

In The Name of God
Department of Physiology
The Medical School
Shiraz University of Medical Sciences
ADVANCED CELL PHYSIOLOGY
(M.Sc. In Physiology)
1st Semester (1393-94)

Place: Dept. of Physiology, Time:Monday, 9-12

<u>Date</u>	<u>Title</u>	<u>Lecturer</u>
	Transmembrane Transport (Phys: Ch.1)	
	Diffusion & Osmosis	M.H
	Protein-Mediated Transport I	"
	Protein-Mediated Transport II	"
	Resting Membrane Potential (Phys: Ch.2)	
	Ionic Equilibria & Resting Membrane Potential	"
	Passive Electrical Properties of the Neuron I	"
	Electrical Properties II & Propagation Action Potential	"
	Action Potential (Phys: Ch.3)	
	Voltage Clamp Technique	"
	Ion Channels I	"
	Ion Channels II	"
	Ion Channels III & Generation of Action potential	"
	Synaptic Transmission (Phys: Ch.4)	
	Neuromuscular Junction	A.Z
	Neuronal Synapses (I)	"
	Neuronal Synapses (II)	"

<u>Date</u>	<u>Title</u>	<u>Lecturer</u>
	Muscle (Phys: Chs. 17,18,19)	
	Contractile Mechanism of Muscle Cells	M.V
	Skeletal Muscle Physiology	"
	Smooth Muscle Contraction	"
	Control of Smooth Muscle Contraction	"

Abbreviation:

M.V= Dr M. Varedi, Ph.D

A.Z= Dr A. Zarifkar, Ph.D

M.H= Dr M.Haghani, Ph.D

TEXTBOOK:

Phys= Physiology (Last edition) by R.M. Berne& M.N. Levy

REFERENCES:

Principles of Neural Science (2000) by E.R. Kandel, *et al*

Cell Physiology Source Book (2001) by N. Sperelakis

Molecular Biology of the cell (2008) by B.Alberts, *et al*

Best and Taylors Physiological Basic of Medical Practice (1990) by J.B. West

The Axon CNS Guide (2006) by R. S. Gold

Cellular and Molecular Neurophysiology (2008) by C. Hammond

Ion Channel and Disease (Last edition) F. Ashcroft