

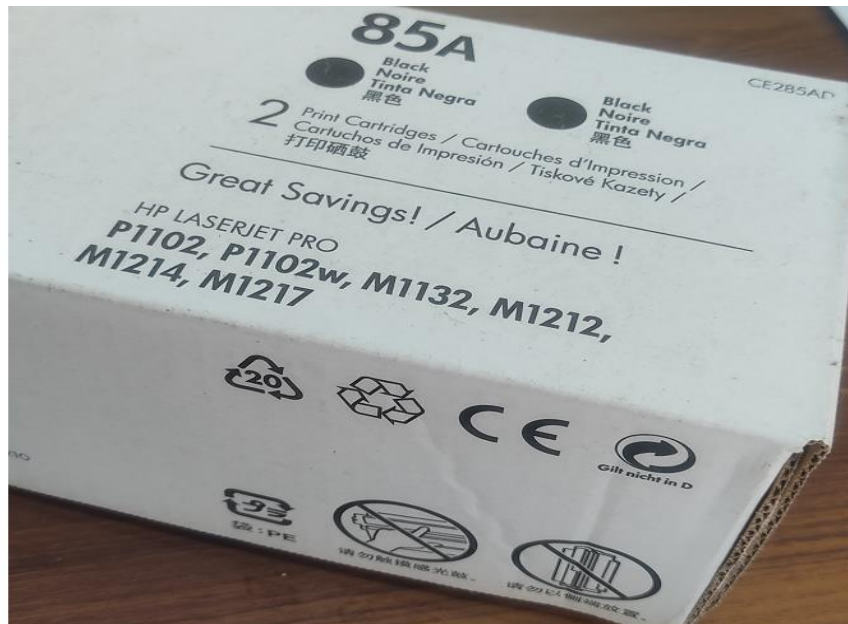


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University : Allama Iqbal Open University
Country : Pakistan
Web Address : www.aiou.edu.pk

[3] Waste (WS)

[3.1] Recycling Program for University Waste



Ink-cartridges are refilled and reused



Old furniture is recycled by making new furniture items from them or using them for bio-fuel purposes



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Organic waste is collected in separate bins and is processed at agricultural department for production of high-quality compost and biodiesel

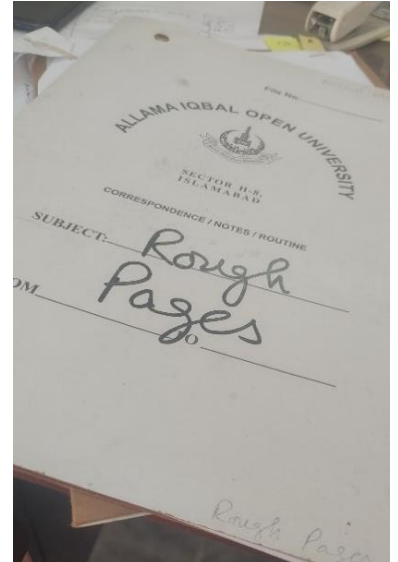
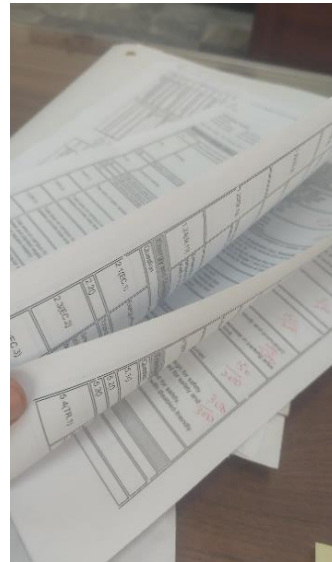


The compost is prepared with inoculation, fermentation, and decomposition process. Plant clippings, grasses, and animal and poultry waste are mixed with a specific ratio to maintain C: N ratio. The long material is chopped and sprayed with Effective Microorganisms to speed up the decomposition process. The organic material is matured and decomposed within 4 to 6 weeks depending on the quality of the decomposable material.



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Separate dustbins for paper used for recycling purpose. Both sides of papers are always used.



