SEMESTER I & II
LSM3232 MICROBIOLOGY

Prerequisite: LSM2211 or LSM2232 or LSM2233
Workload: 26 lecture hours + 21 laboratory hours + 2 tutorials + 1 CA

Course description:
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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<tr>
<th>S/N</th>
<th>Topics</th>
<th>Lecture hours</th>
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<tbody>
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<td></td>
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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>
<td>2 [STS]</td>
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<td>2</td>
<td>Microbial structure and function: microbial physiology, microbial nutrition and microbial growth</td>
<td>8 [STS]</td>
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<td>3</td>
<td>Food microbiology</td>
<td>8 [JC / LYK]</td>
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<td>4</td>
<td>Environmental microbiology</td>
<td>4 [STS]</td>
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<td>5</td>
<td>Medical microbiology: Microbial diseases and their control</td>
<td>4 [KT]</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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LECTURERS:
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