Course title: Sustainable Consumption and Production: Policies & Practices			
Course code: PPS 117	**No. of credits:** 2	**L-T-P:** 26-04-00	**Learning hours:** 30
Pre-requisite course code and title (if any): None			
Department: Department of Policy & Management Studies			
Course coordinator(s): Prof. Shaleen Singhal		**Course instructor(s):** Prof. Shaleen Singhal	
Contact details: shaleen.singhal@terisas.ac.in			
Course type: Core		**Course offered in:** 1st Semester	

Course description

Countries in the South Asian region are witnessing rapid transformation. Future prosperity and transition to sustainability in this region will be highly influenced by changes in the development of the countries and businesses as well as in consumption patterns and lifestyles. Noticeable awareness generation and capacity-building initiatives are aiming to promote a shift towards sustainable consumption and production (SCP) patterns and resource efficiency for green growth and poverty reduction in the South Asian region. The enabling policy environment needs to be strengthened through the enhanced capacity of future decision-makers in order to ensure a balance between the demand and supply side towards SCP. Advanced knowledge, skills, and commitment of policymakers and graduates today are critical constituents necessary to structure and successfully implement sustainable development policies in the future. India in particular, with its young population is likely to rise from the twelfth-largest consumer market today, to become the world's fifth-largest consumer market by 2025. While the significance of SCP and resource efficiency is well accepted in India, imparting knowledge to policy and decision-makers shall facilitate an enabling environment for the comprehensive integration of SCP into policymaking. This is being aimed through the first-of-its-kind postgraduate course in India for young policy and decision-makers.

Learning objectives:

- To impart knowledge on SCP concepts, significance, and advancements within India and the wider South Asia region in order to create a pool of better-informed future policymakers.
- To equip young policymakers with knowledge on the demand side and supply side challenges and opportunities relating to SCP.
- To equip young policymakers for policy analysis of select sectors targeting mainstream SCP into policy.

Course content

Module	Topic	L	T	P
1.	**Introduction to Sustainable Consumption and Production (SCP)** • SCP and its significance for Sustainable Development • Linking SCP with Sustainable Development Goals (SDGs) • Review of SCP Targets under SDG and crosscutting targets and indicators • Internalizing SCP elements in development goals of poverty reduction, resource efficiency, sustainable livelihoods, climate change mitigation/adaptation • Reviewing SCP and SDG's transformative indicators. Gap analysis relating to achieving SDGs (policy, practice, financing, technology gaps) • International approaches: Global SCP Policies and Practices (examples from countries that have adopted SCP goals). • Innovative ideas for SCP that can integrate with existing policy features.	6	0	0
2.	**SCP in Regional, National, and Local Policy Frameworks** • Challenges and opportunities for SCP in emerging economies • Regional focus on European Union, ASEAN, and South-Asian sub-regional integration of SCP into public governance frameworks • National focus on India • State-level focus and progress across Indian states on SCP topics.	2	0	0

