

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.*

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