Course Name: AZ-General Microbiology Field: Laboratory Science Semester 3G1 School: Paramedical

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| session | day | date | time | topic | lecturer |
| 1 | Monday  |  | 8-10 | Introduction to Bacteriology Laboratory, Safety tips and tools |  |
| 2 | Monday |  | 8-10 | Microscope (dissection, procedure and examination of the prepared slides) |  |
| 3 | Monday |  | 8-10 | Sterilization (Four, Autoclave) |  |
| 4 | Monday |  | 8-10 | Identification of different culture media, manufacturing methods and sterilization (filter, tendalnization) |  |
| 5 | Monday |  | 8-10 | Techniques for isolation, culture and transfer of microbial samples |  |
| 6 | Monday |  | 8-10 | Preparation of microbial spread, gram and simple staining and microscopic examination |  |
| 7 | Monday |  | 8-10 | Fast acid staining (performed) - flagellum and nuclear material (theory) |  |
| 8 | Monday |  | 8-10 | Spore staining (examination) of capsules and fat granules (theory) |  |
| 9 | Monday |  | 8-10 | Albert Staining (perform and Checking) and Special Staining (Theory) |  |
| 10 | Monday |  | 8-10 | Antibiogram (disk diffusion) |  |
| 11 | Monday |  | 8-10 | Antibiogram (MIC, MBC, Etest) |  |
| 12 | Monday |  | 8-10 | Fermentation of carbohydrates in media (KIA, TSI and IMViC) |  |
| 13 | Monday |  | 8-10 | H2S production test in different cultures, urease and nitrate, phenylalanine-lysine-bile tests |  |
| 14 | Monday |  | 8-10 | Catalase and coagulase tests, oxidase and CAMP and OF tests |  |