

# CURRICULUM

## M.D. (IMMUNOHAEMATOLOGY AND BLOOD TRANSFUSION)

Veer Narmad South Gujarat University Surat

Evaluation scheme [applicable from academic year 2019- 2020]

Faculty: Medical

Name of course: Immunohaematology and Blood Transfusion (IHBT)

Degree: M.D. Immunohaematology and Blood Transfusion

Duration of Course: 3 Years [6 academic terms]

### **ASSESSMENT SYSTEM:**

[1] Formative: [a] continuous assessment of postgraduate student during 3 years.

[b] quarterly assessment 1: journal based /recent advances

2: patient based/laboratory skills

3: self directed learning & teaching

4: Departmental/interdepartmental learning

[As per the curriculum, training in allied department and at Gujarat cancer research institute, Ahmadabad, the duration of training may be variable or shortened and to be determined as per the admission & availability of post graduate students in the department]

5: external/outreach/CME based

[As per MCI PG rules, it is desirable that post graduate student should have one research paper to be published in indexed journal and should have represented one poster in national conference of ISTM/ISBTI/ISTM or in ATM [International].

The student should have attended Immuno hematology workshops/symposiums/outreach programs /visiting lectures at National level.

[c] Periodic: As per Annexure 1

[2] Summative [end of training; as per MCI PG regulations 2000]

[1] Thesis

- submission before 6 months of examination;
- to be assessed by separate set of 3 three examiners
- One internal & two external examiners, which are not assessing Theory & practical examination.
- Post graduate student is allowed to appear in examination after acceptance of thesis by university.

[2] Theory:

- For MD IHBT 4 papers; each consists of 3 hours and 100 marks;
- Total theory assessment of 400 marks
- 50% marks to be obtained in individual papers for passing.
- For Theory paper setting, either of two options can be followed.

Option I:	TOTAL 100
[1] One structured essay question	20 marks
[2] Six short answer questions	6*10= 60 marks
[3] Two problem based analysis/interpretation	2*10=20 marks

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Option 2:	TOTAL 100
Ten short answer questions (10*10)	= 100 Total marks
[1] Six [.....]	
[2] Four questions [Problem Based Analysis /Interpretation]	

**[3] Practical: [Clinical& oral] examination for 2 days]**

**Total 600 marks**

The Schedule of exercises & distribution of marks, to be arranged by examiners so that It should be completed accordingly. If candidates are more than 6, then the days of practical examination should be Increased proportionately.

[a] Long Immuno hematology exercise 200

-Consisting Minimum 6 exercises [work stations] varying each from 30 -90 minutes;

-covers all aspects of transfusion medicine including Antenatal serology,

Alloantibody & Autoantibody detection & Identification, Transfusion reaction

Work-up, followed by oral viva-voce.

[b] Clinical short case [6 cases /each PG student] 200[b&c]

-Administrative issues: Operation of Blood Transfusion Services  
(Donor management, inventory, aphaeresis & Transfusion Transmitted Infections Screening)

-Short exercises (Blood group discrepancy, Component Preparation, Quality Control of reagents & kits), will be followed by oral viva-voce.

(c) Hemotherapy exercises & short cases consisting of:

- Basic hematology – Hb, Hct, Platelet count, PBS examination, WBC  
Count, BT/CT, PT/ APTT etc.

-Specialized techniques – component preparation, stem cell isolation,  
Cryopreservation, automation etc, followed by viva-voce.

[d] ] Spotting ; Total 10\*5 [25+25]

Includes [1] 5 spots related with clinical/laboratory situations 25

[2] 5 spots are OSPE [objective structural practical ex.] 25

[d Oral examination/Viva voce 100

Student will be assessed by all the examiners together, regarding Knowledge of subject, comprehension, analytical approach, expression & data interpretation.

[e] Communication/presentation skill—Discussion

Thesis- 10 minute Power point presentation 50

### III) INTERNAL ASSESSMENT OF THE CANDIDATE

Periodic internal assessment of the candidate by the department

#### Final marking scheme for MD Immunohaematology & Blood Transfusion

Heads of Passing	Maximum Marks	Minimum marks for passing
Theory	400	200
Practical and viva-voce	600	300
<b>Total marks</b>	1000	500

The Prototype distribution of marks to be arranged in mark sheet as follows

Sr.no.	Clinical Long case 225 Includes 3[a] long ex. 200 3d[1] spot 25	Clinical short cases 225 Includes 3 [b]short exe.200 3d[2] spot ospe 25	Total clinical 450 [225+225]	Viva voce/oral 150 Includes 3[c]thesis 50 3[e] oral 100	Total practical 600
Candidate1					
Candidate2					

It is compulsory for the candidate to pass in theory and practical examination separately in the same attempt.