3.	**Demand-side: Sustainable Behaviours and Lifestyles** ***Consumer choices and behaviours:*** • How do consumers determine the eco-friendliness of products? Behavioural vs. regulatory obstacles to sustainable consumption choices, consumption 'hot spots' and their effectiveness, advertisement control, etc. ***Mechanisms for promoting behavioural changes:*** • Promotional activities to attract consumers • Sustainable Public Procurement • 'Green procurement' in government and private sector targeted through awareness and education campaigns on sustainability for consumers. • Production optimization based on prevailing consumption patterns.	4	0	0
4.	**Mainstreaming SCP I– SCP for Resource Efficiency and Cleaner Production** • Designing for sustainability: Process, product, and systems innovation – improved production processes, eco-friendly products, innovative low-impact technologies, supply chain management • Zero waste / Circular economy across interlinked sectors • Adoption of cleaner production processes (efficiency in production, resources management including energy, water, and materials) • Cleaner Production Process in SME Sectors • Life Cycle Thinking and Systems Approach • Customize policy discussion for India's economic/environmental scenario with specific reference to consumption, production, and links with economic growth	6	0	0
5.	**Mainstreaming SCP II - Development and Implementation of Policies** • Existing SCP elements/practices in development goals • Regional, national, and sectoral specificities • Identifying the target policies and instruments for implementing SCP • Current policy provisions: o Enhancement of effectiveness o Cross-Ministry interface o Need for alternatives • Planning and implementation: SCP integration into existing policy structures. Exploring stakeholder engagement in policymaking • Monitoring and Evaluation: Assessment of sustainable production (upstream) and sustainable consumption (downstream) activities and policies. • Ensuring implementation of SCP practices in production and consumption activities, adherence to directives as well as effectiveness and efficacy of said practices.	6	0	0
6.	**Mainstreaming SCP II – Economic and Fiscal Instruments** • Financial models for SCP: o Government-based taxes and subsidies and user fees o Green public procurement o Using polluter pays principle – such as air, water pollution tax, carbon tax, etc. o Green investment loan o Conditional cash transfer programmes • SCP in MSMEs: o Internalizing SCP in business strategies and supply chains o Investment allowance for energy-efficient/green technologies o Environmental Fiscal Reforms (EFR) o Reduction of environmentally harmful subsidies (like reducing fuel subsidies	2	0	0
7.	**Presentations on policy analysis-related appraisals**	0	4	0
	Total	**26**	**4**	**0**

Evaluation criteria:

Course grades will be based on the following criteria:

- **Minor Test-1:** Short-Answer Type Questions/Quizzes/MCQs (20%)
- **Minor Test-2:** Seminar Presentation (30%)
- **Major Test:** Written Test/Term Paper submission and presentation (50%)

Learning outcomes

Upon completion of this course, candidates would be able to:

1. understand the significance of sustainable consumption and production for sustainable development and its implications in achieving SDGs (All evaluations)
2. provide effective applications of SCP elements in business to enable resource efficiency in production and economies of scale (All evaluations)
3. examine the potential synergy between SCP plans and policies (All evaluations)
4. comprehend the significance of various policy instruments, strategy options, and institutional arrangements to mainstream SCP for effective sustainable development governance (All evaluations)

Pedagogical approach

Classroom lectures; Brainstorming tutorials and presentation sessions; exposure to national, regional, and global case studies on the themes.

Required Readings

- IACG (2014). Sustainable Consumption and Production in the Proposed Sustainable Development Goals – A paper from the Inter-Agency Coordination Group (IACG) of the 10 Year Framework of Programmes on SCP (10YFP). Retrieved from: https://www.oneplanetnetwork.org/sites/default/files/iacg.pdf
- UNEP (2014). Decoupling 2: technologies, opportunities, and policy options. A Report of the Working Group on Decoupling to the International Resource Panel. von Weizsäcker, E.U., de Larderel, J., Hargroves, K., Hudson, C., Smith, M., & Rodrigues, M. Retrieved from: https://www.resourcepanel.org/sites/default/files/documents/document/media/-decoupling_2_technologies_opportunities_and_policy_options-2014irp_decoupling_2_report-1.pdf
- Sanyal, S., & Eisinger, F. (2016). Enabling SME Access to Finance for Sustainable Consumption and Production in Asia – An Overview of Finance Trends and Barriers in India. Retrieved from: https://www.switch-asia.eu/site/assets/files/1225/green_finance_study_-_2016_-_india.pdf
- TERI (2013). Engagement with Sustainability Concerns in Public Procurement in India: Why and How. The Energy and Resources Institute Policy Brief. Retrieved from: https://www.teriin.org/sites/default/files/2017-12/spp_2013.pdf

