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Estd. 1916

**Vishwavidyanilaya Karyasoudha
Crawford Hall, Mysuru- 570 005**

No.AC.2(S)/384/14-15

Dated: 28.05.2016

01-6

NOTIFICATION

Sub: Revised syllabus with credit pattern of M.Sc. in Psychology from the Academic Year 2016-17.

Ref: 1. Decision of the Faculty of Science & Technology Meeting held on 16.02.2016.

2. Decision of the Academic Council meeting held on 29-03-2016.

The Board of Studies in Psychology (PG) which met on 27-11-2015 has resolved to complete CBCS credit pattern for Semester I to IV has been revised and re-organized as follows. Including modified syllabus for Semester-I Hard Core Paper – Basic Genetics, Evolution & Behaviour, Credit Pattern:2-1-0 from the academic year 2016-17.

Revised Syllabus with Credit Pattern

Biological Foundations of Behavior

Unit I: Introduction

Nature of biological psychology and its scope; Mind Brain relationship; Methods of study of research-anatomical methods, lesion techniques, stereotaxic surgery, micro-electrode studies, chemical methods, scanning/imaging/ERP methods; and Ethical issues in research.

Unit II: Neurons and neuronal conduction

Structure of neurons, types, functions, neural conduction, Synaptic conduction, Neurotransmitters, Organization of nervous system, ventricular system, cerebrospinal fluid, Blood –brain barrier.

Unit III: Central and peripheral nervous system

Major structures and functions: Brain and spinal cord- Fore brain, Mid-brain, Hind brain, Cerebral cortex, temporal, parietal and occipital lobes; prefrontal cortex. Peripheral nervous system: Cranial Nerves, Spinal Nerves, Autonomous nervous system.

Unit- IV: Basic behavioral genetics

Structure of nucleic acids (DNA and RNA); protein synthesis (replication/translation); cell division. Behavior genetics: Scope; methods (experimental – selective breeding; inbred strains; mutation; foster rearing); humans – pedigree analysis, twins analysis, MAVA; Inheritance of learnability (animals).

BOOKS FOR STUDY AND REFERENCE

Hay, D. 1985. Essentials of Behavior Genetics. Blackwell, London.

Levinthal, C.F. 1996. Introduction to Physiological Psychology. 3rd Edition. Prentice Hall of India, New Delhi.

Credit Pattern :

Semester 1	Hard Core	Biological Foundations of Behavior	2	1	0	3
Semester 1	Hard Core	Basic genetics, Evolution, and Behavior	2	1	0	3

Unit-1: Diversity of life; Structure of genes; Protein synthesis; Cell division

Unit-2: Mendel and post Mendellian developments

Unit-3: EVOLUTION

Unit-4: Behavior genetics – Introduction; Methods.

Book:

Genetics – Monroe W. Strickberger, New Delhi: Prentice Hall India, 2004. 3rd Edition

The Faculty of Science and Technology and the Academic Council at their Meetings held on 16.02.2016 and 29.03.2016 respectively have also approved the above said proposal and the same is hereby notified.

Draft approved by the Registrar

Deputy Registrar (Academic)

To:

- 1) The Dean, Faculty of Science & Technology, DOS in Earth Science, Manasagangotri, Mysore.
- 2) The Chairperson, Board of Studies in Psychology (PG), Manasagangotri, Mysore.
- 3) The Chairperson, Department of Studies in Psychology (PG), Manasagangotri, Mysore.
- 4) The Director, College Development Council, University of Mysore, Mysore.
- 5) The Principal, Maharani's College, Mysore.
- 6) The Coordinator, Directorate of Online & Outreach Programme, Parakalamatta, Manasagangotri, Mysore.
- 7) The Deputy/Assistant Registrar/Superintendent, Academic Section, Administration Branch, University of Mysore, Mysore.
- 8) The Deputy/Assistant Registrar/Superintendent, Examination Branch, University of Mysore, Mysore.
- 9) The P.A. to the Vice-Chancellor/Registrar/Registrar(Evaluation), UOM., Mysore.
- 10) Office file.

Science Notification-2016-17 Ja