Separate Dustbins for Recyclable Items



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Recycling SOPs are followed for University Waste

Description:

- University produces two types of wastes
 - Re-cyclable waste**
The recyclable waste is collected, chopped, and treated with Effective Microorganisms (EM) for decomposition and conversion to Bio-compost which is being used in raising nurseries, Fruits, Vegetables, and crop production.
 - Non-re-cyclable waste**
The non-recyclable waste is collected and transported to a recyclable plant installed by Capital Development Authority Islamabad. The waste material is segregated and packed in separate bundles and sent to the manufacturing industry for product development.
- Allama Iqbal Open University has Print Publishing Unit which printed thousands of books each year till Spring 2020. The extra print material is sent to different recycling companies each year which recycle this material and send it back to AIOU for further use. The recycled paper obtained from these companies is used to print student course books.
- Additionally, another program allows all types of recyclable (plastic, paper, glass, aluminum) material to be placed in the separate containers, making it easier for the recycling purpose.
- Also, the students are guided on how to use separate bins for different kinds of wastes like metal, paper or glass.
- AIOU also promotes the recycling of Electronic Waste and ink-cartridges from printers. E-waste items are not disposed of in the normal trash due to their high concentrations of toxic chemicals and heavy metals.
- Ink-cartridges for printers are refilled and reused.

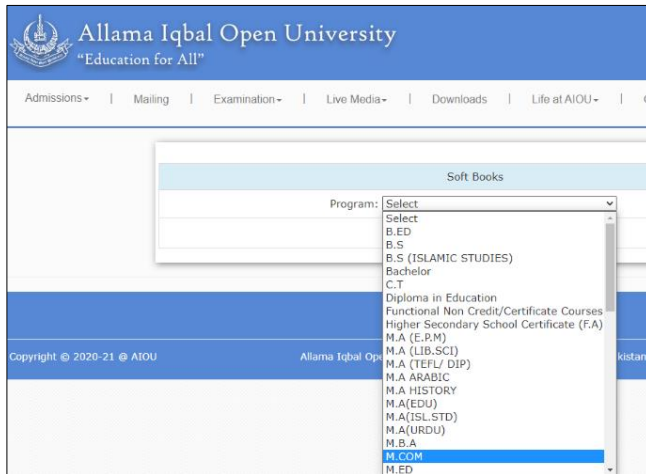


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[3] Waste (WS)

[3.2] Program to Reduce the Use of Paper and Plastic on Campus



Course Code	Course Title	Download Book
1790	SUSTAINABLE RURAL DEVELOPMENT	
1791	REGENERATING AGRICULTURE	
1792	RURAL POVERTY ALLEVIATION	
1796	NATURAL RESOURCES MANAGEMENT	
1797	MANAGING PROJECTS IN RURAL DEVELOPMENT	
5563	MANAGING HUMAN RESOURCES	
5564	QUANTITATIVE TECHNIQUES	
5565	MARKETING MANAGEMENT	
5566	ACCOUNTING & FINANCE	

Books available only in soft form for all the programs

EV32055	Lab Equipment 36/2020-21 TS435207E Allama Iqbal Open University	
EV32056	Cloth bags 38/2020-21 TS435207E Allama Iqbal Open University	
EV32057	Lab Equipment 33/2020-21 TS435205E Allama Iqbal Open University	
EV32052	Repair/Maintenance of lifts 30/2020-21 TS435205E Allama Iqbal Open University	
EV31801	Supply of Stationary.... 26/2020-21 TS434026E Allama Iqbal Open University	
EV31799	Printing of Books for Autumn.... 27/2020-21 TS434070E Allama Iqbal Open University	

Allama Iqbal Open University's Tender for Cloth Bags to reduce the use of plastic bags for all its activities



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SAY NO
TO PLASTIC BAGS

Plastic Free AIOU

پلاسٹک کے لفافے ایک خاموش خطرہ

پلاسٹک کے لفافوں کے نقصانات

پھیپھڑوں اور سانس کے امراض کا ذریعہ

ماحولیاتی آلودگی
کینسر کا سبب

کپڑے کے بیگ کے فوائد

ماحولیاتی آلودگی میں کمی

دوبارہ استعمال شدہ
باؤڈیگریڈیبل



AIOU's "Say no to Plastic Bags" Campaign

Description:

