SHARDA UNIVERSITY
Beyond Boundaries

NAAC A+ ACCREDITED

SHARDA SCHOOL OF BUSINESS STUDIES

COURSE

Sustainability in Action: Sector Labs (NV20101)

VALUE ADDED
COURSE BROCHURE-30 HRS
2026-27

Vision and Mission of the School

Vision of the School

To become a world class institution imparting education based on values, fostering culture of research, innovation and entrepreneurial spirit and exhibiting professional excellence for better and sustainable society.

Mission of the School

M1. Building conducive learning ecosystem

M2. Creating socially responsible future business leaders and entrepreneurs

M3. Imparting cutting-edge application based curriculum

M4. Boosting industry-academia connect

ABOUT THE UNIVERSITY

Sharda University is a leading Educational institution based out of Greater Noida, Delhi NCR. A venture of the renowned Sharda Group of Institutions (SGI), The University has established itself as a high-quality education provider with a prime focus on holistic learning and imbibing competitive abilities in students.

COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO(1)	PSO(2)
CO1	2	1	-	1	-	1	1	
CO2		2	1	-	1	-	-	1
CO3	1	-	-	-	-	1	1	-
CO4	-	2	1	-	2	-	-	2
CO5	1	-	-	2	-	2	1	-
Co6	2	-	2	-	1	-	-	1

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

ABOUT SCHOOL

Sharda School of Business Studies believes in preparing students to approach business obstacles and solve them the way established corporations do. Learning happens both inside and outside the classroom; hence, technology plays a big part in the core culture, and so do global exposure, project management, critical reasoning, and business communications skills.

ABOUT COURSE

The **'Sustainability in Action: Sector Labs' (NV20101)** is an experiential lab-based module designed to bridge theory and practice in sustainability. Students engage with real-world sectors such as energy, agriculture, manufacturing, urban systems, and services, identifying sustainability challenges through fieldwork, case analysis, and stakeholder interaction.

The course emphasizes applied learning, enabling students to develop practical, scalable, and innovative sustainability solutions aligned with global frameworks like ESG and SDGs.

COURSE SCHEDULE

Week	Content	Details of Topic Covered	Duration Hrs.
1	**Introduction to Sustainability**	Concept of sustainability in business, triple bottom line, sectoral perspective, Introduction to sector-based sustainability challenges.	3
2	**ESG and SDG**	Overview of ESG and SDG frameworks in sectoral contexts.	3
3	**Sector Lab: Construction & Real Estate Sector, Electricity & Mobility Sector**	Overview of sustainability challenges in these sectors. Green buildings, sustainable materials, and certifications Renewable energy transitions Electric mobility & sustainable transport system.	3
4	**Sector Mapping**	Mapping key players, stakeholders, and value chains in any one selected sector.	3
5	**Case Exploration**	Comparative case analysis of sustainable vs. conventional practices & Identification of Gaps.	3
6	**Field Engagement (Sector-Based)**	Construction & Real Estate: Site visits (green buildings, housing projects), developer interactions Electricity & Mobility: Interaction with EV ecosystem players, energy providers, transport systems	3
7	**Sustainability Assessment Tools Application and Gap Analysis & Impact Evaluation**	ESG analysis of selected firms/projects , SDG mapping for sector-specific operations. Basic tools: carbon footprint, energy efficiency indicators. Identification of sustainability gaps in both sectors and social impact assessment Regulatory and policy influence (RERA, EV policies, renewable policies in India)	3
8	**Solution Design**	Design thinking for sustainability solutions	3
9	**Innovation Lab**	Development of sustainable business models / interventions. Feasibility, scalability, and impact evaluation.	3
10	**Lab Presentation, Policy Linkages & Reflective Learning**	Presentation and discussion	3

PROFILES

Dr. Navjot Singh Bedi:

