Dairy Science Park, proposed courses on Biorisk Management at Khyber Medical University Peshawar

PG Core COURSE: Bio Risk Management (from Fall 2017)

Code: BMS 784 (For M.Phil and PhD all Lab Based Sciences. Some of the courses will also be attended by public health, Nursing and paramedics students)

Credit Hours: (2)

Duration: 16 Weeks

No. of Lectures: 32

Objectives:

1. To empower students with the skills, tools, and confidence on sustainable bio risk management.
2. To enable them to apply principles of biosafety and biosecurity in facilities.
3. To reduce/eliminate the risk of infection in laboratory setting.

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<th>Concepts/Contents</th>
<th>No. of lectures</th>
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<tr>
<td>1 Overview of BRM: purpose, importance, application, terminologies, definitions</td>
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<td>2 Classification: of Biological materials, Risk groups</td>
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<td>3 Levels of Biocontainment Labs: Level 1, 2, 3, 4</td>
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<tr>
<td>4 Biorisk Assessment: Identification and characterization</td>
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<td>5 Biorisk mitigation: Engineering control, administrative control, pactices and procedures, PPE</td>
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<td>6 Biorisk Performance: Analysing, Monitoring and Evaluating the system for assurance and improvement</td>
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<td>7 Incident/Emergency management and response system</td>
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<td>8 Principles of laboratory biosecurity: components of a lab biosecurity program, bioterrorism, developing a biosecurity program</td>
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<td>9 Waste management: collection, segregation, transportation, storage and disposal</td>
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<td>10 Roles and responsibilities of Laboratory personnel/awareness and education</td>
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<td>11 Standard Operating Procedures: Developing, Evaluating, Validating, and Communicating</td>
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