

May 2024 02-03

(3rd edition)

Organised by the DOCTORAL SCHOOL, UNIVERSITY OF MAURITIUS (UoM)

ACADEMIC PARTNERS





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02-03 May 2024 (3rd edition)

OPENING PROGRAMME DAY 1 — THURSDAY 2 MAY 2024

Register here: https://forms.gle/pRSv7EkR8eb48Cr68

OPENING CEREMONY & KEYNOTE ADDRESS

09:00 - 10:30

VENUE: LECTURE THEATRE 2

	VENUE. ELOTORE THEATRE 2
09:00 - 09:15	Registration
09:15 - 09:20	Welcoming remarks by Assoc Prof (Dr) Vidushi Shradha Neergheen Director Doctoral School University of Mauritius
09:20 - 09:25	Address by Prof (Dr) Mohammad Issack Santally Pro-Vice-Chancellor (Academia) University of Mauritius
09:25 - 09:30	Address and Official Opening of the Doctoral Colloquium by Prof (Dr) Sanjeev Kumar Sobhee Vice-Chancellor University of Mauritius
09:30 - 10:00	Keynote Address: 'Where am I going and how do I get there.' by Prof Karl R Matthews Department of Food Science School of Environmental and Biological Sciences Rutgers University, USA
10:00 - 10:10	Address on 'National Funding Opportunities for Doctoral Students' by Prof (Dr) Romeela Mohee, CSK Commissioner, Higher Education Institution
10:10 - 10:15	Q&A
10:15 - 10:25	Address on 'International Funding Opportunities for Doctoral Students' by Prof (Dr) Kiran Bhujun Director Tertiary Education and Scientific Research Division Ministry of Education, Tertiary Education, Science and Technology
10:25 - 10:30	Q&A
10:30 - 11:00	Tea Break

DAY 1THURSDAY 2 MAY 2024

Panel Discussion: Mental Health and Wellbeing during your MPhil/PhD Journey

Moderator: Assoc Prof (Dr) V Teeroovengadum

11:00-12:00

VENUE: LECTURE THEATRE 2

11:00- 11:05	Introduction to the Panel Discussion by Assoc Prof (Dr) V Teeroovengadum
11:00-11:15	Dr Anishta Gunesee, Health Psychologist and Director of Strategic Holistic Development Ltd "Balancing Mental Health and Wellness for Greater Efficiency"
11:15-11:30	Dr Fiona Grant, Senior Lecturer, Faculty of Social Sciences and Humanities University of Mauritius "Yes, you can: Wellbeing and Graduate Studies"
11:30-11:45	Dr Upasana Singh, Academic Leader and Senior Lecturer in Information Systems and Technology, University of KwaZulu-Natal, South Africa "Navigating your PhD Journey with Digital Wellness"
11:45-12:00	Q&A
12:00-13:00	Lunch

Register here

Online Presentations 13:30-17:00 (Zoom meetings)

PARALLEL SESSIONS I: 13:30-15:30		
TRACK 1 (Online) THEME: Advances in Medicine, Biomedical	Antibacterial activities of five medicinal plants from Mauritius and Comoros islands A13 Chahidat MOHAMED SOUDJAY	
Research and Allied Health Sciences (1) Chair: Assoc Prof (Dr)R Jeewon	2. In vivo study of cortisol on angiogenesis in the chorio-allantoic membrane (CAM) as a model for elucidating impacts of maternal stress on placental angiogenesis A17 Deeksha Aarti NURSIMULU	
Zoom Link	3. Perception of Wellbeing among Women in Mauritius: A Qualitative Study A28 Poonam (Emma) SADDUL	

Discussants

Assoc Prof (Dr) K Boodhoo Assoc Prof (Dr) G Chinien

- 4. Sensory Analysis and Consumer Acceptance of novel nutraceuticals developed from underutilised Mauritian fruits A41 Bibi Warda JAUMBOCUS
- 5. Investigating the Decomposition Process, Arthropod Succession and Forensically Important Flies on above Ground Exposed Carrion under TWO Environmental Settings in Mauritius to Estimate Post Mortem Interval A44 Sean SOHUN
- 6. Exploring the potential mechanisms of luteolin against ulcerative colitis and colorectal cancer via network pharmacology and molecular docking B1 Qiang ZHANG
- 7. Harmonizing the outcomes of the Cuban-South African medical collaboration with health policy objectives within KwaZulu-Natal **B6 Valerie CHINNIAH**

TRACK 2 (Online)