1. Allama Iqbal Open University has placed an automation program. The main aim of this program is to introduce a paperless system in the University. Moreover, the wastepaper is being sold to Paper mills for recycling purposes. The mills manufacture recycled paper from this waste material. A similar procedure is being adopted for plastic and other metals.
2. Use of paper is extensively reduced by providing soft books to the students instead of hard copies (every semester there are more than 3 million books required by students at different levels).
3. AIOU follows government initiatives which encourages paperless system to reduce paper in daily workplace. It can reduce a lot of paper use which will result in reduced CO2 emissions and save the world.
4. At AIOU we use both sides of paper, we always recheck our data before print and use online system instead of hard copy.
5. AIOU follows government initiatives which instructs not to use plastic bags and encourages the use of sustainable and recyclable cloth bags or paper bags.



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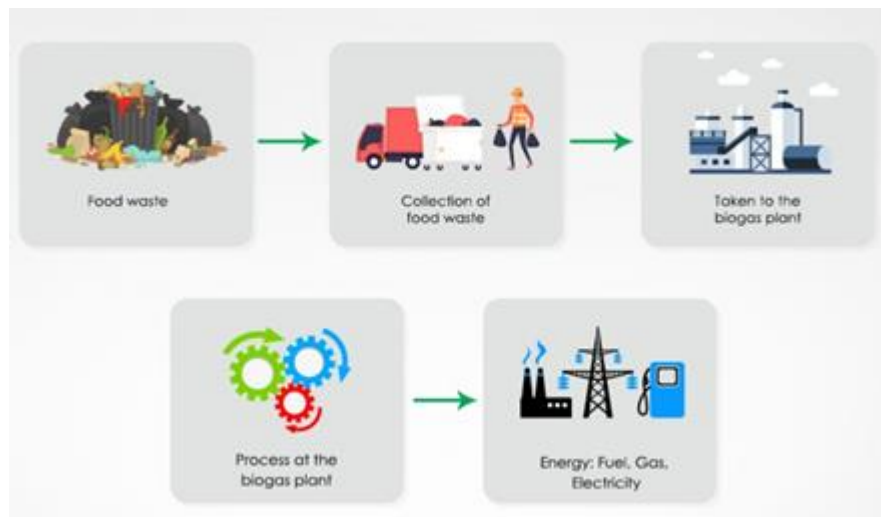
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[3] Waste (WS)

[3.3] Organic Waste Treatment



At AIOU organic waste is collected in separate bins and more than 90% of it is processed at agricultural department for production of high-quality compost and bio-fuel.



AIOU is following a Recycling Model for Organic Waste Treatment. Organic waste is collected and is taken to Agriculture Department which is then used for energy production or bio-compost production.

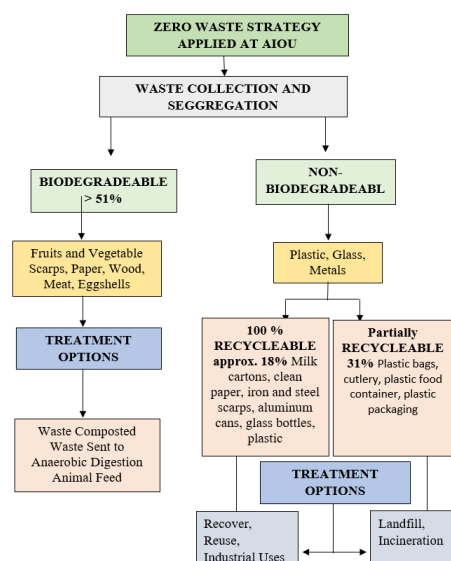


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The compost is prepared with inoculation, fermentation, and decomposition process. Plant clippings, grasses, and animal and poultry waste are mixed with a specific ratio to maintain C: N ratio. The long material is chopped and sprayed with Effective Microorganisms to speed up the decomposition process. The organic material is matured and decomposed within 4 to 6 weeks depending on the quality of the decomposable material.

