

Sardar Patel Institute of Technology

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

Course	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
Code		L	T	P	L	T	P	Total
BS32	Human Health Systems Approach	2	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2	Attendance		Total	
		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		odes				
After success	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 cle		Signifi	cance of cleanliness and hygiene in daily routine			
	CO4	Dynan	nics and homeostasis of human health			

Module	Unit	Topics	Ref.	Hrs.
No.	No.			
1	Levels of Organizational Systems			2
	1.1	Molecular, Cellular and Organ Systems		
	1.2	Biological Molecules		2
	1.3	Biochemistry, Biophysics, Molecular Biology and Bioengineering		1
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	Body Fluid Dynamics		4
	3.1	Body fluids		2
	3.2	Kidneys as Filtration Units and their Physiological Functions		1
	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	Defer	Defense Systems			
	5.1	Integumentary System		1	
	5.2	Immune System		2	
6	Mole	2	6		
	6.1	Hereditary Molecules: DNA RNA		2	
	6.2 Horizontal flow of Genetic Information			2	
	6.3	Vertical flow of Genetic Information		2	
	•		Total	26	

References:

- [1] Text book of Anatomy and Physiology for Nurses and allied Health Sciences by Indu Khurana & Arushi
- [2] Simplified Course in Molecular Biology by V. K. Agarwal S. Chand Publication