



# Indraprastha College for Women

## University of Delhi

Course Name:	SEC
Paper Title:	Prospecting E-Waste for Sustainability
Unique Paper Code:	2186000002
Semester:	III
Faculty(s):	Mr. Shanta Kumar
Year:	2024

Work Plan			
Period	Unit No.	Learning Objective	Topics to be Covered
1 <sup>st</sup> Aug -3 <sup>rd</sup> Aug			Identification of e-waste and its types
5 <sup>th</sup> Aug-10 <sup>th</sup> Aug			Composition of e-waste and segregation- from the material provided
12 <sup>th</sup> Aug-17 <sup>th</sup> Aug			Dismantling of e-waste and handling process
19 <sup>th</sup> Aug-24 <sup>th</sup> Aug			Visit a nearby e-waste handling facility
26 <sup>th</sup> Aug-31 <sup>st</sup> Aug			Environmental protection laws and producer's responsibility for e-waste management
<b>Activity-1</b>			<i>Demonstration and critical analyses</i>
2 <sup>nd</sup> Sep-7 <sup>th</sup> Sep			Build an understanding of how regulatory mechanisms can be utilized in the management of e-waste in educational institutions.
9 <sup>th</sup> Sep-14 <sup>th</sup> Sep			Discussion on plausible ways and implementation of e-waste reduction at the source
16 <sup>th</sup> Sep-21 <sup>st</sup> Sep			Evaluation of the status of e-waste handling at your institution. Suggest potential solutions as per the existing norms of E-Waste (Management) Rules, 2016 and beyond
<b>Activity-2</b>			<i>Fieldwork Exercises and Field Visit</i>
23 <sup>rd</sup> Sep-28 <sup>th</sup> Sep			Estimate how recycling of e-waste in metro cities will go in sync with the circular economy

30 <sup>th</sup> Sep-5 <sup>th</sup> Oct			Develop an understanding and itinerary of the process for procuring e-waste import permissions
7 <sup>th</sup> Oct-12 <sup>th</sup> Oct			Inventory of the e-waste disposal mechanisms.
<b>Activity-3</b>			<i>E-waste Recycling Unites</i>
14 <sup>th</sup> Oct-21 <sup>st</sup> Oct			Study the evolution of e-waste management rules and its implementation Hazardous Waste Rules, 2008,
22 <sup>nd</sup> Oct			<b><i>Talk on GLOF Glacier Lake Outburst flow in the Himalayan region</i></b>
21 <sup>st</sup> Oct-26 <sup>th</sup> Oct			E-waste (Management and Handling) Rules, 2011; and E-Waste (Management) Rules, 2016
28 <sup>th</sup> Oct-2 <sup>nd</sup> Nov	<b><u>MID-SEMESTER BREAK</u></b>		
4 <sup>th</sup> Nov-9 <sup>th</sup> Nov			Study the international laws on e-waste management- the international legislations: The Basel Convention; The Bamako Convention;
11 <sup>th</sup> Nov-16 <sup>th</sup> Nov			The Rotterdam Convention; Waste Electrical and Electronic Equipment (WEEE) Directive in the European Union; Restrictions of Hazardous Substances (RoHS) Directive
18 <sup>th</sup> Nov-23 <sup>rd</sup> Nov	<b>Activity-4</b>		<i>Survey Analyses</i>
25 <sup>th</sup> Nov-27 <sup>th</sup> Nov			<i>Doubt Clearing</i>
28 <sup>th</sup> Nov	<b><u>DISPERSAL OF CLASSES</u></b>		

S. No.	Name of Authors/Books/Publishers
1.	Hester, R.E. and Harrison, R.M., 2009. Electronic Waste Management: Design. Analysis and Application. Royal Society of Chemistry Publishing. Cambridge, UK
2.	Fowler, B.A., 2017. Electronic Waste: Toxicology and Public Health Issues. Academic Press.
3.	Gaidajis, G., Angelakoglou, K. and Aktsoglou, D., 2010. E-waste: environmental problems and current management. Journal of Engineering Science and Technology Review, 3(1), pp.193-199.
4.	Janyasuthiwong, S., 2020. Metal Removal and Recovery from Mining Wastewater and E-waste Leachate. CRC Press.