THEME: Business Management

Co-Chairs: Assoc Prof (Dr) V Teeroovengadum & Dr U Singh

Zoom Link

Discussants

Dr E Bindah Dr P Gunesh Assoc Prof (Dr) M Gungaphul Dr V Oogarah-Hanuman Dr T Mbhele Dr S Pudaruth Dr R Sannegadu Dr A Seebaluck

- 1. Merchant Adoption of Mobile Payment Services in Mauritius: Factors, Implications, and Future Directions A1 Leenshya GUNNOO
- 2. Human Resource Development, Workplace Learning Effectiveness and Internal Service Quality in the Public Sector: Development of an Instrument and Testing of a Predictive Structural Model A23 Balakrishnen TANDARAYEN
- 3. Employability Challenges in Mauritius in a Technological Innovation Era A26 Joseph Essèmou-Abalè Kossi ASSOGBAVI
- 4. Exploring the relationship between work-life integration, organizational commitment and exhaustion in the conservation sector within Africa A56 Ravi Kumar KEENOO
- 5. Marketing 5.0 and Beyond: Aligning South African marketing curricula and practice in the age of advanced technologies B4 Nkunda Nelson KAGABO
- Efficiency: Exploring Cutting-Edge Tools 6. Unlocking and Technologies for Digital Public Health Supply Management Optimisation B5 Ahmed Abdallah ADAM
- 7. Dynamics on manufacturing for feminine hygiene products in selected small and medium enterprises B14 Remofilwe V. TLHABUDUGWANE
- 8. Diffusion of omnichannel retailing: Towards seamless retail B15 Michelle N NDIWENI

THEME: Ecology, Environment and Marine Sciences

Chair:

Dr S Mattan Moorgawa

Zoom Link

<u>Discussants</u> Assoc Prof (Dr) V Florens

- 1. Influence of an island flying fox on commercial fruits and damage mitigation to reduce human-wildlife conflict *A46 Geetika BHANDA*
- 2. Evaluating the roles of tropical pioneer trees' for restoration and conservation management using Harungana madagascariensis (Hypericaceae) as a model. *A47 François BAGUETTE*
- 3. An Assessment of the Longline and Purse Seine Fisheries in the Republic of Mauritius

 A55 Ritesh SOOBHUG
- 4. Application of spatial conservation prioritization for terrestrial ecosystem management: a tropical island oriented global systematic review

 A57 Mohammad Imthiaz Zulfur Ali SHEIK ABBASS
- 5. A review of the impact of alien species on the biodiversity of a tropical oceanic island in the Indian Ocean.

 A58 Ghanishta SEEBURRUN
- 6. Spatio-temporal activity patterns of an Endangered Mauritian endemic insectivorous bat through passive-acoustic monitoring: conservation implications

 A59 Yogishah BUNSY
- 7. Investigation of the physico-chemical aspects of Ocean Acidification in some selected lagoons around Mauritius

 A61 Yadhav Abhilesh IMRIT
- 8. Formulation of a framework for enhancing governance of adaptation to the adverse impacts of climate change and disaster risk reduction in the Republic of Mauritius

 AA1 Jacques Rudy OH-SENG

PARALLEL SESSIONS II 15 :40-17 :10		
TRACK 1 (Online) THEME: Engineering Science	1. Application of Deep Learning to monitor Adherence of Covid-19 Pandemic Guidelines in Mauritius A10 Muhammad Bin Abubakr JOOLFOO	
and Technology (1) Chair: Assoc Prof (Dr). A P Murdan	2. Exergaming Development Framework for Promoting Peer Socialisation and Physical Exercise Among Older Adults A16 Shehzad JAUNBUCCUS	
Zoom Link	3. Design of a User-Friendly, Smart, and Assistive Kitchen for the Mauritian Elderly A34 Yovesh BHIWOO	
<u>Discussants</u> Assoc Prof (Dr) V D Bassoo Dr Y Beeharry	4. A misconstrued typology: A comparative analysis of traditional and digital food supply chain real life cases A36 Jonas Shafondino KAMAKELA	
	5. Analysing 5G Mobile Data Network and Coverage Energy Efficiency in Dense Urban Environments A38 Bhuvaneshwar DOORGAKANT	
	6. Development of an algae-based biopolymer-natural fibre reinforced composite for packaging application A48 BUXOO Swabiiha	

