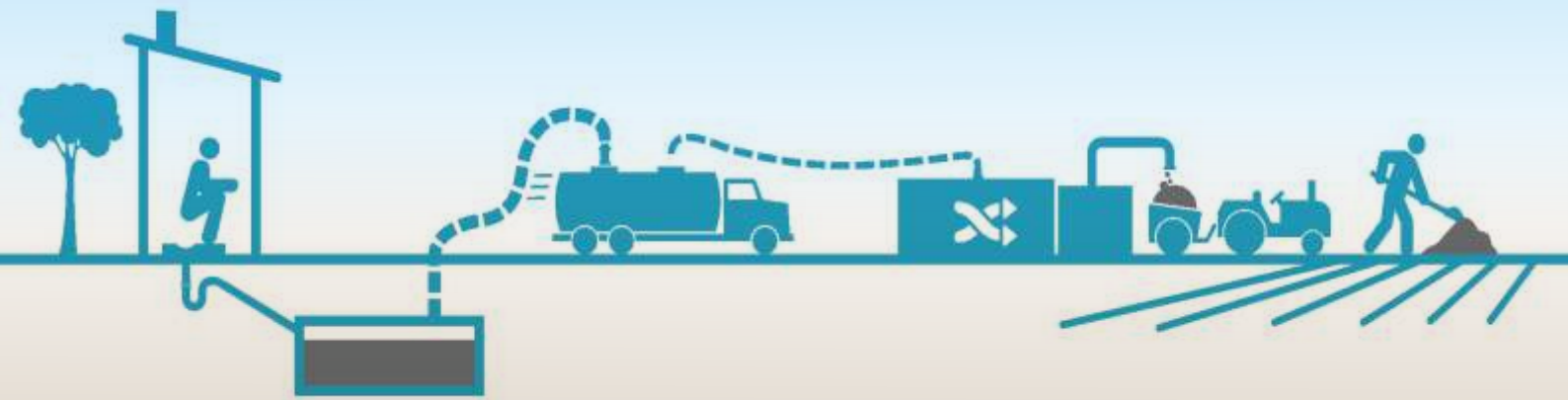




SHARDA
UNIVERSITY
Beyond Boundaries



**SCHOOL OF
EDUCATION**



COURSE

**SANITATION SYSTEMS
AND SUSTAINABLE
WASTE MANAGEMENT
PRACTICES (NV70001)**

VALUE ADDED
COURSE BROCHURE-30 HRS
2024-25

ABOUT THE UNIVERSITY

Sharda University envisions to serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship. It has 14,000+ students from 95+ countries, 29 states, and Union Territories, providing cultural diversity and global exposure to students. It has 26000+ alumni who are today leaders in their realms. Sharda University is NAAC A+ University with Overall NIRF Rank of 86. Teaching Learning Center at Sharda University is to equip the faculty members with the expertise, skills and knowledge they need for capacity building of students. Teaching as a profession requires highly specialized skills and knowledge to impact significantly on student learning and therefore teachers must refine their conceptual and pedagogical skills.

ABOUT SCHOOL

The School of Education was established in 2015 to prepare students who would be leaders in their classrooms, effective practitioners in their particular field and lifelong learners. The school currently runs Integrated Teacher Education programs and Ph.D. programme. The faculty of School is committed to enrich the lives of the students from diverse national and international communities through collaborative, transformative approaches to educational research and research-led teaching. The School of Education believes that high quality student experience is eminent; it has been and always will be our topmost priority. Sharda University's School of Education has its fully equipped labs and other facilities. The School provides excellent teacher education which empowers educators and researchers to improve the landscape of education.

ABOUT VALUE ADDED COURSE (VAC)

SANITATION SYSTEMS AND SUSTAINABLE WASTE MANAGEMENT PRACTICES

This course aims to provide a comprehensive understanding of the interconnected systems involved in managing waste and sanitation sustainably. With global population growth and urbanization increasing waste production, sustainable solutions are essential for minimizing environmental impacts and promoting health. The course covers topics, including waste types and characteristics, sanitation technologies and the principles of resource recovery. Students will explore the hierarchy-reduce, reuse, recycle, recover- and study innovative approaches to landfill alternatives, decentralized sanitation system, and zero waste practices. By the end of the course, students will be equipped with the skills and knowledge to critically analyze, develop and advocate for sustainable sanitation and waste management solutions, benefitting both human health and environment.