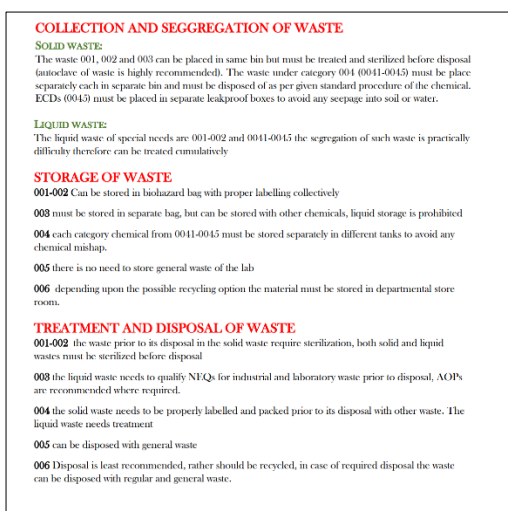


Zero Waste strategy is implemented at AIU



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Different departments have SOPs for collection, segregation and disposal/recycling of Organic Waste.

Description:

1. Organic waste is treated with different microbes and valorized into bioproducts like Bio-compost, and organic fertilizers. Plant clippings, kitchen waste, and mowed grass are chopped and treated with Bacteria isolated from Soil, milk, and fungi from different sources as a decomposer.
2. The recyclable waste/organic waste is collected, chopped, and treated with Effective Microorganisms (EM) for decomposition and conversion to Bio-compost which is being used in raising nurseries, Fruits, Vegetables, and crop production.
3. In AIU, Pakistan, the major contributors to organic waste are canteens and cafés. At AIU organic waste is collected in separate bins and most of it is processed at agricultural department for production of high-quality compost. A project for commercialization of this compost is in pipeline and this will be available to local community soon.
4. Different departments have SOPs for collection, segregation and disposal/recycling of Organic Waste.
5. Food waste from hostels, and canteens is packaged and provided to needy both at campus and outside the campus free of cost.
6. Zero Waste strategy is implemented at AIU

