

**MGM SCHOOL OF BIOMEDICAL SCIENCES,  
NAVI MUMBAI**  
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)



## **M. Sc. Clinical Embryology**

(As per **CHOICE BASED CREDIT SYSTEM** With effect  
From the academic year 2018-2019)

<b>Semester I</b>							
<b>Sr. No.</b>	<b>Syllabus Ref. No.</b>	<b>Subject</b>	<b>Credits</b>	<b>Teaching hours</b>	<b>Marks</b>		
	<b>Theory</b>				<b>Internal Assessment</b>	<b>Semester Exam</b>	<b>Total</b>
1	CE 101 T	Relevant Gross Anatomy	4	4	20	80	100
2	CE 102 T	Histology	3	3	20	80	100
3	CE 103 T	Genetics and Reproductive Hormone	4	4	20	80	100
4	CE 104 T	General & Systemic Embryology	4	4	20	80	100
	<b>Practical</b>						
1	CE 101 P	Relevant Gross Anatomy	2	4	10	40	50
2	CE 102 P	Histology	2	4	10	40	50
3	CE 103 P	Genetics and Reproductive Hormone	2	4	10	40	50
4	CE 104 P	General& Systemic Embryology	2	4	10	40	50
		<b>Total</b>	23	31	120	480	600

<b>Semester II</b>							
	<b>Syllabus Ref. No.</b>	<b>Subject</b>	<b>Credits</b>	<b>Teaching hours</b>	<b>Marks</b>		
	<b>Theory</b>				<b>Internal Assessment</b>	<b>Semester Exam</b>	<b>Total</b>
	CE 105 T	Infertility & Ovulation induction methods	4	4	20	80	100
	CE 106 T	Quality assessment, statistics, handling data, ethics, legislation	4	4	20	80	100
	CE 107 T	IVF procedure	4	4	20	80	100
	CC 001 T	Research Methodology & Biostatistics (Core Course)	4	4	20	80	100
	<b>Practical</b>						
	CE 105 P	Infertility & Ovulation induction methods	2	4	10	40	50
	CE 106 P	Quality assessment, statistics, handling data, ethics, legislation	2	4	10	40	50
	CE 107 P	IVF procedure	2	4	10	40	50
	CC 001 P	Research Methodology & Biostatistics (Core Course)	2	4	10	40	50
		<b>Total</b>	24	32	120	480	600

<b>Semester III</b>							
<b>Sr. No.</b>	<b>Syllabus Ref. No.</b>	<b>Subject</b>	<b>Credits</b>	<b>Teaching hours</b>	<b>Marks</b>		
	<b>Theory</b>				<b>Internal Assessment</b>	<b>Semester Exam</b>	<b>Total</b>
	CE 108 T	Introduction to IVF lab	3	3	20	80	100
	CE 109 T	Techniques used in IVF Lab	4	4	20	80	100
<b>Core Elective course**</b>							
	CE 110 T	ICSI	4	4	20	80	100
	CE 111 T	Biochemistry including steroid metabolism					
	CE 112 T	Lab equipment					
	CE 113	Dissertation/Project Proposal*	6	12	50	-	50
<b>Practical</b>							
	CE 108 P	Introduction to IVF lab	2	4	10	40	50
	CE 109 P	Techniques used in IVF Lab	2	4	10	40	50
<b>Core Elective practical</b>							
	CE 110 P	ICSI	1	2	10	40	50
	CE 111 P	Biochemistry including steroid metabolism					
	CE 112 P	Lab equipment					
	CE 114	Seminar*	1	2	50	0	50
		<b>Total</b>	23	35	190	360	550

Semester IV								
Sr. No.	Syllabus No.	Ref.	Subject	Credits	Teaching hours	Marks		
	<b>Theory</b>					<b>Internal Assessment</b>	<b>Semester Exam</b>	<b>Total</b>
1	**		<b>General elective</b>					
	GE 001 T		Pursuit of Inner Self Excellence (POISE)	4	4	100	-	100
	GE 002 T		IPR & Bioethics ▲(Multidisciplinary/ Interdisciplinary)					
	GE 003 T		Disaster management and mitigation resources					
	GE 004 T		Human rights					
2	CE 113		Dissertation / Project*	18	36	-	200	200
	<b>Practical</b>							
1	CE 115 P		Educational Tour / Field Work/Industrial Visit/Hospital Visit*	2	0	50	-	50
	<b>Total</b>			24	40	150	200	350

\*(a) *Dissertation / Project Course* commences in III Semester

(b) *Educational Tours / Field Works* Course may be carried out in any Semester or all Semesters but evaluated and Grade Points are to be added in 4<sup>th</sup> Semester.

**(Elective): Any one subject is to be chosen from the following** (Subjects offered may change from time to time depending on the availability of expertise)

\*\*Elective courses may or may not have practical and/or field work.

▲ Multidisciplinary / Interdisciplinary

#### **EDUCATIONAL/INDUSTRIAL TOUR:**

Industrial visit has its own importance in building a career of a student which is pursuing a professional degree. Objections of industrial visit are to provide students an insight regarding internal working of reputed hospitals and labs. Industrial visits provides students an opportunity to learn practically thoughts interactions, working methods and employment practices as theoretical knowledge is not enough for making a competent and skilful professionals.