**SEMESTER I & II**  
**LSM3232 MICROBIOLOGY**

**Prerequisite:** LSM2101 or LSM2102 or LSM2103  
**Workload:** 26 lecture hours + 21 laboratory hours + 2 tutorials + 1 CA

Principles of microbiology, with emphasis on the properties, functions and classification of the major classes of microorganisms, especially bacteria, fungi and viruses. Understanding microbial activities and their influence on microbial diseases, industrial applications, ecology, food and water quality.

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<th>S/N</th>
<th>Topics</th>
<th>Lecture hours</th>
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<td>Semester I</td>
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<tr>
<td>1</td>
<td>Scope of microbiology: the diversity of the microbial world and microbial taxonomy</td>
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<td>2</td>
<td>Microbial structure and function: microbial physiology, microbial nutrition and microbial growth</td>
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<td>Environmental microbiology</td>
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<td>5</td>
<td>Medical microbiology: Microbial diseases and their control</td>
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**Practicals (7 x 3 hours)**

1. Basic Microscopy & Staining  
2. Physiological effects on microbial growth  
3. Microbial physiology  
4. Medical microbiology  
5. Food microbiology  
6. Environmental microbiology  
7. Water microbiology

Total Lectures: 26 hours  
Total Practicals: 21 hours  
Tutorials: 2 hours  
CA: 1 hour  
**Total hours:** 50

**TEXTBOOKS (Reference books):**

**MODE OF ASSESSMENT:**
40% Continuous Assessment  
60% Final Examination

**MODULE COORDINATOR:**  
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