



Integrated Bachelor and Master Programmes in Biomedical Science
IBMP (Biomedical Science) Semester (II)

Paper Code	IS02CBMC54	Periods per week	04
Title of the paper	Anatomy and Physiology II	Exam Duration	3 hrs
Total Credit of the Paper	04	Total Marks	100

Course Objectives:	<ol style="list-style-type: none">1. To familiarize students with anatomy and physiology of respiratory, excretory, endocrine and reproductive system.2. To make the students understand the mechanism of respiration.3. To enable the students to comprehend the role of various hormones in human body.4. To acquaint the students with physiology of pregnancy, lactation and spermatogenesis.
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Course Description		
Unit	Description	Weightage*
1.	Respiratory System: Anatomy of respiratory tract, respiratory and non-respiratory functions of respiratory system, basics of exchange and transport of respiratory gases	25%
2.	Excretory System: (a) Anatomy and functions of renal system, functional unit of kidney-nephron, urine formation (b) Anatomy of skin, functions of skin, structure and functions of sebaceous and sweat glands	30%
3.	Endocrine System: (a) Introduction of endocrinology, types of hormones (in brief) (b) Basic structure, types of hormones secreted and their function in brief for the following endocrine glands: Pituitary gland, thyroid gland, parathyroid, pancreas, adrenal gland	25%
4.	Reproductive System: Anatomy of female and male reproductive system, sex hormones and their functions, menstruation cycle, spermatogenesis, physiology of pregnancy, lactation and menopause	20%

* Units will have the same weightage in the evaluation as suggested in the course outline

Teaching-Learning Methodology	Regular class room teaching will be done with following tools: <ul style="list-style-type: none">• Conventional black board and chalk.• ICT tools such as projectors, smart boards, etc will also be used for better explanation of scientific components.
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	Appropriate reference materials will also provide to the students as and when required from departmental library resources.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Viva-voce, Quizzes, Seminars, Assignments, Attendance	15%
3.	University Examination	70%
4.	Minimum Passing Criteria:40%	

Course Outcomes: Having completed this course, student will be able to	
1.	Understand anatomy and physiology of respiratory, excretory, endocrine and reproductive system.

Suggested References: Include reference material from where a student is expected to study the said content in APA style. Reference websites can also be included.	
Sr. No.	Reference
1	Sembulingam, K., & Sembulingam, P. (2012). <i>Essentials of medical physiology</i> . JP Medical Ltd.
2	Waugh, A., & Ross, G. A. (2010). <i>Wilson anatomy and physiology in health and illness</i> . UK: Elsevier Health Sciences.
3	Hall, J. E., & Hall, M. E. (2011). <i>Guyton and Hall textbook of medical physiology 12th Edition</i> . Elsevier Health Sciences.
4	C.C. Chatterjee : Human Physiology- Volume I and II, 11 th Edition, Medical Allied Agency, Calcutta
On-line resources available that can be used as reference material (As per Guidelines –V)	
Sr. No.	On-line Resources





Hall, J. E., & Hall, M. E. (2020). <i>Guyton and Hall textbook of medical physiology e-Book</i> . Elsevier Health Sciences.





SARDAR PATEL UNIVERSITY
Vallbah Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
Syllabus with effect from the Academic Year 2021-2022

