Organisational Day – Sunday, 22nd September 2019

06:30 Arrival of German lecturers
12:00 Organisational meeting with GUtech staff

Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg, Head of Department of Public Law, with Focus on Environmental and Planning Law
Dr. Najah Al Mhanna, Head of Engineering Department - GUtech
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg, Department of Public Law, with Focus on Environmental and Planning Law

14:30 Final inspection of seminar rooms and presentation equipment
15:30 End of the organisational day

Day 1 – Monday, 23rd September 2019

09:30 Welcome address
Prof. Dr.-Ing. Michael Modigell, GUtech
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

09:45 Cooperation between GUtech and international universities in research and education
Prof. Dr.-Ing. Michael Modigell, GUtech

10:00 Introduction into Summer School objectives and programme
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg

10:30 Coffee Break

11:00 Introduction of the Summer School participants

Thematic Session 1: Introduction to Sustainable Development

11:30 Key Lecture 1: Introduction to the Concept and History of Sustainable Development
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

12:00 Lunch Break

14:00 Key Lecture 2: Sustainable Development in European Agenda
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

15:30 Coffee Break

16:00 Seminar: Sustainable Development in International Law and Policy
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

17:30 End of the day

Day 2 – Tuesday, 24th September 2019

09:30 Key Lecture 3: Goals, Targets and Indicators for Sustainable Development with a Special Focus on Renewable Energy
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

11:00 Coffee Break

11:30 Key Lecture 4: European Policy on Water Resources Protection
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

13:00 Lunch Break

Thematic Session 2: Introduction to Global Climate Change

14:00 Key Lecture 5: Global Climate Change and its Impacts
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg

15:30 Coffee Break

15:45 Key Lecture 6: Overview of Response Options to Global Climate Change

Day 3 – Wednesday, 25th September 2019

Thematic Session 3: Climate Change Response Strategies

09:30 Key Lecture 7: Climate Change Mitigation: Protection of Climate by Development of Renewable Energy in the EU and Germany
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

11:00 Coffee Break

11:30 Key Lecture 8: Integration of Climate Change Mitigation and Adaptation Issues into Land Use Planning
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

13:00 Lunch Break

14:00 Key Lecture 9: Strategies for Adaptation to Climate Change in the Agricultural Sector
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg

15:30 Coffee Break

15:45 Group Work and Discussion: Potential for Renewable Energy Development and Climate Protection Policy in Oman
Moderation: Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

17:30 Forum with Academic Staff of GUtech “Teaching about Sustainability in Engineering Study Programmes”

19:30 End of the day

Excursion Day – Thursday, 26th September 2019

07:00 Bus transfer to Jebel Shams

11:00 Field Lecture: Principles of Sustainable Land Use Planning
Prof. Dr. Elke Albrecht, BTU Cottbus-Senftenberg

12:30 Coffee Break

12:45 Guided tour to the Jebel Shams Mountain

19:30 Bus transfer to Muscat

Day 4 – Saturday, 28th September 2019

Thematic Session 4: Emerging Issues in Environmental Law

09:30 Key Lecture 10: Intellectual Property Rights (IPR) and Copyright in Environmental Data, Photographs, Texts and Maps
Prof. Dr. Winfried Bullinger, BTU Cottbus-Senftenberg

11:00 Coffee Break

11:30 Key Lecture 11: Protection of Environmental Information and Know-How in a Digital Context

Day 5 – Sunday, 29th September 2019

09:30 Key Lecture 13: Artificial Intelligence: Definitions, Ethical Principles and Guidelines
Prof. Dr. Marion Bernhardt, BTU Cottbus-Senftenberg

11:00 Coffee Break

11:30 Key Lecture 14: Artificial Intelligence and Liability
Prof. Dr. Marion Bernhardt, BTU Cottbus-Senftenberg

13:00 Lunch Break

14:00 Key Lecture 15: Artificial Intelligence in an Environmental Context
Prof. Dr. Winfried Bullinger, BTU Cottbus-Senftenberg