COURSE SCHEDULE

Week	Topic	Duration Hrs.
1	Definition, scope and importance of sanitation and waste management. Concept of Swachh Bharat Abhiyan	3h
2	Expected health gains from reduced diarrhoeal disease and malnutrition.	3h
3	The impact of poor sanitation and waste management to health, environment and economy.	3h
4	Schemes under Swachh Bharat Abhiyan; Quality improvement practices in rural areas and urban areas	3h
5	Ecological sanitation and nutrient recycling. Decentralised and on-site sanitation systems.	3h
6	Meaning and Definition of Sustainable Practices; Social Inclusion to promote sustainability	3h
7	Overview of international and national policies for sanitation and waste management	3h
8	Educating communities about sustainable sanitation practices and facilities. Smart and digital solutions in waste management.	3h
9	Seminars/ workshops on the activities of "Swachh Bharat Mission"	3h
10	Special Cleanliness Drives. Education and awareness campaigns for sanitation and hygiene.	3h
Total		30 h

School: SOE Program: B.A.B.Ed Branch: Education		Batch : 2022-26 Current Academic Year: 2024-25 Semester: VI	
1. Course Code	NV70001		
2. Course Title	Sanitation Systems and Sustainable Waste Management Practices		
3. Credits	0		
4. Contact Hours (L-T-P)	30 Hours		
Course Type	Value added course		
5. Course Objective	<ol style="list-style-type: none"> To create awareness about health and hygiene in a holistic manner. To bring improvement in the quality of life in rural and urban areas. To encourage for adaptation of sustainable sanitation practices. To attain Sustainable Development Goals. To develop community managed sanitation systems. To encourage cost effective sanitation efforts by focussing on scientific Solid & Liquid Waste Management systems. 		
6. Course Outcomes	<p>CO1: The student will be able to discuss about health and hygiene in a holistic manner.</p> <p>CO2: The student will be able to describe how to improve the quality of life in rural and urban areas.</p> <p>CO3: The student will be able to understand the concept of sustainable practices.</p> <p>CO4: The student will be able to attain Sustainable Development Goals</p> <p>CO5: The student will be able to plan community managed sanitation systems.</p> <p>CO6: The student will be able to focus on scientific Solid & Liquid waste Management systems.</p>		
7. Course Description	<p>In this course, students will become familiar with the government initiative of Swachh Bharat Abhiyan. Course will provide the information about the Guidelines for Swachh Bharat Mission at rural and urban areas. It will encourage students for adaptation of sustainable sanitation practices. The students will develop an understanding of community managed sanitation systems and scientific Solid & Liquid Waste Management systems. Through case studies and practical applications, this course equips participants to design and implement sustainable sanitation systems and waste management strategies that address real-world challenges.</p>		
8. Outline syllabus			CO Mapping
Unit 1	Introduction		
1	Definition, scope and importance of sanitation and waste management. Concept of Swachh Bharat Abhiyan		CO1, CO2
2	Expected health gains from reduced diarrhoeal disease and malnutrition.		CO2
3	The impact of poor sanitation and waste management to health, environment and economy.		CO1, CO2
Unit 2	Quality Improvement Practices		
1	Schemes under Swachh Bharat Abhiyan		CO1, CO2
2	Quality improvement practices in rural areas and urban areas		CO2
3	Ecological sanitation and nutrient recycling. Decentralised and on-site sanitation systems.		CO4
Unit 3	Sustainable Practices		
1	Meaning and Definition of Sustainable Practices		CO2
2	Social Inclusion to promote sustainability		CO4, CO3
3	Overview of international and national policies for sanitation and waste management.		CO3
Unit 4	Scientific Solid & Liquid Waste Management Systems		
1	Educating communities about sustainable sanitation practices and facilities.		CO4, CO3
2	Smart and digital solutions in waste management.		CO4
3	Modern and Scientific Municipal Solid Waste		CO4
Unit 5	Practicum		
1	Seminars/ workshops on the activities of "Swachh Bharat Mission"		CO2, CO3
2	Special Cleanliness Drives. Education and awareness campaigns for sanitation and hygiene.		CO4, CO5
3	Organizing Painting Competitions, Quizzes and Nukkad Nataks		CO5, CO6
Mode of examination	(Practical/Jury/Viva) Seminar/ Hands-on-training/field visit/workshop/Nukkad Nataks/ Painting Competitions		
References	Swachhbharat abhiyan- an overview Guidelines for Swachh Bharat Mission (GRAMIN) Guidelines for Swachh Bharat Mission (URBAN)		

PROFILE

Dr. Harikrishnan M was a Post-Doctoral Fellow in the Department of Education University of Kerala and holds a Doctorate in Education (2019) from the University of Kerala. Participated and presented a paper in national and international seminars in capacitance as author and resource person for educational psychology. Currently working in School of Education, Sharda University, Greater Noida.