**Project Team: Team 6**

**MXB328 Weekly Project and Meeting Notes**

**Project Team:** Annabel Mclean (AM), Laura Davis-Poynter (LD), Olivia Ryan-McInally (OR),

Zander Hook (ZH)

**Client Team:** James Dowdeswell (JD), Steve Psaltis (SP), Ian Turner (IT), Richard Sargeant (RS)

|  |  |  |
| --- | --- | --- |
| **Week 1**  In week one we were introduced to our project and our client team. We also formed our groups this was easy for us as we had worked together last year so were able to join up again to work together. This week we were also able to come to classes in person. | | |
| Workshop Attendees: | AM, LD, OR, ZH | |
| **Item** | **Comments** | **Action By / Due** |
| Form Group | Worked together well in semester one on the group project for MXB326 so decided to work together again. |  |
| Consultation | Went through the project description and outlined our industry partner as well as other introductory information to this unit. |  |
| Register in InPlace | All members to apply for WIL through Blackboard InPlace. | ALL / Before Week 4 |
| **AM Individual Work Log:** Hours worked on project this week = 2 | | |
| * Attended consultation | | |
| **LD Individual Work Log:** Hours worked on project this week = 2 | | |
| * Attended consultation | | |
| **OR Individual Work Log:** Hours worked on project this week = 2 | | |
| * Attended consultation | | |
| **ZH Individual Work Log:** Hours worked on project this week = 2 | | |
| * Attended consultation | | |

|  |  |  |
| --- | --- | --- |
| **Week 2**  In week two we were in lockdown for a week and so couldn’t come into university to participate in classes, instead these classes were run online. This included a guest lecture delivered by the Student Success Group (SSG) which covered team communication and how to effectively interactive and communicate with our group on this project. This was led by Rea Turner, Rosaria Kiely and Nikki Penhaligon and included a talk and Q&A from mathematics alumnus Luke Ginn. Luke talked about his career and offered advice internships, our study, and our careers. The workshop with Ian was also run over zoom this time where he went over all aspects of the drafted project description and mentioned that our final project description will be released soon once signed off by James. | | |
| Workshop Attendees: | AM, LD, OR, ZH | |
| **Item** | **Comments** | **Action By / Due** |
| Workshop (*Online due to COVID)* | Ian went through in depth each section of the draft of the project task sheet and allowed for any questions regarding the initial project description. |  |
| Guest lecture on teamwork and communication | Interacted with peers and discussed the importance of communication and teamwork. |  |
| **AM Individual Work Log:** Hours worked on project this week = 4 | | |
| * Attended workshop * Attended lecture | | |
| **LD Individual Work Log:** Hours worked on project this week = 4 | | |
| * Attended workshop * Attended lecture | | |
| **OR Individual Work Log:** Hours worked on project this week = 4 | | |
| * Attended workshop * Attended lecture | | |
| **ZH Individual Work Log:** Hours worked on project this week = 4 | | |
| * Attended workshop * Attended lecture | | |

|  |  |  |
| --- | --- | --- |
| **Week 3**  In week three we were still online for the first half of this week so our workshop and consultations as well as guest lecture were all via Zoom or MS Teams. This week our group met before our consultation with Ian to prepare any questions that we had so that we were ready for our 20-minute consult. We also discussed the rain data and decided that we would pick a station near our allocated area Mackay MO but chose ‘Alert’ at station ‘033303’ as this was closer to a creek so would give more accurate data tailored towards our project. | | |
| Workshop Attendees: | AM, LD, OR, ZH | |
| **Item** | **Comments** | **Action By / Due** |
| All group members to watch lectures |  | ALL / Before end of week 5 |
| Meeting 12 pm – 1 pm (10/8) | Prepare questions for Ian on content so far.  Analyse rain data. | ALL  OR |
| Workshop | 20-minute consult with Ian  Spent remaining time:   * Choosing a location in Mackay MO area near creek/river for more accurate rain data * Preliminary analysis of rain data | ALL |
| Guest speaker lecture: JD from GHD | James went through the background on ground water and his experience in what he does with GHD. | ALL |
| Guest speaker lecture: RS on project planning | Richard discussed with us how to project plan and the importance of managing our team to stay on top of tasks. | ALL |
| **AM Individual Work Log:** Hours worked on project this week = 7 | | |
| * Attend meeting (2 hours) * Attend workshop (2 hours) * Attend lecture 1 (2 hours) * Attend lecture 2 (2 hours) | | |
| **LD Individual Work Log:** Hours worked on project this week = 10 | | |
| * Section 2.6: solve for transformed concentration (3 hours) * Attend meeting (2 hours) * Attend workshop (2 hours) * Attend lecture 1 (2 hours) * Attend lecture 2 (2 hours) | | |
| **OR Individual Work Log:** Hours worked on project this week = 10 | | |
| * Section 2.6: solve for transformed concentration (3 hours) * Attend meeting (2 hours) * Attend workshop (2 hours) * Attend lecture 1 (2 hours) * Attend lecture 2 (2 hours) | | |
| **ZH Individual Work Log:** Hours worked on project this week = 7 | | |
| * Attend meeting (2 hours) * Attend workshop (2 hours) * Attend lecture 1 (2 hours) * Attend lecture 2 (2 hours) | | |

|  |  |  |
| --- | --- | --- |
| **Week 4**  In week 4 we attended a workshop run by RS this outlined how to effectively use Microsoft Project and how to correctly put together a plan for this assignment. Including details on how to use the functions to create a project schedule, identify the critical path, customise the appearance of the plan, assign people and resources to various roles/tasks as well as set up baselines and assess the impact of changing the schedule. Using the case study example, we could see how an early start, or a late start would affect the progress of the project. RS also detailed how to measure actual progress and talked about considering the application of different scheduling tactics. Following this workshop with RS we went to our consultation with IT where he answered various questions about the discretisation and mesh generation for our project. At our meeting on Friday, we created a basic mesh and started to work on the discretisation. We felt that we were struggling applying our one-dimensional discretisation knowledge from MXB326 to the two-dimensional discretisation needed so we reached out to IT for help and further clarification. Using this knowledge, we were able to complete homogenous discretisation. | | |
| Workshop Attendees: AM, LD, OR, ZH | | |
| **Item** | **Comments** | **Action By / Due** |
| Workshop | Introduction to Project with RS | ALL |
| Consultation | IT talked about how to approach this problem and allowed time for all of us to ask him questions about how we are going. | ALL |
| Guest Lecture | Lecture on the upcoming VRES applications for end of this year. | ALL |
| FVM Lectures | All group members completed watching these lectures | All members / Done |
| Heterogeneity Lectures | All group members completed watching these lectures | All members / Done |
| Group Meeting | Work on mesh generation and discretisation of problem | ALL |
| Meeting with Ian | Dropped in from 12 pm – 1 pm with IT to discuss the lecture content further and to get clarification on how to discretise the problem. For a simplified bucket solution with constant rainfall. | ALL |
| **AM Individual Work Log:** Hours worked on project this week = 4 | | |
| * Attended workshop with RS * Attended consultation with IT | | |
| **LD Individual Work Log:** Hours worked on project this week = 9 | | |
| * Attended workshop with RS * Attended consultation with IT * Meeting Friday: Mesh generation and discretisation | | |
| **OR Individual Work Log:** Hours worked on project this week = 8 | | |
| * Attended workshop with RS * Attended consultation with IT * Meeting Friday: Mesh generation and discretisation | | |
| **ZH Individual Work Log:** Hours worked on project this week = 9 | | |
| * Attended workshop with RS * Attended consultation with IT * Meeting Friday: Mesh generation and discretisation | | |