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| **Day** | **Data** | **Time** | **Subject** | **Tutor** |
| **Saturday** |  | 8-10 | Pre-test (Theoretical) | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 10:30 - 11:30 | Importance of malaria, malaria parasites, life cycle of malaria parasites | Prof. Nateghpour |
|  | 11:30 – 12: 30 | Media & animals using for malaria parasites culture | Prof. Nateghpour |
|  | 15:30 – 17 | Laboratory practice: Demonstration of malaria Injection in small saurian mice  | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 17:30 – 19 | Preparing of thin blood samples of mice and Staining | Dr. Motevalli Haghi |
| **Sunday**  |  | 8 – 10 | Laboratory practice: P. falciparum continues culture-1, Freeze thaw & culture | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 10:30 – 12:30 | Laboratory practice: Morphology of *P. berghei*  in thin films-1 | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 15:30 -17 | Laboratory Practice: Morphology of *P. berghei*  in thin films-2 | Prof.Nateghpour and Dr.Motevalli Haghi |
|  | 17:30 -18 | Counting of *P. berghei*  parasites in thin films  | Prof. Nateghpour, Dr. Motevalli Haghi |
|  | 18-19 | Some other organisms and artifacts may be observed in blood films  | Dr. Motevalli Haghi |
| **Monday** |  | 8-10 | Laboratory practice: *P. falciparum* continues culture-2, Exchange media & preparing thin blood smear & staining | Prof. Nateghpour, c Dr. Motevalli Haghi |
|  | 10:30 – 12:30 | Laboratory practice: Morphology of *P. falciparum* in culture media using thin films- 1 |  Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 15:30 – 17 | Laboratory practice: Morphology of *P. falciparum* in culture media using thick films-2 | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 17:30 – 19 | Counting of *P. falciparum* parasites in thin films  | Prof. Nateghpour and Dr. Motevalli Haghi |
| **Tuesday** |  | 8-9 | Assessment of antimalarial drugs activity and chemotherapy of malaria | Prof. Nateghpour |
|  | 9-10 | In vitro test  | Prof. Nateghpour, Dr. Motevalli Haghi |
|  | 10:30 – 12: 30 | Laboratory practice: Assessment of effectiveness of drugs on parasites in culture media | Prof. Nateghpour, Dr. Motevalli Haghi |
|  | 15:30 – 17 | Laboratory practice: Diagnosing *P. falciparum* in thick films  | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 17:30 -19 | Mid – course practical examination | Prof. Nateghpour and Dr. Motevalli Haghi |
| **Wednesday** |  | 8-10 | Laboratory practice: Parasite counting ( in vitro test) | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 10:30 – 11:30 | Laboratory practice: Diagnosing *P. falciparum* in thick and thin films and comparing between them | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 11:30 – 12:30 | Laboratory practice: Comparing *P. falciparum* morphology between patients’ blood smear& culture staining 1 | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 15:30 -17 | Laboratory practice: Comparing *P. falciparum* morphology between patients’ blood smear& culture staining 2 | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 17:30-19 | Laboratory practice: Diagnosing malaria parasites in unknown blood films - preparing for post- tests | Prof. Nateghpour and Dr. Motevalli Haghi |
| **Thursday** |  | 8 - 9:30 | Discussion | Prof. Nateghpour |
|  | 9:30 - 11: 30 | Post-test(Theoretical & Practical) | Prof. Nateghpour and Dr. Motevalli Haghi |
|  | 11:30 – 12:30 | Closing ceremony |  |

**Malaria microscopy short course**

**Course Director: Prof. Mehdi Nateghpour**

**Course Facilitator: Dr. Afsaneh Motevalli Haghi**