Dr. Navjot Singh Bedi is a professional with rich experience in Academics, Training, HRM, Administration & ICT services support in challenging and diverse scenarios in field/ static deployment areas of the Indian Army. A Senior technocrat, Instructor, project manager, trainer & Administrator, with experience of spearheading Resource Management Organisations, Teaching, Training and Strategic Policy Formulation at the National Level. Has a rich experience in Effective & Accountable Higher Leadership Roles. Overcame complex challenges & has taken high-stakes decisions using experience-backed judgement, strong work ethics & irreproachable integrity. Respected as a proponent of empowerment and accountability in academic, technical, administration & HR domains. Able to effectively leverage Human Capital by motivating, mentoring & leading talented professionals, by living the culture and leading by example. Directing cross-functional teams of combatants & civilians, using interactive & motivational leadership, to bring in change & improvement. Has been actively participating in various Seminars & Research Conferences from 2010 onwards. As head of Indian delegation to the International Telecom Union (ITU) conference in June 2017, ensured Indian proposal for LMLC (Low Mobility Large Cell), became a mandatory specification within International Mobile Telephony (IMT) 2020. While in service he was commended twice by the Chief of the Army Staff and three thrice by Army Commanders/ Equivalents. Prior to joining Sharda University he was associated with Amity Business School, Amity University, Noida as Professor & HOD of Strategic.

Dr. Pradipta Chandra :

Dr. Pradipta Chandra, a dynamic techno-managerial professional, has received three prestigious degrees from IIT Kharagpur (Institution of National Importance). He received Ph.D., MS (by research in materials science and engineering), and MBA from Vinod Gupta School of Management (VGSOM), IIT Kharagpur. He has a sound knowledge in the polymer production management, process control, product validation, QA with the experience of setting up new manufacturing unit, implementation of standards like IS, ASTM in NABL lab. With 22 years' vast experience in academics with IIT Kharagpur, CIPET, Institution of Engineers (India), state universities, professional association with SMEs like The Supreme Industries Ltd., EXIDE, and R&D exposure in IIT Kharagpur, TBI-IIT Kharagpur, innovation and start-up, successful deployment of Govt. sponsored (DST, DSIR, Ministry of Textiles) projects he has been proving his professional excellency. With his versatile expertize he has a good association with IEEE, USA and India chapters and received awards as a token of his excellency in field demonstration of some unique research findings in technology transfer. He has published papers in SCOPUS and ABDC indexed journal and book chapters. Dr. Chandra has received prestigious "Dr. Rajendra Prasad Excellence Scientist Award-2022".

Dr. Rachna Dhingra:

Dr. Rachna Dhingra is an experienced Doctoral Researcher with a demonstrated history of working in academia, research, capacity building and green buildings. Skilled in Training and Development, Environment Management and Sustainable Development, Entrepreneurship and Lecturing. She has nearly more than 5 years experience of teaching and research in various colleges of University of Delhi (D.U.) and B.R. Ambedkar University, Delhi. She has been selected and participated in exchange programs with Michigan State University (USA), Chulalongkorn University (Thailand), South-East University (China), I.I.T Chennai and Osmania University, Hyderabad.

Dr. Nimmi Agarwal:

Dr. Nimmi Agarwal, an eminent academician with over 15 years of academic experience, has been associated with Sharda University since its inception. She has a number of research works of national and international repute to her credit.

School: SSBS	**Batch : 2025-27**
Programme: MBA	**Current Academic Year: 2026-27**
Branch: MBA	**Semester: III**

