Bachelor of Vocation – Healthcare Management (Semester -8)

Undergraduate Curriculum Framework 2022(UGCF)

DISCIPLINE SPECIFIC CORE COURSE – DSC- 20: Sustainability in Healthcare Sector

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	**Tutorial**	**Practical/ Practice**		
DSC-20 Sustainability in Healthcare Sector	4	3	1	0	NA	NA

Learning Objectives

This course aims to build a deeper understanding of the importance of a more sustainable healthcare environment and to develop competency in the knowledge and skills related to "greening the healthcare environment" including communication, leadership, environmental sustainability, systems and processes and organizational knowledge.

Learning outcomes

By the end of this course, students should be able to:

1. Understand the concept of sustainability and its relevance to the healthcare sector.
2. Analyze the environmental, social, and economic impacts of healthcare practices.
3. Evaluate sustainable healthcare strategies and their potential benefits.
4. Apply sustainable practices to healthcare facilities, operations, and waste management.
5. Critically assess the role of technology and innovation in promoting sustainability in healthcare.

Syllabus

Unit 1(10 Hours)

Introduction to Sustainable Healthcare- Definition, Importance of Sustainability, Impact of Healthcare on Environment, The triple bottom line approach: balancing environmental, social,

and economic aspects, Energy consumption in healthcare facilities, Building Sustainable Hospitals.

Unit 2-(15 Hours)

Sustainable Healthcare Strategies- Understanding the concept of Green Hospitals, Carbon foot-printing for healthcare, Elements of a Green Hospital, Planning & Implementation of Green Building, LEED certification.

Unit -3 (10 Hours)

Smart & Sustainable Quality Improvement- evaluating quality standards in sustainability, Building Smart & Intelligent Hospitals with aspect to sustainability, Sustainable medical equipment, integrating sustainability into healthcare policies and procedures.

Unit 4 (10 Hours)

Challenges & Innovations in Sustainability- Role of Leadership in building sustainability; Challenges faced by healthcare industry, Systems & Processes required, Change journey from traditional approach to sustainability; AI applications in sustainable healthcare.

Practical component (if any) –

N/A

Essential/recommended readings-

1. Malviya, R.,Sundram,S., &Gupta,B(2024). Sustainability in Healthcare. mHealth,AI and robotics.DeGruyter.
2. Prabhakar,P.k., &Filho, W.L.(2023.Preserving Health: The path to sustainable healthcare.Springer.
3. Chalil,J.M.,Kapur,P.k., &Nalapat,M.D.(2023).India beyond the Pandemic: A sustainable path towards global healthcare.GIFT Publishing.
4. Kumar,S., & Shukla, A.(2022).Sustainable healthcare systems: Global and local perspectives. Academic press

Suggestive readings-

1. Kumar,P., & Malhotra, R.(2021).Sustainability in Healthcare: Challenges and opportunities. Sage Publications.
2. Hans, V.B.(2016).Healthcare and sustainable development in India: Issues and Policies. Research Gate.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.