

CV

Name : DOOKHUN Vimi (Mrs)
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QUALIFICATIONS

- 2016:** **PhD in Environmental Risk Management - PhD Research** << Assessing the environmental risks associated with Persistent Toxic Substances in Mauritius : The case for mercury >>, University of Mauritius, Mauritius and one year attachment at University of Surrey, UK on ACU Scholarship 2009.
- 2003:** **Certificate** in Management of University-Entreprise Relationships, UNESCO, Paris.
- 2002:** **MSc in Environmental Engineering** (UoM), Mauritius.
MSc Thesis title: Hazards analysis at Port Louis Harbour
- 2000:** **B.Eng (Hons) in Chemical and Environmental Engineering** (UoM), Mauritius.
B Eng Thesis title: Identification of 'Cleaner Production Opportunities in a textile factory in Mauritius
- 1998:** **Diploma in Chemical and Sugar Engineering** (UoM), Mauritius.

Professional Membership, Awards and Scholarships

Scholar of the Commonwealth Split site Doctoral scholarship in 2009 (Completed at the University of Surrey, Guildford, UK)

Associate member of the Mauritius Academy of Science and Technology (AMMAST)

Member of UK Commonwealth scholarships Alumni Chapter (UKCAC)

Member of ISSCT (International society for cane and sugar technologists)

Member of International Society of Industrial Ecology ISIE, USA

Corporate Member of the Institution of Engineers Mauritius (IEM)

Awardee of Women of Wonder (WoW) by Pancache Promotions partnering with African Women of Power (AWOP) Oct 2018.

Awardee of Second best national project (National Productivity Quality Contest 2019)

National Jury for school competitions on sustainable development (2019).

National Jury for leadership award for colleges by national productivity council (2019)

Awardee of Organisation for the Prevention of Chemical Weapons (OPCW) Associate Programme Training scholarship (2020)

WORKING EXPERIENCE

Sep 2002-to date Lecturer / Senior Lecturer, Head of department -Dept of Chemical and Environmental Eng, Faculty of Engineering , University of Mauritius.

May 2001-Aug 2002 Assistant Manager, Mauritius Standards Bureau (MSB) , Moka, Mauritius.

Sep 2000-Oct 2000 Research Assistant, Cernol Chemicals Ltd. Mauritius.

May 1998-Aug 1999 Trainee at Standards Development Division, MSB, Moka, Mauritius.

Feb 1996- Jul 1996 Quality Officer at textile factory, Tee Sun Ltd, Riviere Du Rempart, Mauritius.

Area of Expertise

ENVIRONMENTAL RISK MANAGEMENT, CIRCULAR ECONOMY, ENVIRONMENTAL AND QUALITY MANAGEMENT, CHEMICAL PROCESS SAFETY, CLIMATE CHANGE.

LECTURER FOR MODULES FOR PROGRAMME ON CHEMICAL AND ENVIRONMENTAL ENGINEERING AND RENEWABLE ENERGY ENGINEERING SINCE 2002,

DEVELOPED MODULES IN THE FOLLOWING AREA: Environmental Management and Sustainability; Environmental Risk Assessment Methodologies, Environmental management tools (including ISO Environmental Management standards, environmental modelling, GHG emissions inventory, PAS 2050, ISO 14064 and environmental performance monitoring for industries, and Environmental Impact Assessment .

TAUGHT MODULES (2002-2022) - for undergraduate level (1) Environmental Management Tools;(2) Cleaner Production Technologies;(3) Wastewater disposal methods and water audits;(4) Chemical Process Safety and Loss Prevention;(5) Industrial Hygiene;(6) Occupational Health and Safety ;(7) Chemical Process Design and Simulation-UG;(8) Heat Transfer-UG;(9) Chemical Process Safety and Risk Management;(10) Quality Systems;(11) Research and Statistical methods (12) Sustainability systems and standards (13) Waste management

TAUGHT MODULES(2002-2022) - at postgraduate level (1) Qualite Securite et Surete ;(2) Environmental management and sustainability; (3) Research Methods (4) Environmental Management and sustainability

MODULE TAUGHT WITH ASSESSMENT OF GRADUATE ATTRIBUTES / EXIT LEVEL OUTCOMES: ENVIRONMENTAL MANAGEMENT- GA 7 SUSTAINABILITY AND IMPACT OF ENGINEERING ACTIVITIES, CHEMICAL PROCESS DESIGN AND SIMULATION- GA 2 APPLICATION OF SCIENTIFIC AND ENGINEERING KNOWLEDGE AND 5 ENGINEERING METHODS, SKILLS AND TOOLS, INCL, IT.

Professional courses taught in line with expertise required: (1) Enterprise Risk Management (Tailored professional course for Mauritius Port Authority),(2) Chemical and chemical waste Management for MEXA ;(3) Sustainable procurement method, Environmental Management for the Tourism sector in context of the Project Funded by EU on Greening of the Tourism Industry for Mauritius.

Fields of research work: Environmental Risk Management ;
Waste management strategies (chemical and hazardous wastes);
Environmental and quality management;
Standards development of products and systems;
Auditing of quality and environmental management system;
Process design and safety of operations;
Occupational safety and Industrial food hygiene;
Renewable energy and clean energy management;
Water and waste water management.
GHG emissions inventory.