Suggested Readings

- Akenji, L., & Bengtsson, M. (2014). Making Sustainable Consumption and Production the Core of the Sustainable Development Goals. *Sustainability*, *6*, 513-529. Retrieved from: http://www.mdpi.com/2071-1050/6/2/513
- Chiu, A. S. F., Ward, J. V., & Massard, G. (2009). Introduction to the special issue on Advances in Life-Cycle Approaches to Business and Resource Management in the Asia-Pacific Region. *Journal of Cleaner Production*, 17(*14*), 1237-1240. Retrieved from: http://www.sciencedirect.com/science/article/pii/S0959652609001383
- Rebitzer, G., Ekvall, T., Frischknecht, R., Hunkeler, D., Norris, G., Rydberg, T., Schmidt, W. –P., Suh, S., Weidema, B. P., & Pennington D. W. (2004). Life cycle assessment: Part 1: Framework, goal, and scope definition, inventory analysis, and applications. *Environment International*, 30(*5*), 701-720. Retrieved from: http://www.sciencedirect.com/science/article/pii/S0160412003002459
- Zhao, W., & Schroeder, P. (2010). Sustainable consumption and production: Trends, challenges and
- options for the Asia-Pacific region, Natural Resources Forum, 34(1), 4-15. Retrieved from: http://onlinelibrary.wiley.com/doi/10.1111/j.1477-8947.2010.01275.x/pdf
- ADBI (2013). Low-Carbon Green Growth in Asia Policies and Practices: A Joint Study of the Asian Development Bank and the Asian Development Bank Institute. Retrieved from: https://www.adb.org/sites/default/files/publication/159319/adbi-low-carbon-green-growth-asia.pdf
- Tseng, S., & Hung, S. (2013). A framework identifying the gaps between customers' expectations and their perceptions in green products. *Journal of Cleaner Production*, 59, 174-184. Retrieved from: http://www.sciencedirect.com/science/article/pii/S0959652613004411.

- Shakya, R. K., & Lama, P. (2019). *Green Public Procurement in Bhutan: Success Story from Asia*. Pennsylvania, USA: IGI Global.
- Rathi, A.K.A. (2003). Promotion of cleaner production for industrial pollution abatement in Gujarat (India). *Journal of Cleaner Production*, 11(*5*), 583-590. Retrieved from: https://www.sciencedirect.com/science/article/pii/S095965260200094X
- Wuppertal Institute for Climate, Environment and Energy (2013). Lighting: Energy Efficient Lighting for Sustainable Development. Retrieved from: https://seors.unfccc.int/applications/seors/attachments/get_attachment?code=NG125PFE4WHMWSYAK8TCAKIHMWX0F4QD
- FICCI/UNEP (2015). Designing a Sustainable Financial System for India: Interim Report. Retrieved from: http://ficci.in/spdocument/20546/UNEP-Interim-Report.pdf
- J.M., and Nathadwarawala, K.M., (2011). Sustainable Business Initiatives in the Context of Emerging Economies, In B. Unhelkar (Ed.), Handbook of Research on Green ICT: Technology, Business and Social Perspectives: 265-281. Retrieved from: http://www.igi-global.com/chapter/sustainable-business-initiatives- context-emerging/48433

Websites

- Nationally Determined Contributions to UNFCCC. https://unfccc.int/process-and-meetings/the-paris-agreement/nationally-determined-contributions-ndcs
- SCP Clearinghouse
  The Global SCP Clearinghouse is a unique one-stop hub dedicated to Sustainable Consumption and Production (SCP) and convened by the United Nations Environment Programme (UNEP) acting as the Secretariat of the 10 Year Framework of Programmes on SCP (10YFP on SCP). http://www.scpclearinghouse.org/
- SCP Policies and the 10-Year Framework Programme, UNEP. http://www.unep.org/resourceefficiency/Policy/SCPPolicies/tabid/55539/Default.aspx
- SWITCH-Asia projects funded by the European Union. https://www.switch-asia.eu/
- UNDP projects on environmental aspects related to SCP in India. http://www.in.undp.org/content/dam/india/docs/UNDP%20Fact%20Sheet%20-%20MEFCC.pdf
- UNEP's Resource Efficiency Programme. http://www.unep.org/resourceefficiency/Home/Society/tabid/55529/Default.aspx
- UNIDO projects on cleaner production topics. http://www.unido.org/en/where-we-work/asiaandthepacific/selected-projects.html

