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| **Course Title** | Zhejiang-SJINML Winter Camp 2025 |
| **Date** | 12-19 January 2025 |
| **Time** | - |
| **Participants** | Zhejiang University Marine/Ocean students |
| **Pax** | **To be advised (SJINML note: Budget estimated based on maximum 40 pax, including teachers and students)** |
| **Theme** | Current trends in marine science, biodiversity and conservation |

**Course Outline**

**Day 1: 12 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
| TBC | Arrival at Changi | Singapore main island | - |
| TBC | Transport to Accommodation (on Singapore main island) | Singapore main island | Transport from Changi Airport to Accommodation can be arranged at **additional cost** (i.e., currently not budgeted into current quote estimates). Alternatively, ZJU group to make their own way to Accommodation. See Annex for Accommodation options on main island of Singapore. |
| TBC | Programme by ZJU | Singapore main island | We advise shopping for food and other necessities for staying over at SJINML over the next few days (e.g., breakfast, lunch and dinner, other food and snacks) |
| TBC | End of Day 1 | - | - |

**Day 2: 13 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
| TBC | Check-out from mainland lodging Transport to Marina South Pier | Singapore main island | Transport from Accommodation to Marina South Pier can be arranged at additional cost. Alternatively, ZJU group can arrange to make own way to Marina South Pier via MRT. Suggest that ZJU group to buy/pack lunch to have on SJI (e.g., students to buy packed food from hawker centre or the Marina South Pier in the morning etc.). |
| 0930H | Departure from Marina South Pier  Arrival at St John’s Island Jetty Walk up to St John’s Island National Marine Lab (SJINML) | Marina South Pier | Ferry charter costs factored into the budget quoted. |
| 1015H | Arrival at SJINML; Check into Dormitories | SJINML Blk 1 |  |
| 1115H | Introduction to SJINML & Marine Science in Singapore; Q&A | SJINML Seminar Room |  |
| 1200H | LUNCH | SJINML Seminar Room | Suggest that ZJU group to buy/pack lunch to have on SJI (e.g., students to buy packed food from hawker centre or the Marina South Pier in the morning etc.). Alternatively, lunch can be catered at additional cost (i.e., currently not budgeted into current quote estimates) |
| 1300H | Marine Ecosystems: Surviving in a Sea of Change | SJINML Seminar Room | Researcher’s talk  Topics to be covered include coral reefs, seagrasses, climate change, marine heatwaves, sea warming, ocean acidification and coastal urbanization. |
| 1400H | BREAK | SJINML Seminar Room |  |
| 1430H | Marine Biodiversity in Singapore & beyond  SJINML Facility Tour | SJINML Teaching Lab / Facility Tour | Hands on session to explore various marine life including corals etc.  SJINML Facility tour (groups to be split into 2, swapping sessions at midpoint) |
| 1600H | Debrief of Day 1  Programme briefing & Preparation for Day 2 | SJINML Seminar Room |  |
| 1630H | End of Day 2 |  |  |
| 1700H | Prepare for Dinner |  |  |
| 1900H | DINNER | SJINML Kitchen / Seminar Room | ZJU Groups to prepare their own dinner at SJINML Kitchen; Seminar Room can also be used as dinner venue; BEDTIME – ZJU trainers to advice. |

**Day 3: 14 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
| 0730H | Breakfast | SJINML Kitchen / Seminar Room |  |
| 0830H | Beach cleanup & Island Recce | St John’s Island | To participate in a beach clean up  To familiarize with the coastal habitats of St John’s Island Complex |
| 1000H | Marine Plastics Pollution | SJINML Seminar Room | Researcher’s talk  Topics include marine litter problem in the local and global contexts, marine plastics research |
| 1100H | BREAK |  |  |
| 1230H | LUNCH |  | Catered lunch (costs budgeted in quote estimates) |
| 1330H | Introduction to Field Sampling and Survey for Research | SJINML Seminar Room | Researcher’s talk  Topics include field experimental design, field gear and equipment, and field safety. Students to be split into groups to ideate research question and conduct fieldwork. |
| 1500H | Group discussions & preparation for field sampling and survey exercise |  | Students to be split into groups to ideate research question and conduct fieldwork |
| 1630H | Low tide fieldwork | St John’s Island | To conduct field work to collect data for answering student’s chosen research question |
| 1830H | Return to SJINML  Debrief Day 3 |  |  |
| 1900H | DINNER | SJINML Kitchen / Seminar Room | Trainers/OE to assist with dinner preparation |