1. Course Code	NV20101	
2. Course Title	Sustainability in Actions: Sector Labs	
3. Credits	Audit Course	
4. Contact Hours (L-T-P)	30 Hours	
Course Type	Value added course	
5. Course Objective	1. Understand sustainability challenges across different sectors. 2. Apply sustainability frameworks (ESG, SDGs, circular economy) in real contexts. 3. Analyze sector-specific environmental and social impacts. 4. Develop innovative and feasible sustainability solutions. 5. Build collaboration, field research, and problem-solving skills.	
6. Course Outcomes	After successful completion of this course, students would be able to: CO1: Identify sustainability challenges in different sectors. CO2: Analyze sector-specific sustainability practices using ESG and SDG frameworks. CO3: Conduct field-based research and stakeholder mapping. CO4: Evaluate sustainability gaps and business impacts. CO5: Design innovative and feasible sustainability solutions. CO6: Present actionable sustainability recommendations.	
7. Course Description	This course is an experiential lab-based module designed to bridge theory and practice in sustainability. Students engage with real-world sectors such as energy, agriculture, manufacturing, urban systems, and services, identifying sustainability challenges through fieldwork, case analysis, and stakeholder interaction. The course emphasizes applied learning, enabling students to develop practical, scalable, and innovative sustainability solutions aligned with global frameworks like ESG and SDGs.	
8. Outline syllabus		CO Mapping
Unit 1	**Foundations of Sectoral Sustainability**	
A	Concept of sustainability in business, triple bottom line, sectoral perspective.	CO1
B	Overview of ESG and SDG frameworks in sectoral contexts.	CO1
C	Introduction to sector-based sustainability challenges.	CO1
Unit 2	**Sector Labs – Exploration Phase**	
A	**A. Construction & Real Estate Sector** Overview of sustainability challenges in construction and real estate (energy consumption, resource use, waste, urban sprawl) Green buildings, sustainable materials, and certifications (LEED, GRIHA) Role of real estate in climate change and urban sustainability **B. Electricity & Mobility Sector** Overview of energy and mobility sustainability challenges (fossil fuel dependency, emissions, energy access, urban transport issues) Renewable energy transitions (solar, wind) Electric mobility and sustainable transport systems.	CO1, CO2
B	Sector Mapping - Mapping key players, stakeholders, and value chains in any one selected sector.	CO1, CO2
C	Case Exploration- Comparative case analysis of sustainable vs. conventional practices & Identification of Gaps.	CO2, CO4
Unit 3	**Field Engagement & Analysis (Focused Sectors)**	
A	**Field Engagement (Sector-Based)** Construction & Real Estate: Site visits (green buildings, housing projects), developer interactions Electricity & Mobility: Interaction with EV ecosystem players, energy providers, transport systems	CO3
B	**Sustainability Assessment Tools Application** ESG analysis of selected firms/projects SDG mapping for sector-specific operations Basic tools: carbon footprint, energy efficiency indicators	CO3,CO4
C	**Gap Analysis & Impact Evaluation** Identification of sustainability gaps in both sectors Environmental and social impact assessment Regulatory and policy influence (RERA, EV policies, renewable policies in India)	CO4
Unit 4	**Solution Design & Innovation Lab**	
A	Design thinking for sustainability solutions.	CO5
B	Development of sustainable business models / interventions.	CO5, CO6
C	Feasibility, scalability, and impact evaluation.	CO5, CO6
Unit 5	**Lab Presentation, Policy Linkages & Reflective Learning**	
A	Final project presentation and discussion sector lab findings for Construction & Real Estate or Electricity & Mobility	CO6
B	Alignment of findings with Indian regulatory frameworks and policies: Real Estate: RERA, GRIHA, ECBC Electricity & Mobility: FAME Scheme, EV Policy, Renewable Energy Policies	CO6
C	Reflection journal and learning outcomes, Linking learning outcomes to: Skill development (analytical, teamwork, problem-solving) Career readiness in sustainability and ESG roles	CO6
Mode of examination	Assignments/ Quizzes	
Text book/s*	• Elkington, J. (1997). Cannibals with forks: The triple bottom line of 21st century business. Capstone. • Schaltegger, S., & Burritt, R. (2017). Contemporary environmental accounting. Routledge. • Osterwalder, A., & Pigneur, Y. (2010). Business model generation. Wiley. • Landrum, N. E., & Edwards, S. (2009). Sustainable business: An executive's primer. Business Expert Press.	
Other References	• United Nations. (2015). Transforming our world: The 2030 agenda for sustainable development. • Geissdoerfer, M., et al. (2017). The circular economy – A sustainability paradigm. Journal of Cleaner Production. • ESG and Sustainability Reports (India & Global) • Research articles and case studies on sector-specific sustainability practices sustainable business practices.	