in universities, should be structured according to their special intended purpose through detections and suggestions of experts/specialists and academicians who work in relevant field, and Personal Protective Equipment (PPE) should be supplied to laboratory users according to their working area. Building designs should be created by making a prediction work for all risks that can occur. An emergency action plan should be generated by determining accidents and emergency situations, and regulations in this plan should be performed.

In this study, laboratory design and equipment, which are arranged according to precautions that are taken against to physical, chemical, radioactive, and biological risks regarding to work environment or personal aspects at these work environments in laboratories that are already exist or will be established in universities, are discussed according to legislation and regulations of Occupational Health and Safety Law.No. 6331. In addition, in this study, a lot of examples of Occupational Health and Safety applications of leading university laboratories in the World have been given.

Keywords:*Laboratory safety, safety components, safety culture*

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