National Projects where I acted as principal investigator and consultant:

- Developed a National Mercury inventory assessment for Mauritius (project financed by UNEP).(2017)
- Developed National Profile for Chemicals for Mauritius in partnership with Basel Regional Centre, UNEP and local governmental agencies. (2007)
- National project on Greening of the Tourism Industry in Mauritius. Published a manual on Sustainable Tourism best practices,(2018)
- Acted as local consultant in drafting of Mauritian standards [for environmental and quality management systems , chemical products, circular economy, transport of dangerous goods] at the Mauritius Standards Bureau. (ongoing)
- Acted as resource person for the module Qualite, Securite et Surete: POR 6005 for the MSc in Port Management (Joint programme offered by the University of Mauritius and Universite de Aix, Marseille).
- Corrosion assessment for brass ferrules. ' Client Sotravic Ltd' April 2020.
- Setting up of a National environmental observatory for Mauritius: Development of the Terms of Reference (2021)

COMPUTER SKILLS : Microsoft Office, Autocad, Autosketch , GIS software and Emergency management Softwares ; consequence modelling softwares such as CAMEO (Computer Aided Management of Emergency Operations) Aloha, Marplot , Aspen Plus software, LCA software, Gabi and Environmental Multimedia Modelling Software. Soil Water Analysis software (SWAT model).

Conversant with local environmental legislative frameworks, multilateral environmental agreements, as well as ISPS code, WEEE Directive and international environmental standards (ISO 9001, 14000 series of standards) ; Mauritian Food Act, REACH Directives and RoHS directives. EPA, OHSAS 18001, OSHA ;Minamata Convention , Stockholm Convention among others.

LANGUAGES WRITTEN AND SPOKEN- English, French, Creole, Hindi and Bhojpuri

Consultancy projects involvement:

1. June 2011 - Nov 2011 - Maurice Ile Durable , Client Ministry of Environment and Sustainable Development (acted as reporter and author for the chapter on Energy)
2. May 2016 - June 2017 : Mercury Initial inventory assessment for the Ministry of Environment Mauritius and UNDP. Acted as investigator and Project leader
3. Feb 2016 - June 2017 : Training on Risk Management for Mauritius Ports Authority. Trainer
4. October 2016 to July 2018 : Training on Environmental principles and best practices in Hotel industry , Environmental management system and Sustainable Sourcing measures for the Hotel industry. (Lead consultant)
5. Sotravic Ltd 2019- Assessment of corrosion of brass ferrules.
6. Setting up of a national environmental observatory for Mauritius (Ministry of Environment Solid Waste Management and Climate change, Mauritius)

PUBLICATIONS AND CONFERENCES:

1. Research paper on 'Thermodynamic simulation and evaluation of sugar refinery evaporators (2010)
2. Mercury waste at Mare Chicose Landfill, 20th ICCE Conference Proceedings (2009)
3. Assessing Environmental risks associated with Persistent Toxic Substances (PhD Thesis) (2015)
4. Baseline Study Towards Non Toxic Environment in Africa: Country Report. Basel Convention Regional Centre (BCRC) Pretoria.
5. Technical report on Stocktaking and Stakeholder Consultation for Climate Change Activities. Published by Mauritius Meteorological Services(2006),
6. Hazards analysis at Port Louis Harbor ,(UoM) (Master's degree Thesis) (2002)
7. Cleaner Production at Floreal Dyehouse (B Eng thesis) (2000)
8. Technical report on Setting Up of a national Environmental Observatory for Mauritius (2021)
9. Guidance Manual on Greening the Mauritian Tourism Industry- Switch Africa Green, (2019)

List of selected publications:

1. LEWIS, A. E., KHODABOCUS, F., DOOKHUN, V., KHALIFE, M., (2010). 'Thermodynamic simulation and evaluation of sugar refinery evaporators using a steady state modelling approach'. *Applied Thermal Engineering Vol 30 (2010) Issues 14-15*
2. DOOKHUN, V. and MAHADEO, K., (2009). 'Assessment of Mercury pollution at Mare Chicose Landfill'. In: Gupta- Bhowon, M., Jhaumeer-Laulloo, S., Li Kam Wah, H., and Ramasami, P. Editors of proceedings Chemistry Education in the ICT age. Springer Netherlands. 427-435
3. Assessing Environmental risks associated with Persistent Toxic Substances (PhD Thesis) (2015) .University of Mauritius Library
4. CHOONG KWET YIVE, N.S and DOOKHUN, V., 2007. Baseline Study Towards Non Toxic Environment in Africa: Country Report. Basel Convention Regional Centre (BCRC) Pretoria. { Principal investigator V Dookhun}
5. Technical report on Stocktaking and Stakeholder Consultation for Climate Change Activities. .(2006) Published by Mauritius Meteorological Services,
- 6, Dookhun V , Pawan Y, Khamudu L and Venkama A. ' Sustainable Tourism: A self -assessment and implementation guide' for hotels. (2019). [Book]

Others

Panelist for the Round table discussion Free Education in Public institutions and oral presenter of Talk: Gender equality and free education (March 2019)

Panelist for thematic discussion: Women in Engineering (Conference to commemorate the 70th Anniversary of the Institution of Engineers Mauritius) (Nov 2018)

Convener of Round table discussion on CSC Gender Focus Group in context the 18th Commonwealth Conference of Educational Ministers 18CCEM (2012) , reported in CSC news 16th Edition.



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Date: 25 Jan 2023....

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