

SPECIFIC LEARNING OBJECTIVES FOR STUDENTS

S.N.	DATE, DAY & TIME	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
1.	1.05.2017 to 15.05.2017	VACATION LEAVE		
2.	16.05.2017 Tuesday 8.30AM-9.30AM	ANATOMY CLASS		
3.	17.05.2017 Wednesday 10.30AM-12.30PM Lecturer:- Dr.D.Sultan Sheriff	HORIZONTAL INTEGRATED TEACHING		
4.	18.05.2017 Thursday 9.30AM-10.30AM Lecturer:- Dr.K.Gunanithi	Topic: Translation and genetic code. 1. Genetic code - definition. 2. Characteristics of the genetic code – universal, unambiguous, degenerate, without punctuation (continuous/comma less). 3. Basis of degeneracy of the genetic code (wobble hypothesis). 4. Components of eukaryotic ribosomes. 5. Structure of tRNA (diagram of clover leaf model of tRNA structure) and its function in protein synthesis. 6. Function of amino acyl tRNA synthase.	1. Overview of the process of translation – initiation, elongation and termination. 2. Inhibition of prokaryotic translation by antibiotics. Post-translational modifications – examples	
5.	19.05.2017 Friday 9.30AM-10.30AM Lecturer : Dr.K.Gunanithi	Mutations and regulation of gene expression Mutations: 1. Definition. Mutagens- examples of physical, Chemical and biological mutagens. 2. Types of mutations: Point mutation (deletion, insertion, substitution – transition and trans version, frame shift mutation,	1. Relationship of mutations with specific diseases – E.g, sickle cell anemia and chronic myeloid Leukemia.	1. Prokaryotes: The operon concept in Prokaryotes (using Lac operon as an example). 2. Eukaryotes: Overview of regulation of initiation of eukaryotic

		Missense mutation, nonsense mutation and silent mutation chromosomal mutations (deletion, inversion and		transcription: role of general and gene specific transcription
6.	20.05.2017 Saturday 8.30AM-9.30AM Lecturer :- Dr.D.Sultan Sheriff	Recombinant DNA technology and techniques in Molecular biology: 1. Importance and applications of recombinant DNA technology importance and applications of polymerase chain reaction (PCR).	1. Restriction Endonucleases. 2. Vectors for cloning to plasmids and phages. Genomic and DNA libraries. 2. Principles and applications of techniques in molecular biology: (Southern, northern and western blotting, restriction fragment length polymorphism [RFLP])	
7.	20.05.2017 Saturday 1.30PM-3.30PM Lecturer:- All Faculties	CLASS TEST		
8.	22.05.2017 Monday 3.30PM-4.30PM Lecturer:- Dr.D.Sultan Sheriff	1. Applications of recombinant DNA technology in medicine. General principles of production of therapeutic proteins, e.g., insulin Gene therapy Diagnosis of genetic diseases and genetic counseling Forensic investigation		
9.	23.05.2017 Tuesday 8.30AM-9.30AM Lecturer:- Dr.D.Sultan Sheriff	OVER VIEW :- MOLECULAR BIOLOGY		
10.	25.05.2017 Thursday 9.30AM-12.30PM	IIIRD INTERNAL ANATOMY THEORY EXAMINATION		

OM SAKTHI
MELMARUVATHUR ADHIPARASAKTHI INSTITUTE OF MEDICAL SCIENCE & RESEARCH
DEPARTMENT OF BIOCHEMISTRY
1ST MBBS -2016-17 BATCH OF PRACTICAL & TUTORIAL TEACHING SCHEDULE MAY-2017

Month : MAY 2017			
Practical & Tutorial Total Teaching hours : 20 hours			
Time : 1.30 PM to 3.30 PM			
S.NO	DATE & DAY	TOPIC TO BE COVERED	TEACHING STAFF
1	16.05.2017 Tuesday	PRACTICAL DEMONSTRATION : 1. ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD.	DR.K.GUNANITHI/ DR.S.SALEEM BASHA MR.KPS, DR.NHB, DR.MSK, DR.SSSG
		TUTORIAL : 2. GROUP DISCUSSION: REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTAN SHERIFF DR.S.SAKTHI DASAN
2	17.05.2017 Wednesday	PRACTICAL DEMONSTRATION : 1. ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD.	DR.K.GUNANITHI/ DR.S.SALEEM BASHA MR.KPS, DR.NHB, DR.MSK, DR.SSSG
		TUTORIAL: 2. GROUP DISCUSSION: REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTAN SHERIFF DR.S.SAKTHI DASAN
3	18.05.2017 Thursday	PRACTICAL DEMONSTRATION : 1. ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD.	DR.K.GUNANITHI/ DR.S.SALEEM BASHA MR.KPS, DR.NHB, DR.MSK, DR.SSSG
		TUTORIAL: 2. GROUP DISCUSSION: REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTAN SHERIFF DR.S.SAKTHI DASAN
4	22.05.2017 Monday	PRACTICAL DEMONSTRATION & UNKNOWN SAMPLE 1. ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD.	DR.K. GUNANITHI/ MR.K.P.SHIVA GOVINDAN DR.SSB, DR.NHB, DR.MSK, DR.SSSG
		TUTORIAL : 2. GROUP DISCUSSION: REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTAN SHERIFF DR.S.SAKTHI DASAN
5	23.05.2017 Tuesday	PRACTICAL - UNKNOWN SAMPLE 1. ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD.	MR.K.P.SHIVAGOVINDAN/ DR.S.SALEEM BASHA DR.KG, DR.NHB, DR.MSK, DR.SSSG
		TUTORIAL: 2. CHART WORK - REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTAN SHERIFF DR.S.SAKTHI DASAN

6	24.05.2017 Wednesday	PRACTICAL - UNKNOWN SAMPLE 1. ESTIMATION OF BIOCHEMICAL ANALYTE (PROTEIN) IN BLOOD - BIURET METHOD	MR.K.P.SHIVAGOVINDAN/ DR.S.SALEEM BASHA DR.KG , DR.NHB, DR.MSK, DR.SSSG
		TUTORIAL: 2. CHART WORK - REPLICATION, TRANSCRIPTION, TRANSLATION.	DR.D.SULTAN SHERIFF DR.S.SAKTHI DASAN
7	25.05.2017 Thursday 9.30AM- 12.30PM	IIIRD INTERNAL ANATOMY THEORY EXAMINATION	
8	29.05.2017 Monday Lecturer:- All Faculties	IIIRD INTERNAL ORAL & PRACTICAL EXAMINATION – “C”	
9	30.05.2017 Tuesday Lecturer:- All Faculties	IIIRD INTERNAL ORAL & PRACTICAL EXAMINATION – “A”	
10	31.05.2017 Wednesday Lecturer:- All Faculties	IIIRD INTERNAL ORAL & PRACTICAL EXAMINATION – “B”	

All Teaching Staff

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| 1. DR.D.Sultan Sheriff | -Dr.DSS |
| 2. Dr.S. Sakthi Dasan | -Dr.SSD |
| 3. Dr.K.Gunanithi | -Dr.KG |
| 4. Dr.S.Saleem Basha | -DR.SSB |
| 5. Mr.K.P.Shiva Govindan | -Mr.KPS |
| 6. Dr.N.Hari Babu | - Dr.NHB |
| 7. Dr.M. Saravana kumar | -Dr.MSK |
| 8. Dr.S.S.Sakthi Gnanavel | -DR.SSSG |

S. Sakthi Dasan
Dr.S. Sakthi Dasan
In charge
Head of the Biochemistry Dept.