Graduate Modelling Camp Programme

Wednesday 10 January to Saturday 13 January 2024

Wednesday 10 January 2024	
8:00 – 9:00	**Registration** Venue: Mathematical Sciences Building, West Campus Loading presentations in New Commerce Building. Room 3
9:00 – 9:15	Official Opening and Welcome **Venue:** New Commerce Building, Room 3 **Chair:** Erick Mubai Welcome address: Professor Joel Moitsheki , Head, School of Computer Science and Applied Mathematics Organisation of the Modelling Camp
9:15 – 11:00	**Chair:** Eric Mubai Problem Presentations 20 minutes each presentation including questions • Mathematical modelling and optimization for efficient parking Matthews Sejeso • Platinum furnace Neville Fowkes • Numerical methods for solving singular integral equations with Cauchy-type kernels Mathibele Nchabeleng • Beam analysis Kendall Born • Mathematical modelling of wind turbines David Mason • Rogue waves Erich Mubai
11:00 – 11:30	**Morning tea** **Venue:** Common Room, Upper Ground (UG) Floor, Mathematical Sciences Building

11:30 – 13:00	Formation of Study Groups and room allocation Study Group meetings Students work under supervision
13:00 – 14:00	**Lunch** **Venue:** Common Room, UG Floor, Mathematical Science Building
14:00 – 15:30	Study Group meetings Students work under supervision
15:30 – 16:00	**Afternoon tea** **Venue:** Mathematical Sciences Common Room
16:00 – 17:00	Study Group meetings
17:00 – 18:00	**Dinner** **Venue:** Main Dining Hall, East Campus
18:30 – 21:00	Evening Session Study Group meetings
Thursday 11 January 2024	
8:30 – 9:30	Progress Reports (10 minutes each) **Venue:** New Commerce Building, Room 3 **Chair:** Neville Fowkes • Efficient parking • Platinum furnace • Singular integral equations • Beam analysis • Wind turbines • Rogue waves
9:30 – 11:00	Study Group meetings Planning the work for the day
11:00 – 11:30	**Morning tea** **Venue:** Mathematical Sciences Common Room
11:30 – 13:00	Study Group meetings
13:00 – 14:00	**Lunch** **Venue:** Mathematical Sciences Common Room
14:00 – 15:30	Study Group meetings
15:30 – 16:00	**Afternoon tea** **Venue:** Mathematical Sciences Common Room

16:00 – 17:00	Study Group meetings
17:00 – 18:00	**Dinner** **Venue:** Main Dining Hall. East Campus
18:30 – 21:00	Evening Session Study Group meetings
Friday 12 January 2024	
8:30 – 9:30	Progress Reports (10 minutes each) **Venue:** New Commerce Building Room 3 **Chair:** Matthews Sejeso • Efficient parking • Platinum furnace • Singular integral equations • Beam analysis • Wind turbines • Rogue waves
9:30 – 11:00	Study Group meetings Planning the work of the day
11:00 – 11:30	**Morning tea** **Venue:** Mathematical Sciences Common Room
11:30 – 13:00	Study Group meetings
13:00 –14:00	**Lunch** **Venue:** Mathematical Sciences Common Room
14:00 – 15:30	Study Group meetings
15:30 – 16:00	**Afternoon tea** **Venue:** Mathematical Sciences Common Room
16:00 – 17:00	Study Group meetings
17:00 – 18:00	**Dinner** **Venue:** Main Dining Hall, East Campus
18:30 – 21:00	Evening Session Study Group meetings
Saturday 13 January 2024	
8:30 – 9:00	Study Group meetings Planning the work of the day

9:00 – 11:00	Study Group meetings
11:00 – 11:30	**Morning tea** **Venue:** Mathematical Sciences Common Room
11:30 – 13:00	Study Group meetings Preparation of presentations
13:00 – 14:00	**Lunch** **Venue:** Mathematical Sciences Common Room
14:00 – 17:00	Formal presentation of results (30 minutes each) **Venue:** New Commerce Building, Room 3 **Chair:** Erick Mubai • Efficient parking • Platinum furnace • Singular integral equations • Beam analysis • Wind turbines • Rogue waves
17:00	**Closing:** David Mason
17:00 – 18:00	**Dinner** **Venue:** Main Dining Hall, East Campus
18:00	Free evening
Sunday 14 January 2024	
Free day	Arrival of MISG participants