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| Northwest A&F University Summer School: July 15 - August5, 2018 - Engineering |
| **Dates** | **Activity and timings** |
| **15/7/18** | **Arrive Birmingham Airport. Transfer by coach to Harper Adams University.**  |
| 16/7/18 | 10-11am Welcome Meeting & administration 11-12.30 tour of campus 12.30-1.30 lunch in QMH 1.30 - 3.30 Newport orientation4pm - Health& Safety for Engineering  |
| 17/7/18 | 9.30-11.15 : Introducing yourself 11.30 -12.50: Listening & vocabulary | 12.30-1.30 lunch in QMH  | 2-5.30: Bridge building practical Greg Rowsell and Chris Waghorn.  |
| 18/7/18 | 9.30-11.15: Listening - Aspects of British Culture 11.30 -12.20: Shrewsbury Orientation | 12.30-1.30 lunch in QMH  |  **Trip to Shrewsbury - Coach leaves at 1.30pm- returns to HAU 6pm** |
| 19/7/18 | 9.30-11.15: English for Engineering  11.30 -12.50: Achievements in Engineering: reading & speaking  | 12.30-1.30 lunch in QMH  | 2-5.30: Introduction to robots:A talk covering robotic projects at Harper Adams, the technology, and a tour of the facilities with Sam Wane  |
| 20/7/18 | 9.30-11.15: Speaking activity based on HW 11.30 -12.50: Ironbridge orientation - listening  | 12.30-1.30 lunch in QMH  | 2-5.30: A practical introduction to the Arduino controller, how to program it and make lights, LCD, motors, switches work, and how to read the sensors (IMU, ultrasonic, compass)A lecture on the various components and interfaces with Sam Wane |
| **21/7/18** | **Trip to Birmingham- leaving at 9am and return to HAU at 7pm You will need money to buy lunch and dinner in Birmingham** |
| **22/7/18** | **Visit to Lavender farm, Blists Hill Victorian town museum, & Ironbridge. Leaving campus at 9.30am and leaving Ironbridge to return to HAU at 5pm. Campus supper at 6pm. You will need money to buy lunch.** |
| 23/7/18 | 9.30-11.15: vocab & pronunciation - forces & materials 11.30 -12.50: Listening to a lecture | 12.30-1.30 lunch in QMH  | 2-5.30: GPS technologyA demonstration of RTK GPS. How to read GPS in the robot, convert to UTM, and calculate distance & bearing. |
| 24/7/18 | 9.30-11.15: Speaking activity based on HW 11.30 -12.00: Computers in Engineering - reading | Packed lunch to collect | **Trip to JCB Engineering. Meet outside QMH - minibus leaves at 12.30pm** |
| 25/7/18 | 9.30-11.15:Vocab & describing processes - 'the future of cars'. 11.30 -12.50: Listening to a lecture - signposting | 12.30-1.30 lunch in QMH  | 2-5.30: Behaviours and states in robotsUsing the ultrasonic sensor to avoid objects.Using the IMU for feedback**Evening: Barbeque meet 6.30pm QMH** |
| 26/7/18 | 9.30-11.15: describing how something works - vocab & collocations. 11.30 -12.50: fixed phrases for clarifying information.  | 12.30-1.30 lunch in QMH  | 2-5.30: Off road vehicle traction Simon Cooper  |
| 27/7/18 | 9.30-11.15: Pronunciation 11.30 -12.50pm: Speaking skills and discussion | 12.30-1.30 lunch in QMH  | 2-5.30: Putting it togetherStudents test their robots with sensors and assess how they can use incorporated behaviours. |
| 28/7/18 | **Wild Woodland session with outdoor activities. Meet outside QMH at 10am. Return to HAU at 9pm****Lunch and evening meal provided** |
| 29/7/18 | **Visit to Chirk Castle and Poncysyllte Aqueduct – Meet outside QMH at 10am. Return to HAU at 5pm****Bring money for lunch. Evening meal at 6pm.** |
| 30/7/18 | 9.30-12.30Students prepare for final presentations  | 12.30-1.30 lunch in QMH  | 2-5.30pm Driving Experience - meet at Engineering Building  |
| 31/7/18 | 9.30-12.30Students prepare for final presentations | 12.30-1.30 lunch in QMH  | 2-5.30: A fun competition for the students to show what they can do. |
| 1/8/18 | 9.30-11.15: Student presentations 11.30 - 1pm: An introduction to HAU MSc programmes | 12.30-1.30 lunch in QMH  | 2-5.30: Drainage, irrigation and soil conservation. Paula Misiewicz. **Evening: Final course dinner (meet at 6.15 - dress smart casual).** |
| 2/8/17 | **Breakfast at 7.30am - Coach departs HAU at 8.30am for Oxford/Bicester/London** |
| 3/8/18 | **Full day sightseeing in London** |
| 4/8/18 | **Visit to Windsor Castle****Depart Heathrow Airport evening** |
| 5/8/18 | **Return to NWA&FU** |