15:30 Coffee Break

15:45 Seminar: Protection of Content, Copyright and Artificial Intelligence
Prof. Dr. Winfried Bullinger, BTU Cottbus-Senftenberg

17:15 Case Study Discussion: Environmental Studies and Fake News
Prof. Dr. Marion Bernhardt, BTU Cottbus-Senftenberg

18:15 German cultural event

21:00 End of the day

Day 6 – Monday, 30th September 2019

Thematic Session 5: Environmental Assessment

09:30 Key Lecture 16: Importance of Environmental Assessment for Large Scale Irrigation Projects: Presentation of Case Studies
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg

11:00 Coffee Break

11:30 Key Lecture 17: Environmental Impact Assessment (Part 1): Promoting Sustainable Development at Project Level
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg

13:00 Lunch Break

14:00 Key Lecture 18: Environmental Impact Assessment (Part 2): Introduction to the EIA Procedure
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg

15:30 Coffee Break
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| 09:30 | Key Lecture 19: Methods for Identification of Impacts in EIA  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 11:00 | Coffee Break |
| 11:30 | Key Lecture 20: Irrigation and Water Scheduling in Agricultural Projects  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 13:00 | Lunch Break |
| 14:00 | Key Lecture 21: Introduction to Strategic Environmental Assessment (SEA) as a Tool for Sustainable Land Use Planning  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 15:30 | Coffee Break |
| 16:00 | Discussion: Impact Mitigation Strategies in Environmental Assessment  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 17:00 | Seminar: Strategies for Mitigation of Water Impacts  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 18:00 | End of the day |

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| 09:30 | Key Lecture 22: Improving Renewable Energy Planning through Strategic Environmental Assessment (SEA)  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 11:00 | Coffee Break |
| 11:30 | Role Playing Game: Gone with the Wind (Energy) – An Impact Assessment Strategy Game  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 13:00 | Lunch Break |
| **Thematic Session 6: Sustainable Management of Water Resources** |
| 14:00 | Key Lecture 23: Water Scarcity in the MENA Region  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 15:30 | Coffee Break |
| 15:45 | Key Lecture 24: Water Harvesting in the MENA Region  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 17:15 | Seminar: Water Resources Management Issues in Oman  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 18:45 | End of the day |

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| 09:30 | Key Lecture 25: Cropwat and Climawat for Irrigation Scheduling Calculation: Implementation and Usage  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 11:00 | Coffee Break |

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| 11:30 | Key Lecture 26: UN Sustainable Development Goals and Water  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 13:00 | Lunch Break |
| 14:00 | Key Lecture 27: Salinity Problem and Water Desalination  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 15:30 | Bus Transfer and Excursion to Al Ghubra Power & Desalination Company (GPDC) |
| 19:00 | End of the day |

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<th>Thematic Session 7: Voluntary Sustainability Standards (VSS)</th>
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| 09:30 | Key Lecture 28: Introduction to the Concept of VSS  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 11:00 | Coffee Break |
| 11:30 | Key Lecture 29: Examples of VSS in Various Sectors  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 13:00 | Lunch Break |
| 14:00 | Key Lecture 30: VSS for Climate Protection and Water Resources  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg |
| 15:30 | Coffee Break |
| 16:00 | Seminar: Potential for VSS in Oman  
Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 17:30 | End of the day |

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<th>Final Day – Saturday, 5th October 2019</th>
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| 10:00 | Results, conclusions and participants feedback  
Prof. Dr. Bachar Ibrahim and Dr. Dmitry Palekhov, BTU Cottbus-Senftenberg |
| 11:00 | Certificates awarding  
Prof. Dr. Bachar Ibrahim, BTU Cottbus-Senftenberg  
Dr. Najah Al Mhanna, GUtech |
| 12:00 | End of the Summer School |

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<tr>
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