TRACK 2 (Online)	1. Women and Empowerment in Migration Literature
THEME: Economics and	A9 Kenneth MAHUNI
Statistics	2. Unveiling the Impact of Financial Constraint on Firm Innovation: Evidence from Selected Emerging Economies A22 Mahdevi TIAGARASSA PILLAY
Chair:	TILL MANAGOV TIMOMATION TILLIM
Assoc Prof (Dr) I Ramlall	3. Malaria's impact on Nigeria's economy's productivity
Zoom Link	A31 Julius Olaposi OLABISI
	4. Public Debt and Welfare Expenditure
<u>Discussants</u> Dr Z Jannoo	A51 Damini Ayeshka MOHIT
Mr M Hosenally Assoc Prof (Dr) R Sultan	5. Electrifying the Automobile Sector in Mauritius: Investigating Key Factors Influencing Electric Vehicles' Purchase Intention AA5 Hariram GUNGAH

TRACK 3 (Online) THEME: Cultural Studies,	1. Le spectacle vivant engagé mauricien: un marronnage culturel A4 Marie-Anne Émilie Véronique NANKOO
Literature and Linguistics Chair: Dr F Grant	2. Matrimoines culturels, mémoriels et littéraires La femme et l'esclavage dans les îles des Mascareignes A24 Vickie VAN SCHELLEBECK -MAUDRAME
Zoom Link Discussants	3. An analysis of social consciousness in the Satire writing (stories and selected short stories) of Ramdeo Dhurundhur in the context of Mauritius A32 Antee DOOKHEEA
Ms Vina Ballgobin Dr M Bamboche Ms D Gokulsing	4. The Humoristic Ségas of Mauritius as Musical Discourse: a musical and text ual analysis in an evolving socio-cultural context A53 Soondal Koomar SURRUN
	5. Music Education in Practice A62 François Jean-René BASTIEN
	6. The Queer Body: Representational space of Alternative Sexualities in Selected Mauritian Novels AA4 Vidoushi RAMJHEETUN LOCKNAUTH

DAY 2 FRIDAY 3 MAY 2024

Online presentations 8.45-13.00 (Zoom meetings)

(20011 meetings)		
PARALLEL SESSIONS I 8:45-11:00		
TRACK 1 (Online)	1. Proposing a Next-Generation Framework for Teaching and	
THEME:_Education/Higher Education	Learning Aligned with Sustainable Development Goals A2 Chitisha GUNNOO	
Co-Chairs: Dr D Cooshna Naik & Prof M Naude	2. An Investigation into the Instructional Effectiveness of Virtual Reality for Practical Classes in a Chosen STEM Subject at Post-Secondary Level A5 Sweety Anoucheka GANGABISSOON	
Zoom Link	3. Development of a sustainability-Driven TQM Model for Higher	
<u>Discussants</u> Assoc Prof G Bahadur Mrs S Gunness	Education Institutions (HEIs) A25 Keshav Panray JUNGBADOOR	
	4. Development of Digital Tools for Out-of-Classroom Learning and Their Impact on Students' Scientific Literacy A39 Hemraj RAMSURRUN	

5. Developing a Mobile Learning Framework to study its effectiveness on the learning performance of secondary school students in Mauritius A43 Bisswarnath MUNGUR
6. A phenomenological evaluation of how the leadership styles of Heads of schools impact upon the empowerment of educators for effective performance and management in Mauritian secondary schools AA3 Gurudutt CAUNHYE
7. Usability Context and Adoption of Human Capital Management Systems in Ugandan Public Universities: Application of the Unified Theory of Acceptance and Use of Technology B2 Mutuzo Irene ESTHER
8. Reimagining the South African Skills Development Approach: Bridging the Gap between Policy Intentions and Outcomes B10 Mlungisi MTHEMBU
9. Open AI and Academic Fraud B13 Oluwafisayo KAKA

TRACK 2.1 (Online)	1. Evaluating the empirical models of e-commerce adoption	
THEME: Law	A50 Varsha MOONEERAM-CHADEE	
Co-Chairs: Assoc Prof (Dr) A Mahadew & Dr D Michel	2. A critical analysis of the loss and damage principle and its potential application for the benefit of Small Island Developing States	
Zoom Link	B18 Krishnee Adnarain APPADOO	
<u>Discussants</u> Dr G Georgijevic		

Co-Chairs: Prof (Dr) R Nunkoo & Dr R Bhattu-Babajee Demand- A Gravity Model Approach A15 Rookayyah IMAMBOCCUS 3 Understanding Water Governance Dynamics in Rural Areas: A Cas	TRACK 2.2 (Online) THEME: Tourism and Sustainability	Poverty Impacts of Trade Liberalisation in Mauritius: An Empirical Analysis A6 Miss Ravisha Subramanyan
3 Understanding Water Governance Dynamics in Rural Areas: A Cas	Prof (Dr) R Nunkoo	• • • • • • • • • • • • • • • • • • • •
B9 Melody SHAYAMANO	& DI K Bhattu-Babajee	3 Understanding Water Governance Dynamics in Rural Areas: A Case Study of Vhembe District Municipality B9 Melody SHAYAMANO

