



आत्मानं जानीहि

CHEMISTRY OF THE MIND (COGNITIVE SCIENCE AND PHILOSOPHY OF MIND)

Course Details

Objective this course is demonstrate and practice through exercises the basis of scientific theory, principles, and laws resulting in the knowledge. By using examples of neuroscience and chemistry an attempt would be made to learn how scientific knowledge is created, and what happens to the knowledge. In the process, it is expected students will learn how to use the mind to create knowledge, and in the process learn about the mind itself.

Course Objective and Outline

- Introduction to Mind and Chemistry – chemical and philosophical concept of mind and consciousness, Crick's and Schrodinger's concept of mind and soul (Lecture 1)
- Mind and Creation of Science - mind and matter, concepts of science, ideal gas and kinetic theory of gases, origin of thermodynamics and the concept of inefficiency (Lecture 2)
- Models of Mind - thermodynamic (free energy and entropy) and quantum (states) models of mind (Lectures 3-5)
- Physical Instruments of Mind – general description of nervous system, evolution of nervous system in animals, common and distinct features of different nervous systems (Lectures 6-7)
- Tools of Mind – Sensory and motor nervous systems (inter- and intra-systemic relationships, regulatory nervous system (Lecture 8)
- Mode of Action of Mind – electronic properties of axon and dendrites, thermodynamics of membrane potential and action potential, neurotransmitters and their release (Lectures 8-9)
- Origin of Mind – Is the brain cause or result of mind? Mind as a creator or perceiver (Lecture 10)
- Chemical Basis of Mind – chemical analogies, description, hypotheses and explanation of mind (student presentations) (Lectures 11-12)
- Regulation of Mind – yoga, meditation, art, nature, and environmental influence on mind (Lecture 13)

About the Instructor

Dr. Singh is a leading expert on protein structure, protein folding and functions, botulinum toxins and biodefense agents. He is the founder of Prime Bio. Inc., a leading product and service provider, and Institute of Advanced Sciences. A Professor with an interest in teaching innovative biotechnology, Ayurvedic biotechnology physical biochemistry, biochemistry, biological spectroscopy, fluorescence spectroscopy for biochemists, chemistry of the mind, biochemistry laboratory, and science of yoga. Field of research: Protein Chemistry, Botulinum and Tetanus Toxin Research, Education, Ayurvedic Research and Vedic Philosophy.



Dr. Bal Ram Singh

COURSE FEE: USD: \$100 | INR: Rs. 4500/-

Course Delivery: Online Platform Course

Duration: Fourteen Weeks/3.5 Month