Other Readings

- UNEP, 2012. Global Outlook on SCP Policies: Taking action together. http://www.unep.org/pdf/Global_Outlook_on_SCP_Policies_full_final.pdf
- SWITCH-Asia Projects, Case studies. https://www.switch-asia.eu/resource/?type=case-study
- SWITCH-Asia Project Impact Sheet: Green Retail India – Greening the food and beverage supply chain in India. https://www.switch-asia.eu/site/assets/files/2540/switch_asia_impact_sheet_-_2017_-_green_retail_india.pdf
- UNEP, 2010. ABC of SCP – Clarifying Concepts on Sustainable Consumption and Production: Towards a 10-Year Framework of Programmes on Sustainable Consumption and Production.
- UNEP, 2012. Sustainable Consumption and Production for Poverty Eradication. https://stg-wedocs.unep.org/bitstream/handle/20.500.11822/32513/SCPPE.pdf?sequence=1&isAllowed=y
- UNEP, 2015. Sustainable Consumption and Production Indicators for the Future SDGs. https://sustainabledevelopment.un.org/content/documents/2301SCP%20indicators.pdf
- UNDP-UNEP, 2014. Building Inclusive Green Economies – Stories of Change from the Poverty-Environment Initiative in Asia-Pacific.
- UNEP, 2013. Redefining Ecolabels to Improve Sustainability and Trade in Developing Countries: Lessons and Recommendations from the UNEP Project.
- SWITCH-Asia Case Study: Up-scaling Biogas Technology for Sustainable Development and Mitigating Climate Change in Sri Lanka. http://www.switch-asia.eu/publications/bio- gas-case-studies/

- UNEP, 2009. Mainstreaming Sustainable Consumption and Production and Resource Efficiency into Development Planning. http://www.unep.fr/shared/publications/pdf/DTIx1235xPA-MainstreamingSCPintoDevPlanning.pdf
- UNEP, 2014. The Business Case for Eco-Innovation.
- UNEP, 2016. Indicators for a Resource Efficient and Green Asia and the Pacific - Measuring progress of sustainable consumption and production, green economy and resource efficiency policies in the Asia-Pacific region. Schandl, H., West, J., Baynes, T., Hosking, K., Reinhardt, W., Geschke, A., & Lenzen, M. United Nations Environment Programme, Bangkok. https://www.un-ilibrary.org/content/books/978921060224
- SWITCH-Asia SCP E-book Module 2 (3rd Edition) - Designing and Implementing National SCP Policies: The Policy Cycle and SCP in National Governance Structures
- UNEP, 2012. Sustainable Consumption and Production: A Handbook for Policy Makers with Cases from Asia and the Pacific (First Edition)
- UNEP, 2015. Sustainable Consumption and Production: A Handbook for Policymakers, Second Edition – Asia-Pacific Region.
- Castro-Hallgren, S., 2016. UNEP Background Paper to Inform National Policy Activities in India on Sustainable Consumption and Production in 2016.
- UNEP, 2013. Capacity Building and Policy Needs Assessment for Sustainable Consumption and Production. SWITCH-ASIA Regional Policy Support Component. https://www.switch-asia.eu/resource/capacity-building-and-policy-needs-assessment-for-sustainable-consumption-and-production/
- SWITCH-Asia, 2014. Access to Finance for SMEs – Engaging in Sustainable Consumption and Production Practices. https://www.switch-asia.eu/site/assets/files/1236/switch-asiamag_winter14-15_screen.pdf
- UNEP, 2010. Pre-SME – Promoting Resource Efficiency in Small & Medium Sized Enterprises.
- UNEP, 2013. Sustainable Public Procurement: A Global Review.

Additional information (if any)

This first-of-its-kind postgraduate course on Sustainable Consumption and Production has been developed for young policy and decision-makers as part of the SWITCH-Asia Regional Policy Support Component supported by UNEP and the European Union.

Student responsibilities

- At least 75% attendance will be necessary to be able to appear for the final exam.
- Active classroom participation; Critical reflections and timely submission according to the evaluation criterion.

Course prepared by: Prof. Shaleen Singhal

Course reviewers

1. Dr. Sunil Pandey, Director, Circular Economy and Waste Management, The Energy and Resources Institute (TERI), New Delhi, India
2. Dr. Malini Balkrishnan, Director, Center for Water Security, The Energy and Resources Institute (TERI), New Delhi, India