Zoom Link

Discussants Asso Prof (Dr) S Fauzel Dr C Hurnath

3. The extent, nature and effects of green marketing in hotels in Port Alfred, South Africa

B16 Tonderai MAWOPA

TRACK 3 (Online)

THEME: Advances in Medicine, Biomedical Research and Allied Health Sciences (2)

Co-Chairs: Assoc Prof (Dr) R Jeewon Prof X Kong

Zoom Link

<u>Discussants</u>
Dr S Biranjia Hurdoyal
Dr I Mohamadhosen
Assoc Prof (Dr) V S
Neergheen

- 1. Cooked Moringa oleifera leaf extracts induce cell death of liver cancer cell via the parthanatos pathway

 A42 Annaelle Kate Siaw Lim HIP KAM
- 2. How relevant is the carcinoembroyonic antigen (CEA) and carbohydrate antigen (CA 19-9) cancer markers in the diagnosis of diabetes and metabolic syndrome in a cohort of Mauritians *A45 Vashist Virishi Kumar HEMRAJ*
- 3. Core-shell structured microneedles with programmed drug release functions for hyperuricemia management *B7 Rui WANG*
- Ovalbumin-loaded manganese based magnetic nanoparticles, T1-MR imaging and photoimmunotherapy B8 Yike HOU
- 5. A novel approach of drug-loaded pH-responsive hydrogels for the management of inflammatory disorders

 B12 Muhammad SUHAIL
- 6. Silk fibroin-based bioactive materials for tissue engineering applications

 B17 Perumal Ramesh Kannan

TRACK 4 (Online)

THEME: Energy

Chair: Assoc Prof (Dr) I Jahmeerbacus

Zoom Link

<u>Discussants</u> Prof (Dr) R T F Ah King Assoc Prof (Dr) V Oree

- 1. Renewable Energy Policies in Sub-Saharan Africa: an Analysis of Strategies, Challenges, and Pathways to Sustainable Development *A7 Brian MOYO*
- 2. Development of a Robust Risk Assessment Model for Improving Solar Photovoltaic System Bankability in Mauritius A comprehensive risk assessment approach to improve solar PV bankability in Mauritius

 A11 Chandrika RAMIAH
- 3. Static and dynamic distribution network reconfiguration with the integration of distributed generation units

 A18 Pamela RAMSAMI
- 4. Study of the Transient Stability of an Interconnected Grid operating under Optimal Integration of Variable Renewable Energy: A case of the Southern African Power Pool (SAPP)

A	19 Mbiko BANDA
gr	npact of large-scale deployment of electric vehicles on the power and mitigation strategies 20 Muhammad Zia-Ul-Mubashirr BHATOO

PARALLEL SESSIONS II 11:10-13:00		
TRACK 1 (Online) THEME: Engineering Science	U-Net Model for Drone Image Segmentation of Eroding Beaches in Mauritius A29 Azina NAZURALLY	
and Technology (2) Chair: Dr R Elaheebocus	2. An Automatic Speech Transcriber for Audio News in Kreol	
Zoom Link	3. Asymmetric Double Autoregressive (DAR) Model A54 Winfred Waruguru MUCHANGI	
<u>Discussants</u> Assoc Prof (Dr) Y Chuttur Assoc Prof (Dr) B Gobin Assoc Prof (Dr) N Gooda Sahib	4. Perception of entrepreneurs on mobile payment services in Mauritius AA2: Marie Belinda Carlise POUSSIN DEOJEE	
	5. Improving customer service in Ghana's banking industry utilizing ChatGPT for better understanding of customer sentiments B3 Prince Kelvin OWUSU	
	6. A Machine Learning-Based Model for Predicting Political Misinformation On X: Insights from Kenya B19 Doreen BUNDI	

TRACK 2(Online) THEME: Agriculture,	1. Socio-economic impacts of cows' milk production in Mauritius A8 Bilamakaza Souriatou TAGBA
Biotechnology and Natural Resources	2. Bioactivity of Ulva lactuca and Sargassum obovatum against mycotoxigenic fungi affecting broiler health and feed safety A27 Shama RAMBORUN
Assoc Prof (Dr) J Govinden- Soulange Zoom Link	3. Molecular and phenotypic characterization of the causative agents of Early Blight in open-field tomato crops and their dependence on climatic factors A30 Nooreen MAMODE ALLY
	4. Phenotypic and Genome characterization of local varieties of sweetpotato A33 Yakshini BOYJNATH

