



**Total Marks**

20

**Main References (Text Books):**

# Emery's ELEMENTS OF MEDICAL GENETICS



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For additional online content visit  
[StudentConsult.com](http://StudentConsult.com)

**References for More Reading:**

Main Reference: Elements of Medical Genetics Emery's (15<sup>th</sup> Edition)

-Other References: -Thompson & Thompson, Medical Genetics

- - Medical Genetics, Jorde-Carey-Bamshad-White

Essential pages of the main reference are determined in the course timetable

**Student's Responsibilities:**

- Before each section, having studied the content of the related session.
- Attending the classes on time
- Attending the exams, assays and doing homework

**Attendance Rules:**

- Actively attending the course discussions in the classes
- Asking questions related to the session topics
- Being able to answer to the questions asked by the lecturer
- Using cell-phone is forbidden.

**Department's Attitudes:**

To provide accurate, necessary and precise information about each session, by expert academic staff on each topic

**Mid Exam Date:** To be determined

**Final Exam Date:** To be determined

## Genetics Course Schedule

NO	Main Topic	Teacher's Name	Reference	Date 2-4 PM
1	The History of Medical Genetics and Molecular Basis of Inheritance	Dr. M. Zeinalian	Emery: Ch 1.2	04/12/11 2026/March/2
2	Human genome and Chromosomes	Dr. Z. Taherian	Emery: Ch 3,4	04/12/13 2026/March/4
3	Genetic variants and Polymorphisms	Dr. M. Zeinalian	Emery: Ch 2 Tompson: Ch 4	04/12/20 2026/March/11
4	Monogenic inheritance patterns	Dr. Z. Taherian	Emery: Ch 6 Tompson: Ch 7	04/12/27 2026/March/18
5	Non-classic inheritance patterns	Dr. M. Zeinalian	Emery: Ch 6 Tompson: Ch 7	05/01/19 2026/Apr/8
6	Common Chromosome disorders	Dr. Z. Taherian	Emery: Ch 17	05/01/26 2026/Apr/15
7	Cancer Genetics	Dr. M. Zeinalian	Emery: Ch 14	05/02/02 2026/Apr/22
8	Congenital Abnormalities and Dysmorphic Syndromes	Dr. Z. Taherian	Emery: Ch 16	05/02/09 2026/Apr/29
9	Common Monogenic disorders	Dr. M. Zeinalian	Emery: Ch 18,19	05/02/16 2026/May/06
10	The genetics of Hemoglobin disorders	Dr. Z. Taherian	Emery: Ch 12	05/02/23 2026/May/13
11	Polygenic and Multifactorial Inheritance	Dr. M. Zeinalian	Emery: Ch 10	05/02/30 2026/May/20
12	Risk Calculation and Genetic Counseling	Dr. Z. Taherian	Emery: Ch 8, 21	05/03/06 2026/May/27
13	Personalized Medicine and Treatment of Genetic Disease	Dr. M. Zeinalian	Emery: Ch 15	05/03/13 2026/June/03
14	Common Molecular and genetic diagnostic techniques	Dr. Z. Taherian	Emery: Ch 5	05/03/20 2026/June/10
15	Stem Cells and Regenerative Medicine	Dr. M. Zeinalian	Last papers	05/03/27 2026/June/17
16	Genetic screening and Prenatal Diagnosis	Dr. Z. Taherian	Emery: Ch 11, 20	Makeup