

Food Safety and Laws 3(3-0)

Theory

Pakistan Standards and Quality Control Authority: functions, authorities, standards. Pure Food Rules - 2007: definitions, significant features, enforcement, amendments. Food inspector and public analyst: qualifications, duties, powers. Food adulteration: adulterants, health hazards, methods of detection. Food labelling: perspectives on nutrition labeling. Islamic food laws and regulations: sources, principles, lawful foods, unlawful foods. Consumer laws in Pakistan. International food laws: introduction. The World Trade Organization (WTO) - the agreement on the application of sanitary and phytosanitary measures. GATT. Codex Alimentarius: general, procedural manual, standards, codes, legal force. Toxicology: definition, dose-response, absorption, translocation, storage excretion, food toxicology. Toxicity by naturally occurring food toxins: plant origin – accidental toxicity, haemagglutinins, goitrogens, cyanogens, lathrogens, others; animal origin – honey, quail, eggs, milk, meat, fish. Toxicity by extraneous chemicals: agricultural chemicals, food processing, packaging, additives, adulterants. Toxicity from water. Microbial toxins: mycotoxins – moulds, mushrooms.; bacterial food intoxication; bacterial food infections. Food allergy and intolerance. Systems for food safety surveillance – GMP, TQM, HACCP and FSMS-ISO22000:2005.

Books Recommended

1. PSQCA (Pakistan Standards and Quality Control Authority). 2010. Standards for different food items. PSQCA, Karachi, Pakistan.
2. Meulen, B. and Velde, M. 2008. European food law handbook. Academic Publishers, Wageningen, The Netherlands.
3. Government of the Punjab. 2008. The Punjab Pure Food Rules – 2007. The Punjab Weekly Gazette. Government Printing Press, Lahore, Pakistan.
4. Riaz, M.N. and Chaudhary, M.M. 2004. Halal food production. CRC Press Taylor & Francis Group, Boca Raton, Florida, USA.
5. Khan, M.S. 1999. Consumer laws in Pakistan. Consumer Rights Commission of Pakistan, Islamabad, Pakistan.
6. Awan, J.A. and Anjum, F.M. 2010. Food toxicology. Unitech Communications, Faisalabad, Pakistan.
7. Shibamoto, T and Bjeldanes, L. 2009. Introduction to food toxicology, 2nd ed. Academic Press, London.
8. CAC (Codex Alimentarius Commission). 2007. Codex Alimentarius Commission – Procedural manual. Joint FAO/WHO Food Standards Programme. FAO, Rome, Italy.
9. ISO (International Standards Organization). 2005. Food safety management systems – requirements for an organization in the food chain. Case Postale, Geneva, Switzerland.

Website: www.foodscienceuniverse.com