



ACP-EU Cooperation Programme in Higher Education (EDULINK)
A programme of the ACP Group of States, with the financial
assistance of the European Union.



Masters Programme (MSc) on Solid Waste and Resource Management.

A new post graduate programme of the Civil
Engineering Department at UNITECH.

Chris Kobal, PNG partner of CODWAP project



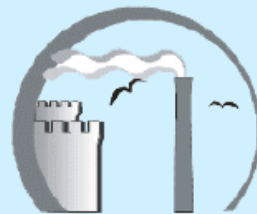
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The curriculum for this MSc was developed in the frame of the EDULINK project CODWAP, coordinated by

Aristotle University of Thessaloniki, Greece,
with partners from:

- **University of Mauritius**
- **Hochschule Bremen, University of Applied Sciences, Germany**
- **Fourah Bay College, University of Sierra Leone**
- **University of Technology, Papua New Guinea**





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Introduction:

Solid waste has been evolving into a major problem that has reached proportions requiring radical measures. Increase in generation rate and change in the quality of solid waste have been observed together with inadequate legislation and high costs for collection and disposal. It is therefore Crucial to adopt an integrated approach to develop a framework for solid waste management. This includes social, economic, technology, political and administrative elements.



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Aims and Objectives:

- ❖ The program is intended to provide an in depth knowledge of solid waste management with a focus on management systems and treatment methods related to environmental policies.
- ❖ Moreover, principles of solid waste management, design of treatment plants, recycling methods, environmental economics, treatment options, policy issues and sustainable production will also be considered in an integrated approach.
- ❖ The program will cover Waste Management, Environmental Economics and Policies, as well as Environmental Technologies and Processes, tailored especially to Developing countries and transitional economies.



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CURRICULUM

(1) CORE MODULES

- 1.Introduction to Solid Waste Management
- 2.Recycling and Resource Management
- 3.Mechanical, Biological and Thermal Waste Treatment
- 4.Hazardous Waste Management
- 5.Waste Management Systems
- 6.Final Disposal /Land-filling in Developing Countries
- 7.Research Methods
- 8.Research Project



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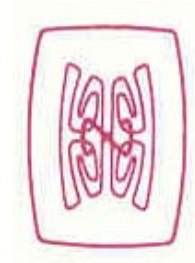


(2) ELECTIVE MODULES

1. International Environmental Policy
2. Environmental Economics
3. Mining Waste Management
4. Sustainable Production Technologies
5. Environmental Management Systems
6. Special Waste Management (hospital, industrial, etc.)



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Minimum Credits Required for Awards

	Core	Project	Elective	TOTAL
Master's Degree	21	9	6	36
Postgraduate Diploma (Exit Point)	21		3	24
Postgraduate Certificate (Exit Point)	15			15

- ❖ Each module has 3 credits except the Research Project which has 9 credits;
- ❖ All CORE modules have to be completed for the award of the Master Degree;
- ❖ ELECTIVE modules are to be selected from the list of modules;
- ❖ Each module will be taught over a 15 week period.
- ❖ Possibilities for exit points at Postgraduate Diploma/Certificate Level.



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Programme Plan: Year 1 – Semester 1

Code	Module Name	Hrs/Wk	Credits
<u>CORE:</u>			
CHE 5101	Introduction to Solid Waste Management	3	3
CHE 5102	Recycling and Resource Management	3	3
CHE 5103	Mechanical, Biological and Thermal Waste Treatment	3	3
<u>ELECTIVES:</u>			
CHE 5104	International Environmental Policy	3	3
CHE 5105	Environment and Economics	3	3
CHE 5106	Mining Waste Management	3	3
ENGG 6202	Research Methods		



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Programme Plan: Year 1 – Semester 2

Code	Module Name	Hrs/Wk	Credits
<u>CORE:</u>			
CHE 5201	Hazardous Waste Management	3	3
CHE 5202	Waste Management Systems	3	3
CHE 5203	Final Disposal/Land-filling	3	3
CHE 5000	Research Project	9	9
<u>ELECTIVES:</u>			
CHE 5204	Sustainable Production Technologies	3	3
CHE 5205	Environmental Management Systems	3	3
CHE 5206	Special Waste Management (hospital/Industrial Waste)	3	3



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Enrolment Conditions:

Applicants holding a university degree other than engineering or science can also be admitted on the programme if they have at least 2 years of relevant work experience.

Applicants will be expected to have adequate knowledge of the English language.

Programme Duration:

The program will be offered on a fulltime basis and should normally not exceed 2 years (4 semesters).

	Normal	Maximum
Masters Degree	2 semesters	4 semesters
Postgraduate Diploma	2 semesters	4 semesters
Postgraduate certificate	2 semesters	4 semesters



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Solid Waste Management in PNG

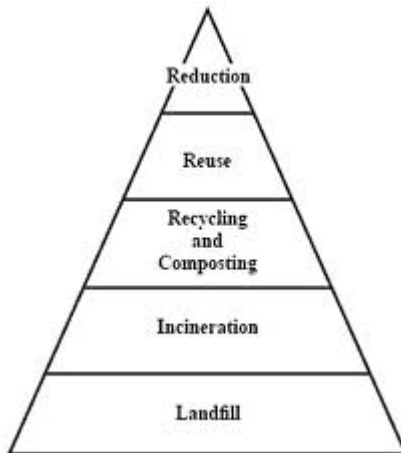
Acts and Regulations – Enacted by Government.

1. *Environment Act , 2000* – Dept. of Environment and Conservation – e.g. Section 39 - Prov. Governments can enact Prov. Environ. Acts.

2. *Public Health Act , 1973* and *Public Health (Sanitation and General) Regulation, 1973*. Dept. of Health. Medical Waste.

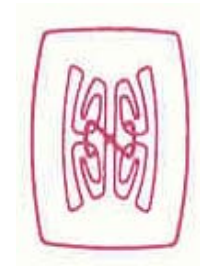


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**END OF PRESENTATION
QUESTIONS?**