

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India (Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
BS32		2	-	-	Non-Credits			
	Human Health	Examination Scheme						
	Systems Approach	ISE1		ISE2	Attendance		Total	
		2	20	20	10		50	

Student will be evaluated after completion of 50% syllabus for 20 Marks (ISE1) and at the end of course for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes		es	
After successful completion of the course, student will be able to understand:			
	CO1	Physiology as integrated interdisciplinary Science	
Course	CO2	Physiological significance of balanced diet and exercise in health	
Outcomes	CO3	Significance of cleanliness and hygiene in daily routine	
	CO4	Dynamics and hom	eostasis of human health

Module	Unit	Topics	Ref.	Hrs.
No.	No.			
1	Levels of Organizational Systems		1	2
	1.1	Molecular, Cellular and Organ Systems		
	1.2	Biological Molecules		2
	1.3	Biochemistry, Biophysics, Molecular Biology and Bioengineering		1
2	2 Energy and Molecular Supply Chain Management		1	7
	2.1	Digestive System: Nutrient supply and Balanced Diet		2
	2.2	Respiratory System and effects of Pollution		2
	2.3	Cardiovascular System, Blood Pressure, ECG and Blood Report		2
	2.4	Musculo-skeletal System and exercise Physiology		1
3	Body Fluid Dynamics		1	4
	3.1	Body fluids		2
	3.2	Kidneys as Filtration Units and their Physiological Functions]
	3.3	Urinary System		1
	3.4	Kidney and Urinary Stones, and Dialysis		1
4	Control, Coordination and Regulatory Systems		1	4
	4.1	Sense Organs		1
	4.2	Nervous systems		2
	4.3	Endocrine Systems (Pancreas and Diabetes, Thyroid and its functions)		1



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5	Defence Systems			3
	5.1	Integumentary System		1
	5.2	Immune System		2
6	6 Molecular Biology and Genetical Information			6
	6.1	Hereditary Molecules: DNA RNA		2
	6.2 Horizontal flow of Genetic Information			2
	6.3	Vertical flow of Genetic Information		2
	ISE2			1
			Total	26

References:

- 1. Text book of Anatomy and Physiology for Nurses and allied a health Sciences by Indu Khurana & Arushi.
- 2. Simplified Courses in Molecular Biology by V.K Agarwal- S.Chand Publications.