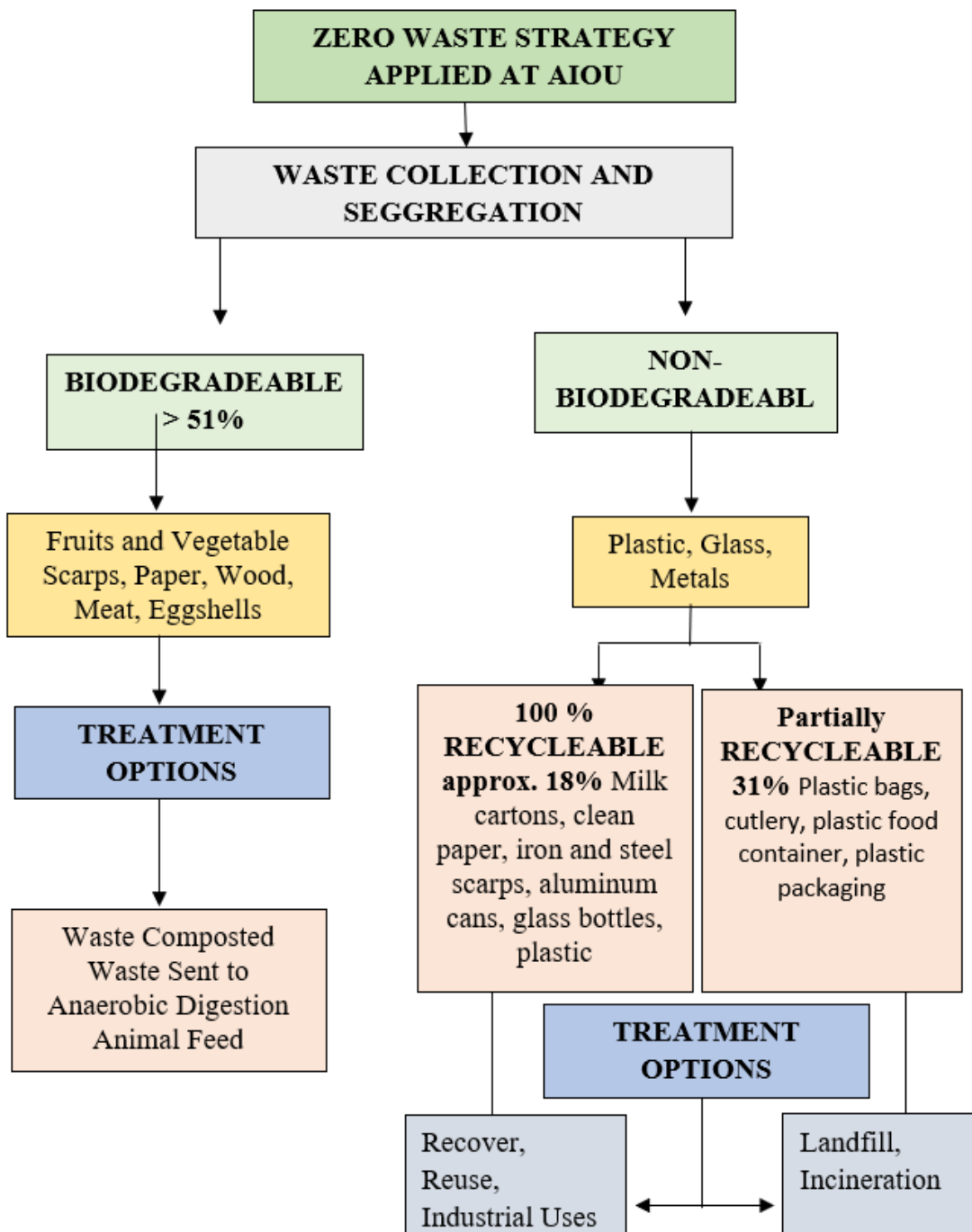


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[3] Waste (WS)

[3.4] Inorganic Waste Treatment

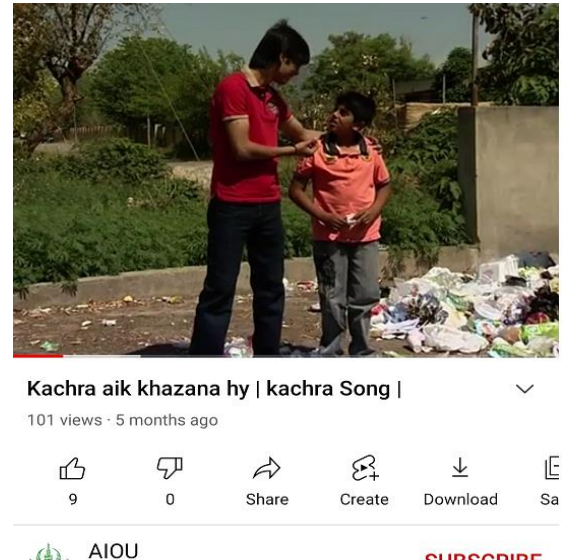


Zero Waste strategy is implemented at AIU



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“Waste to Money” awareness program is implemented at AIOU. Video programs and songs for motivating students are available. Video link: <https://www.youtube.com/watch?v=iRUUpFwwL2tY>

Description:

1. Zero waste Strategy is implemented at AIOU for inorganic waste treatment.
2. Different departments have SOPs for collection, segregation and disposal/recycling of inorganic waste.
3. 3R initiative is implemented at AIOU. A student club collects and distributes usable inorganic waste and distributes among needy.
4. Some inorganic waste is collected and transported to a recyclable plant installed. The waste material is segregated and packed in separate bundles and sent to the manufacturing industry for product development.
5. “Waste to Money” awareness program is implemented at AIOU. Video programs and songs for motivating students are available.
http://oric.aiou.edu.pk/?page_id=2237

