**GAU, Faculty of Humanities**

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| **Course Unit Title** | Biological Bases of behavior |
| **Course Unit Code** | PSY 204 |
| **Type of Course Unit**  | Compulsory, all psychology students |
| **Level of Course Unit**  | Second year, Bachelors Degree  |
| **National Credits** | 3 |
| **Number of ECTS Credits Allocated** | 6 ECTS |
| **Theoretical (hour/week)** | 3 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 4 |
| **Mode of Delivery**  | Face to Face, E-Learning activities |
| **Language of Instruction**  | English |
| **Prerequisities and co-requisities**  | Introduction to Psychology I-II (PSY 101-102) |
| **Recommended Optional Programme Components**  | None |
| **Objectives of the Course:** |
| * This course is designed to provide comprehensive knowledge about major topics of behavioural neuroscience that studies neural mechanisms of perception and behaviour.
* This field of psychology takes an empirical and practical approach when studying the brain and human behaviour. Thus, the course is designed to give the basic knowledge related to the connection between the brain and human behaviour..
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| **Learning Outcomes** |  |
| When this course has been completed the student should be able to | Assesment. |
| 1 | Histology and cell biology of neurons and glia  | 1 |
| 2 | Ionic bases of resting membrane potential  | 1,2 |
| 3 | Ionic bases of action potential. Cable properties, summation properties, and threshold for action potental | 1,2 |
| 4 | Synaptology and ionic bases of presynaptic exocytosis; Ionic bases of postsynaptic potentials.  | 1,3 |
| 5 | Chemical / electrical neurotransmission; Survey of chemically-gated channels. Introduction to psychopharmacology.. | 1,2 |
| 6 | Introductory anatomy of brain, cranial nerves, and spinal cord. Basic functional / clinical neuroanatomy.  | 1 |
| 7 | Visceral (autonomic) nervous system | 1,2 |
| Assesment Methods: 1. Written Exam, 2. Assignment 3. Project/Report, 4.Presentation, 5 Lab. Work |
| **Course’s Contribution to Program** |
|  |  | CL |
| 1 | Ability to identify the current and historical core content of and what is known in psychology. | 4 |
| 2 | Differentiate the various areas of Psychology and identify what is known in each. | 5 |
| 3 | Ability to show familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology. | 2 |
| 4 | Ability to apply psychological content and skills to career goals. | 3 |
| 5 | Ability to identify, and evaluate construct and critically analyze complex arguments. | 4 |
| 6 | Ability to apply basic research methods in psychology, with sensitivity to ethical principles. | 3 |
| 7 | Ability to identify the writing format of the American Psychological Association (APA). | 4 |
| 8 | Ability to understand the role of academic, professional, and personal integrity in maintaining a healthy community. | 4 |
| 9 | Ability to recognize and describe the ways in which diversity influences psychological processes. | 3 |
| 10 | Ability to distinguish important behavioral factors associated with personal and cultural diversity that enable intervention process in therapy. | 4 |
| 11 | Ability to demonstrate effective communication skills following professional conventions in psychology appropriate to purpose and context. | 5 |
| CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate 4: High, 5:Very High) |

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| **Course Contents** |
| Week |  |  | Exam**s** |
| 1 |  | Introduction: Class Policies/Procedures |  |
| 2 |  | Structure and Functions of Cells in the Nervous System  |  |
| 3 |  | The Membrane Potential  |  |
| 4 |  | The Action Potential |  |
| 5 |  | The Synaptic Potential  |  |
| 6 |  |  Neurotransmitters and Neuromodulators  |  |
| 7 |  | Revisions | Quiz |
| 8 |  |  | Mid Term |
| 9 |  | Central Nervous System  |  |
| 10 |  | The Spinal Cord |  |
| 11 |  | The Autonomic Nervous System  |  |
| 12 |  | Touch, Hearing, |  |
| 13 |  | Taste, Smell / Vision |  |
| 14 |  | Revision |  |
| 15 |  |  | Final |
| **Recommended Sources** |  | Revision session |
| **Textbook** :  **Biopsychology (7th Ed., 2009) by John P. J. Pinel,** **published by Allyn & Bacon,** **ISBN 9780205593880 .****Supplementary Material (s):**  |
| **Assessment** |
| Attendance | % |  |
| Laboratory | % |  |
| Midterm Exam (Written) | 30% |  |
| Quiz (Written) | 20% |  |
| Final Exam (Written) | 50% |  |
| Total | 100% |  |
| **ECTS Allocated Based on the Student Workload** |
| Activities | Number  | Duration (hour)  | Total Workload(hour) |
| Course duration in class (including the Exam week)  | 15 | 3 | 45 |
| Labs and Tutorials |  |  |  |
| Assignments | 8 | 3 | 24 |
| Project/Presentation/Report Writing  |  |  |  |
| E-learning Activities |  |  |  |
| Quizzes | 2 | 10 | 20 |
| Midterm Examination | 1 | 14 | 14 |
| Final Examination | 1 | 28 | 28 |
| Self Study  | 14 | 3 | 42 |
| Total Workload  | 173 |
| Total Workload/30 (h) | 5.76 |
| ECTS Credit of the Course | 6 |