**Day 4: 15 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
| 0800H | Breakfast |  |  |
| 0900H | Introduction to Planktons and Harmful Algal Blooms |  | Topics include how plankton form harmful algal blooms, the impact of harmful algal blooms on the environment and the different types of plankton. |
| 1000H | Hands-on activity: Plankton Identification |  | To identify plankton under microscope and illustrate different types of plankton |
| 1100H | BREAK |  |  |
| 1115H | Grouped workshopping: Threats to marine environments |  | Facilitate discussions about various threats to marine environments To compare marine environmental issues in Singapore vs. China vs. elsewhere |
| 1230H | LUNCH |  | Catered lunch (costs budgeted in quote estimates) |
| 1330H | Group presentations on findings from field surveys |  | To present |
| 1500H | Reflections  End of programme |  |  |
| 1530H | Check out of Dorms |  |  |
| 1615H | Walk down to SJI jetty |  |  |
| 1630H | Depart from SJI |  | Ferry charter costs factored into the budget quoted. |
| 1700H | Arrival at MSP |  |  |
| 1700H | Travel to Accommodation |  | Transport from Marina South Pier to Accommodation can be arranged at additional cost. |

**Day 5: 16 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
| TBC | Travel to National University of Singapore (NUS) from accommodation |  |  |
| 0930H | Introduction to Tropical Marine Science Institute, National University of Singapore (Focus on Marine Technology R&D) | TMSI NUS | Tour of Tropical Marine Science Institute, NUS  Whole day bus transport rental for this day has been costed into the total estimated budget |
| 1130H | Travel to lunch venue |  | Free and easy lunch (e.g., West Coast Hawker Centre) |
| 1300H | End of lunch  Travel to Nanyang Technological University (NTU) |  |  |
| 1330H | Asian School of the Environment, Nanyang Technological University (Focus on Marine Environment)  OR  Lee Kong Chian Natural History Museum (Focus on Marine Biodiversity) |  | If your group chooses to explore Lee Kong Chian Natural History Museum, there will be additional costs that may need to be budgeted for entrance tickets (about $27 per pax) |
| 1600H | Travel back to Accommodation (before peak hour traffic) |  | Whole day bus transport rental for this day has been costed into the total estimated budget |
| 1700H | Return to Accommodation |  |  |

**Day 6: 17 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
|  | Free and easy day | Singapore main island | For shopping and sightseeing |

**Day 7: 18 January 2025**

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| **Time** | **Item** | **Venue** | **Remarks** |
| TBC | Check-out mainland lodging | Singapore main island |  |
| TBC | Transport to Changi Airport |  | Transport from accommodation to Changi Airport can be arranged at **additional cost** (i.e., currently not budgeted into current quote estimates). |
| TBC | Departure from Singapore |  |  |
| TBC | End of Trip |  |  |

**APPENDIX**

Mainland Accommodation choices for Zhejiang University Visit:

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| --- | --- | --- |
| **Accommodation** | **Rate per night** | **Remarks** |
| RELC International Hotel | Standard room (2 pax): 125 | Can be booked and paid via NUS corporate rate, and SJINML invoices ZJU |
| Beary Best! Hostel Chinatown | 37 – 42 per bed in dormitory rooms, with the option of separating by gender    2-bed single rooms available for teachers | Up to 48 beds available  Rooms have either 10, 8, or 6 beds each.  [Hostel website](https://www.dorms.com/youth-Hostel/Beary-Best-Hostel-Chinatown/BK577827/2025-01-12/1/35?ptype=hostel&pnum=BK577827&currency=SGD&city=true" \t "_blank)  ZJU to book directly with hostel |
| Atelier (Near Chinatown) | 65 – 70 per bed in dormitory rooms, with the option of separating by gender    2-bed single rooms available for teachers | Up to 35 beds available    Less beds    [Hostel website](https://www.dorms.com/youth-Hostel/Atelier/BK8506895/2025-01-12/1/35?ptype=hostel&pnum=BK8506895&currency=SGD&city=true" \t "_blank)  ZJU to book directly with hostel |