<table>
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<tr>
<th>DVM Semester</th>
<th>BRM Courses Integration</th>
<th>BRM Knowledge Level</th>
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<tbody>
<tr>
<td>Semester 1:</td>
<td>No integration</td>
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| Semester 2:  | General Veterinary Microbiology *(Basic concepts of biosafety/biosecurity *BS&S in microbiology lab practical session)* | Introduction to the BS&S, relevant terminologies and required examples During Lab practical
  - 1 contact hour required |
| Semester 3:  | General Veterinary Pathology *(Basic concepts on sample collection and sample transportation)*
  - Molecular Biology *(BRM intro – AMP model –basics only)* | Basic sample collection and transportation concepts During the Practical session of tissue processing through adding dual use of research project ideas.
  - 1 contact hour required
  - Intro to BRM and basics AMP model
  - 1 contact hour required |
| Semester 4:  | Livestock Feed Resources and Forage Conservation *(BRM Risk Assessment, basics of hazards/threats Identification and risk characterization process)*
  - Veterinary Bacteriology and Mycology *(Basic concepts of Good Lab Work Practices *GLWP and Personal Protective Equipment *PPE)*
  - Systemic Veterinary Pathology *(Intro to SOPs development and Basic concepts of Decontamination process)* | BRM Risk Assessment process with basic concepts of hazards/threats Identification and risk characterization During Theory session
  - 1 contact hour required
  - Basic intro to Good Lab Work Practices *GLWP and Personal Protective Equipment *PPE During Practical session
  - 2 contact hours required
  - Introduction to SOPs development and basic concepts of spill kits/Decontamination process During Practical session
  - 1 contact hour required |
| Semester 5:  | Veterinary Clinical Pathology *(Risk Assessment –hazard/threats identification process and Risk communication)*
  - Veterinary Virology *(Intro to Biocontainment facilities)* | Intermediate Risk assessment – hazards/threats identification process and Risk Communication During practical session
  - 1 contact hour required
  - Introduction to the concept of risk |
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<th>Semester 6:</th>
<th>Semester 7:</th>
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| • Medicine Clinic-1 *(Basic Field Biosecurity and Characterization of Waste Disposal)*  
• Theriogenology Clinic – I *(Animal health worker’s safety and security)*  
• Zoonoses and Food Safety *(Planning and Assessment- 6 topics from policy planning of BRM)*  
• Meat Inspection and Necropsy Practice *(Intro to PPE, Bio Waste management and disposal, Documentation and proper reporting for QA/QC)* | • Veterinary Preventive Medicine-II *(Developing need assessment and building Human capacity for BRM)*  
• Medicine Clinic-II *(Incident Management and Response)*  
• Theriogenology Clinic – II *(Evaluate Human performance for BRM in Lab)*  
• Beef and Mutton Production | • Introduction to the basics of Field Biosecurity and the characterization of biological wastes disposal *During* Clinical session  
• Introduction to animal health worker’s safety and security *During* Clinical session | • Introduction to Developing need assessment and building Human capacity for BRM *During* Theory session  
• Introduction/demo to the concepts of Incident Management and response *During* Practical session  
• Human performance evaluation in BRM Lab *During* Theory and Practical |  
• Introduction to the Bioethics Concepts *During* Theory session  
• 1 contact hour required |  
• Basic introduction to the concepts of BRM Planning and Assessment *During* Practical session  
• Introduction to the concepts of PPE, Waste management system, Documentation and proper reporting for QA/QC in meat inspection and Necropsy practices.  
• 2 contact hours required |  
• 1 contact hour required |  
• 1 contact hour required |
| Semester 8: | **(Developing SOPs for food processing facilities)** | • Developing biosafety SOPs for food processing facilities *During Practical session*  
  ○ 1 contact hour required |
|-----------|---------------------------------------------------|-------------------------------------------------------------------------|
|           | • Veterinary Epidemiology and Public Health *(BRM principles used in Epidemiology and Public Health field)*  
  • Medicine Clinic III *(Evaluating, measuring and improving overall BRM performance)* | • Introduction to BRM principles used in Epidemiology and Public Health Field *During Theory session*  
  ○ 1 contact hour required  
  • Evaluating, measuring and improving overall BRM performance in clinic settings based on available standards *During Practical session*  
  ○ 1 contact hour required |
| Semester 9: | • Poultry Pathology (Lab design principles for implementation of BRM)  
  • Medicine Clinic-IV *(Basic/Preliminary Administrative control for BRM)* | • Basic introduction to the concepts of Lab design principles for implementation of BRM *During Practical session*  
  ○ 2 contact hour required  
  • Basic/Preliminary introduction to the Administrative control for BRM *During Clinics session*  
  ○ 1 contact hour required |
| Semester 10: | **No integration** | |

**Contact:**

Engr Irfan ul Haq Qureshi, President Dairy Science Park, 23-A, Industrial Estate Hayatabad, Peshawar-25000, Pakistan; tel +92 301 894 5994; email i.quraysh@gmail.com; http://dairysciencepark.org.pk/