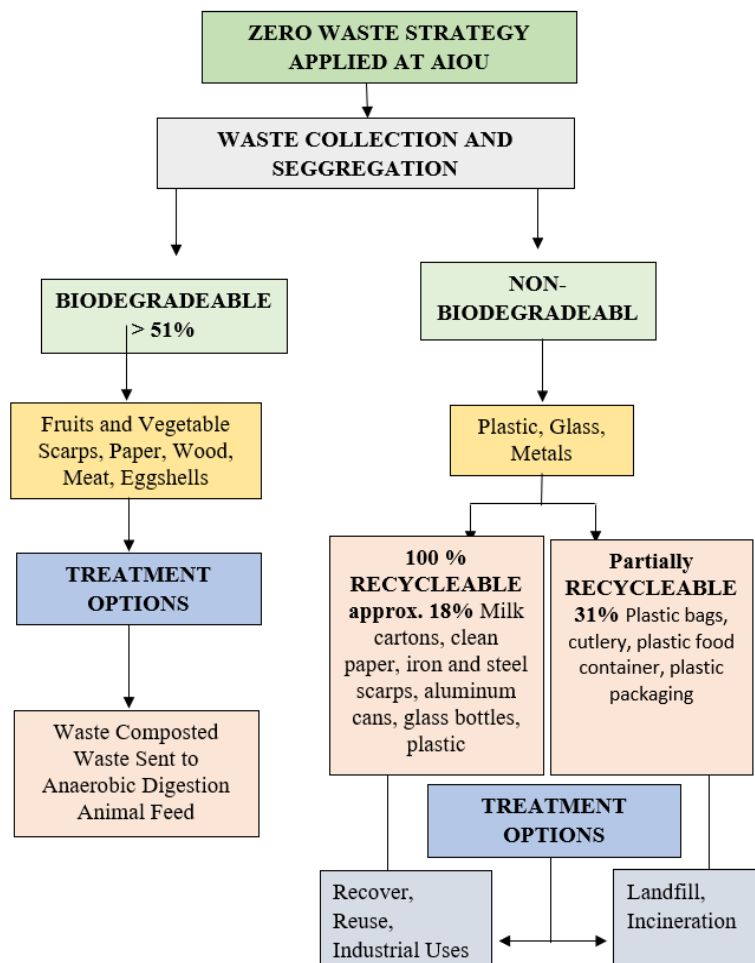


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[3] Waste (WS)

[3.5] Toxic Waste Treatment



Zero Waste strategy is implemented at AIOU



Toxic Waste Collection and treatment at AIOU labs



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Description:

1. At AIOU, toxic waste is produced at a minimal level.
2. All toxic waste is treated efficiently before disposing it off completely.
3. Toxic waste like plastic and other types are being disposed of through Solid waste Disposal plants. The waste is chemically treated and converted to less dangerous products.
4. The toxic waste produced at Bio labs is first autoclaved and then disposed of through solid waste disposal plant.
5. AIOU Labs handle hazardous waste and implement zero waste strategy to treat and use it further.
6. AIOU manages disposal of toxic waste through different companies. It utilized the help of EMC Pakistan (Pvt.) Limited in year 2019. EMC handles hazardous waste and suggest the cost-effective way of disposing it. They also stress on three R's i.e. Reduce, Reuse and Recycle while suggesting any solution related to hazardous waste management. They also provided its services for collection, transportation and disposal of AIOU toxic waste.

http://oric.aiou.edu.pk/?page_id=2233



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[3] Waste (WS)

[3.6] Sewage Disposal



AIOU's Sewage Collection System

Description:

1. The sewage solid and liquid waste is carried away through pipelines spread throughout the university building. These pipes carry this sewage material to a sewage treatment plant to separate solid and liquid through the process of chemicals.
2. At AIOU, sewage is treated in two phases. In phase I, the solid waste is removed and the sewage sludge is used for watering Olive and the Botanical Garden.
3. In Phase II, after removal of solid waste bacterial decomposition is done and the treated water is used for car washing, washing of campus pathways and other cleaning activities.
4. The bioremediated water is also utilized for irrigation purposes for different plants and flowers grown in parks managed by AIOU.
5. The AIOU buildings have extensive sewage disposal system consisting of sewage collection ducts and underground septic tanks that are drained into the main Sewage Disposal System.
6. AIOU works department has a duty to cleanse and maintain these sewage lines to ensure that the area that they serve is effectively drained. There is also a duty to make provision for the emptying of those sewers, normally through sewage treatment works, or where appropriate, through discharges direct to watercourses.