Discussants

Dr V Bhoyroo Prof (Dr) Y Jaufeerally Fakim Mr S Hardowar Assoc Prof (Dr) H Neetoo Dr S Santchurn

- 5. Market Linkage Strategy for Improving the Performance of Ethiopian Smallholder Farmers Wheat Production: A Qualitative Study on Bale Zone Smallholder Farmers, Oromia Region A35 Kasim Kelil JARSO
- 6. Incidence and severity of major postharvest fungal diseases affecting potatoes & influence of temperature and relative humidity on growth of their causative agents using in-vitro studies.

 A37 Sandhya Devi TAKOOREE
- 7. Assessing the commercial feasibility of a citrus pectin coating enriched with bioactive compounds extracted from the Rodriguan lime to extend the shelf life of minimally processed fruit and vegetables in Mauritius.

 A60 Liza CLOETE

TRACK 3: (Online)

THEME: Accounting and Finance

Co-Chairs:
Prof (Dr) B Seetanah
& Assoc Prof (Dr) S Fauzel

Zoom Link

<u>Discussants</u>
Dr R Bhattu-Babajee,
Dr N Gopy-Ramdhany
Dr J Matadeen
Assoc Prof (Dr) U Subadar

- 1. The Determinants of Human Capital: A Review of the Literature *A3 Vilesh Ray SEEBARUTH*
- 2. An Analysis of the Effect of Risk on Foreign Direct Investment Using a Meta-Analysis

 A12 Kilvanee MOOTOOPERIAN
- 3. Future of Blockchain Technology in Banking Industry: A qualitative study

 A14 Rudranee Devi DEELJORE
- 4. Researching the advancement of technology in the insurance sector that would boost up the Economy and Financial Inclusion *A21Tosina RAJIAH*
- 5. Financial technology and Entrepreneurship in Kenya: Firm-level evidence on its uptake

 A40 Rodgers Musamali ANYANGA
- 6. Exchange Rate Volatility and Export: A Meta-Regression Analysis *A49 Kounshika Devi KASI*



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CLOSING PROGRAMMEDAY 2 — FRIDAY 3 MAY 2024

14.45 -16.00 VENUE: LECTURE THEATRE 2

14:45-15:00	Registration
15:00-15:05	Welcoming remarks by Assoc Prof (Dr) Vidushi Shradha Neergheen Director Doctoral School University of Mauritius
15:05-15:10	Address by Prof (Dr) M Mohammad Issack Santally Pro-Vice-Chancellor (Academia) University of Mauritius
15:10-15:25	Address on "Role of Doctoral Students in the Global Innovation Index" by Prof Theeshan Bahorun, GOSK Executive Director Mauritius Research and Innovation Council
15:25-15:30	Q&A
15:30-15:55	Presentation by the best presenters of the Doctoral Colloquium
15:55-16:00	Award ceremony and Closing



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Doctoral Colloquium Organising Team

Doctoral Colloquium Chair: Assoc Prof (Dr) V S Neergheen (Doctoral School)

Organising Committee: Dr M Akung, Dr D Cooshna-Naik, Dr R Elaheebocus, Assoc Prof (Dr) J Govinden Soulange, Assoc Prof (Dr) R Jeewon, Assoc Prof (Dr)N MamodeKhan, Dr S Mattan-Moorgawa, Assoc Prof (Dr) A Murdan, Assoc Prof (Dr) Teeroovengadum

Doctoral School: Ms N. Appasamy, G.Baungally, Mrs V S Jhugaroo & Mrs V. Petit

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Assoc Prof (Dr) J Govinden Soulange

Prof (Dr) Y Jaufeerally Fakim

Assoc Prof (Dr)H Neetoo

Assoc Prof D Puchooa

Dr S Santchurn

Mr S Hardowar

Faculty of Engineering, University of Mauritius

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Assoc Prof (Dr) B Rajkumarsingh

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Dr S Pudaruth

Faculty of Law and Management, University of Mauritius

Dr R Bhattu-Babajee

Dr E Bindah

Dr O Bissoon

Assoc Prof (Dr) S Fauzel

Dr G Georgijevic

Dr N Gopy-Ramdhany

Dr P Gunesh

Assoc Prof (Dr) M Gungaphul

Dr C Hurnath

Assoc Prof (Dr) R Mahadew

Dr J Matadeen

Dr D Michel

Prof R Nunkoo

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