

## Module 1.0

# Homeostasis, Membranes, Electrophysiology and ANS

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| Homeostasis                        |
| Homeostasis Defined                |
| Homeostatic Control Systems        |
| Feedback Response Loop             |
| Cell Transport; Water & Solutes    |
| Fluid Compartments                 |
| Osmosis                            |
| Diffusion of Solutes               |
| Active Transport                   |
| Bulk Transport                     |
| Electrophysiology                  |
| Ions and Cell Membranes            |
| Membrane Potentials                |
| Graded Potential                   |
| Action Potentials                  |
| Refractory Periods                 |
| Propagation of an Action Potential |
| The Synapse                        |
| The Autonomic Nervous System       |
| Organization of the Nervous System |

|                                                            |
|------------------------------------------------------------|
| Structural Organization of the ANS                         |
| The SNS and the PNS                                        |
| The Enteric Nervous System                                 |
| Physiology of the ANS                                      |
| Neurotransmitters of the ANS                               |
| Receptors of the ANS                                       |
| Actions of the Autonomic Nervous System                    |
| Table of Actions for the SNS and PNS and Some Common Drugs |



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