# **SCID307 Separation Techniques**

# **2(1-2-3)**

**Semester 2 Academic Year 2020**

# **(Apr 1 – May 30, 2021)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Time** | **Topic** | **Staff** | **Room** |
| Th 1 Apr 2021 | 13:00-15:00 | General principles of separation | OI | Salaya (TBA) |
| Fri 2 Apr 2021 | 13:00-15:00 | Introduction to column chromatography | SK | Salaya (TBA) |
| We 7 Apr 2021 | 13:00-15:00 | Chromatography: HPLC, FPLC | SK | Salaya (TBA) |
| Th 8 Apr 2021 | 13:00-15:00 | Electrophoresis | TS | Salaya (TBA) |
| Fri 9 Apr 2021 | 13:00-15:00 | Centrifugation | LJ | Salaya (TBA) |
| We 21 Apr 2021 | 13:00-17:30 | Team-based learning:  Virtual protein purification lab  **Assignment: Virtual lab homework (Due April 30 at 13:15 )** | OI, RN and  1TA | Salaya (TBA) |
| Th 22 Apr 2021 | 13.00-17.30 | Brief lab  Lab 1: Buffer preparation | RN, TS, Tso and 1TA | MDL3 |
| Fr 23 Apr 2021 | 13.00-17.30 | Lab 2: Cell lysis, PEI and Ammonium sulfate precipitation | RN, TS, Tso and 1TA | MDL3 |
| We 28 Apr 2021 | 13.00-17.30 | Lab 3: DEAE column and protein assay | RN, TS, Tso and 1TA | MDL3 |
| Th 29 Apr 2021 | 13.00-17.30 | Lab 5: Enzyme assay | RN, TS, Tso and 1TA | MDL3 |
| Fr 30 Apr 2021 | 13.00-17.30 | Lab 6: SDS-PAGE  Virtual lab homework presentation | RN, TS, Tso and 1TA | MDL3 |
| Fr 7 May 2021 | - | Lab report due at 16.00 at K419 | RN |  |
|  |  | Examination |  |  |