|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Lesson plan | |  |  |
| Name of the Faculty | | : | RAHUL JANGRA | |  |  |
| Discipline | | : | DMLT | |  |  |
| Semester | | : | 3rd | |  |  |
| Subject | | : | TM | |  |  |
| Lession Plan Duration: | | | 15 weeks (from July, 2018 to Nov, 2018) | |  |  |
| Work load ( Lecture / practical ) per week ( n hours) = Lecture=3, Practical=6 | | | | | |  |
|  |  |  |  |  |  |  |
| WORK | THEORY |  |  |  | Practical |  |
|  |  |  |  |  |  |  |
|  | Lecture Day |  | Topic (Including assignment/test} |  | Practical | Topic |
|  |  |  |  |  | Day |  |
| 1st | 1 |  | Historical introduction to Transfusion |  | L1 | Performing ABO blood grouping by |
|  |  |  | medicine (blood banking |  |  | Slide & Tube Test |
|  | 2 |  | Definition of antigen and antibody |  |  |  |
|  | 3 |  | Classification of antigens |  |  |  |
| 2nd | 4 |  | Classification of antibodies. |  | L2 | Performing-Rh grouping by Slide & |
|  |  |  |  |  |  | Tube technique |
|  | 5 |  | Introduction to ABO blood grouping |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 6 |  | Antigens and antibodies involved in |  |  |  |
|  |  |  | ABO blood grouping |  |  |  |
| 3rd | 7 |  | Principle and procedure of ABO blood |  | L3 | Performance of Coombs Test by |
|  |  |  | grouping Slide method |  |  | Direct method |
|  | 8 |  | Principle and procedure of ABO blood |  |  |  |
|  |  |  | grouping Tube method |  |  |  |
|  | 9 |  | Various blood sub groups ( A1,A2, A1B, |  |  |  |
|  |  |  | A2B) |  |  |  |
| 4th | 10 |  | Assignment |  | L4 | Performance of Coombs Test by |
|  |  |  |  |  |  | Indirect method |
|  | 11 |  | Introduction to Rh Blood Group System |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 12 |  | Antigen and antibody involved in Rh |  |  |  |
|  |  |  | blood grouping |  |  |  |
| 5th | 13 |  | Principle and procedure of Rh grouping |  | L5 | Cross Matching (compatibility |
|  |  |  |  |  |  | testing) by Major testing |
|  | 14 |  | Variant of D antigen |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 15 |  | Types and composition of various |  |  |  |
|  |  |  | anticoagulants |  |  |  |
|  |  |  |  |  |  |  |
| 6th | 16 |  | Advantages and disadvantages of |  | L6 | Cross Matching (compatibility |
|  |  |  | various anticoagulants |  |  | testing) by Minor testing |
|  |  |  |  |  |  |  |
|  | 17 |  | Criteria for selection of Donor |  |  |  |
|  |  |  |  |  |  |  |
|  | 18 |  | Screening of blood donor for Blood |  |  |  |
|  |  |  | Collection and storage |  |  |  |
| 7th | 19 |  | Characteristics of ideal blood donor. |  | L7 | Preparation of anticoagulants – |
|  |  |  |  |  |  | ACD (Acid Citrate Dextrose) – |
|  | 20 |  | Blood collection procedure |  |  |
|  |  |  |  | CPD ( Citrate Phosphate Dextrose) - |
|  |  |  |  |  |  |
|  | 21 |  | Transportation and storage |  |  | CPDA (Citrate Phosphate Dextrose |
|  |  |  |  |  |  | Adenine) |
|  |  |  |  |  |  |  |
| 8th | 22 |  | Screening of blood donors for MP |  | L8 | Malarial Parasite test by Thick |
|  |  |  |  |  |  | smear preparation |
|  | 23 |  | Staining of blood film for MP |  |  |  |
|  |  |  |  |  |  |  |
|  | 24 |  | Slide test for VDRL |  |  |  |
|  |  |  |  |  |  |  |
| 9th | 25 |  | VDRL Buffer Saline test |  | L9 | Malarial Parasite test by Thin |
|  |  |  |  |  |  | smear preparation |
|  | 26 |  | ELISA based HIV test |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |