

# MS804: Systems Development & Project Management MS805: Database Systems

## Joint Intermodule Assignment: Data and Process Modelling

The submission deadline for the initial draft of this assignment is 17:00, Monday, October 17, 2022.

The deadline for peer evaluations is 17:00, Friday October 21, 2022.

The submission deadline for the finalised assignment is 17:00, Thursday, October 27, 2022.

- Students who are taking modules MS804 and MS805 must complete both sections of this assignment.
- Students taking module MS804 but not MS805 are required to complete Section A only.
- Students taking module MS805 but not MS804 are required to complete Section B only.

This assignment is based on the Teton Whitewater Kayak case (available on Blackboard) You must work with your assigned group, as listed at end of this document. Please carefully read the submission requirements and instructions.

### Section A: Process Modelling (30% of overall marks for MS804)

For the Teton Whitewater Kayak case study, you are required to:

- 1 Create a Functional Decomposition Diagram (FDD) showing the hierarchy of all processes in the system
- 2 Create a context-level Data Flow Diagram (DFD) and systems-level Data Flow Diagram (DFD)
- 3 Create one other DFD at the level below the systems-level diagram
- 4 Create a UML Use Case diagram for any of the main processes within the system
- 5 Create a UML Activity, Sequence Diagram or State Machine Diagram for any of the processes within the system

Clearly state any assumptions that you make. You are required to compare and contrast your solution with other groups (see section of this document titled "Peer-Assisted Learning").

Diagrams may be created using any suitable tool (e.g. LucidChart, Visio, SmartDraw) or neatly hand-drawn scanned images.

#### Section B: Data Modelling (30% of overall marks for MS805)

For the Teton Whitewater Kayak case study, you are required to:

- 1 Create a logical Entity-Relationship Model (ERM). You may use any of the common diagramming notations (e.g. Crow's foot, UML, etc.)
  - Optionally, you may also wish to produce a CRUD Process/Entity Matrix showing how the primitive processes from the FDD created in Section A map onto the entities in your ERM.
- 2 Transform this logical ERM into a fully normalized relational database schema i.e. showing tables, primary keys, foreign keys, and join tables derived from associative entities (many-to-many relationships). For each table, explain why you are satisfied that the requirements of first, second and third normal form are satisfied.
- 3 Provide the CREATE TABLE statements required to build this database in SQL. For each table, you must specify field data types, primary and foreign keys, as well as required values, unique values and any other applicable data integrity validation constraints.

Clearly state any assumptions that you make. You are required to compare and contrast your solution with other groups (see section of this document titled "Peer-Assisted Learning").

Diagrams may be created using any suitable tool (e.g. LucidChart, Visio, SmartDraw) or neatly hand-drawn scanned images.

#### **Peer-Assisted Learning**

After you have submitted the initial draft of your assignment, you must compare and contrast your work with peer groups. See the list of assigned peer groups at the end of this document.

You are not permitted to communicate with your peer groups prior to submission of the initial draft. After submission of the initial draft (October 15), you may change aspects of it in response to feedback received from your peers, or comparison of your proposed solutions with those of your assigned peer groups.

Any changes that you make between the initial draft and final submission must be fully explained, clearly stating the reasons for making changes. The final submission is due one week after the initial draft.

It is the responsibility of each group leader to make contact with other groups for the purposes of peer assisted learning. You must forward a copy of your initial draft (as a single combined PDF document) to the members of your 1st and 2nd peer groups no later than October 17.

Note that each group will give their solutions to two groups and will also receive solutions from two groups i.e., each group will see the work of four other groups.

All groups are expected to provide feedback to their peers in relation to the two solutions that they receive i.e., a document of 1-2 pages containing short bullets on points of disagreement.

#### **Submission Requirements and Instructions**

The leader of each group is responsible for submitting the assignment via Turnitin in Blackboard (see link under Assignment menu in Blackboard modules MS804 and MS805).

The submission must be a single combined Microsoft Word or PDF document containing the following:

- A fully completed Assignment Submission Form attached to its front (available on Blackboard). Ensure that the Assignment Submission Form also specifies the Group Number.
- A table of contents with section headers and page numbers.
- All of the required diagrams and deliverables, with section headings numbered A1, A2, A3, A4, A5, B1, B2, B3 as per the requirements provided in Section A and Section B. Under each section, clearly state any assumptions that you make.
- A copy of the feedback points that you received from your peer groups (include group numbers and date feedback received).
- An explanation of any changes you made to your initial draft when preparing the finalised submission. Explain how you chose to respond to the feedback that you received.
- A 200-500 word statement by each group member reflecting on your positive and/or negative experiences of peer-assisted learning on this assignment i.e. how working with students in your own group assisted you, and how feedback obtained from other groups influenced your thinking.
- A list of all sources that were consulted in the preparation of this assignment e.g. books, journals, Web sites etc.

Students are required to retain a safe backup copy of their assignment as a precaution against accidental loss or damage. Failure to do so may result in the award of a zero mark if the submission is mislaid or not received.

### **Inter-module Assignment Groups 2022-23**

If there are any changes to the list below because of late registrations or withdrawals, please notify your lecturers.

You must work within your assigned group. Each group must appoint a leader who shall take responsibility for the submission to Turnitin and communicating with peer groups.

| Last Name      | First Name        | e-mail                        | MS805 | MS804 | Group |
|----------------|-------------------|-------------------------------|-------|-------|-------|
|                | SHAAHID ALTAF     |                               |       |       |       |
| BARODAWALA     | HUSEIN            | s.barodawala1@nuigalway.ie    | 1     | 1     | 1     |
| Sinha          | Sagardeep         | s.sinha7@nuigalway.ie         | 1     | 1     | 1     |
| Pranava        | Udayagiri         | u.pranava1@nuigalway.ie       | 1     | 1     | 1     |
| Thakur         | Julie Vishwakarma | J.Thakur1@nuigalway.ie        | 1     | 1     | 2     |
|                | PRATHAMESH        |                               |       |       |       |
| PATIL          | DEEPAK            | P.PATIL7@nuigalway.ie         | 1     | 1     | 2     |
| Pande          | Sharad Milind     | S.Pande4@nuigalway.ie         | 1     | 1     | 2     |
| Pattnayak      | Abhijeet          | A.Pattnayak2@nuigalway.ie     | 1     | 1     | 3     |
|                |                   | P.Gopalakrishnan1@nuigalway.i |       |       |       |
| Gopalakrishnan | Prem Sujith       | e                             | 1     | 1     | 3     |
|                | Sonalben          |                               |       |       |       |
| Panchal        | Maheshkumar       | S.Panchal3@nuigalway.ie       | 1     | 1     | 3     |
| NI NEACHTAIN   | AINE              | a.naughton9@nuigalway.ie      | 1     | 1     | 4     |

| .         Vaibhav         v.vaibhav1@nuigalway.ie         1         1         4           Dwivedy         Anshuman         A. Dwivedy1@nuigalway.ie         1         1         5           Kumar         Abhishek         A. Kumar10@nuigalway.ie         1         1         5           Desai         Siddhi Pragnesh         S.Desai1@nuigalway.ie         1         1         5           Sonimindia         Laxmi Vinod         L. Sonimindia1@nuigalway.ie         1         1         6           Doddapakheerap pa Rajappa         Shweta         @nuigalway.ie         1         1         6           Pawar         Sahil Vinod         S.Pawar2@nuigalway.ie         1         1         6           Aggarwal         Sejal         S.Aggarwal3@nuigalway.ie         1         1         7           Albon         Alam Melvin         A.Albon1@nuigalway.ie         1         1         7           Albon         Alam Melvin         A.Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Nu Th  | Rai            | Gaurav Sudarshan | g.rai2@nuigalway.ie                   | 1 | 1 | 4  |
|---|----------------|------------------|---------------------------------------|---|---|----|
| Kumar         Abhishek         A.Kumar10@nuigalway.ie         1         1         5           Desai         Siddhi Pragnesh         S.Desai1@nuigalway.ie         1         1         5           Sonimindia         Laxmi Vinod         L.Sonimindia1@nuigalway.ie         1         1         1         6           Doddapakheerap Pa Rajappa         Shweta         @nuigalway.ie         1         1         6           Pawar         Sahil Vinod         S.Pawar2@nuigalway.ie         1         1         6           Aggarwal         Sejal         S.Pawar2@nuigalway.ie         1         1         7           Hu         Xuelian         X.Hu5@nuigalway.ie         1         1         7           Hu         Xuelian         X.Hu5@nuigalway.ie         1         1         7           Albon         Alan Melvin         A.Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           OLOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Apte  |                | Vaibhav          | v.vaibhav1@nuigalway.ie               | 1 | 1 | 4  |
| Desai   Siddhi Pragnesh   S.Desai1@nuigalway.ie   1   1   5   5   5   5   5   5   5   5   | Dwivedy        | Anshuman         | A.Dwivedy1@nuigalway.ie               | 1 | 1 | 5  |
| Sonimindia  | Kumar          | Abhishek         | A.Kumar10@nuigalway.ie                | 1 | 1 | 5  |
| Sonimindia  | Desai          | Siddhi Pragnesh  | S.Desai1@nuigalway.ie                 | 1 | 1 | 5  |
| Doddapakheerap pa Rajapapa   Shweta   | Sonimindia     | -                |                                       | 1 | 1 | 6  |
| Pawar         Sahil Vinod         S.Pawar2@nuigalway.ie         1         1         6           Aggarwal         Sejal         S.Aggarwal3@nuigalway.ie         1         1         7           Raja         Vigneshwaran         V.Raja2@nuigalway.ie         1         1         7           Hu         X. Vuelian         X.Hu5@nuigalway.ie         1         1         7           Albon         Albon Albon1@nuigalway.ie         1         1         7           Albon         Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           Kothari         Sajal         S.Kothari1@nuigalway.ie         1         1         8           OLONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         1         9           Mu Thway         Wah Wah         w.nuthway1@nuigalway.ie<  | Doddapakheerap |                  |                                       |   |   |    |
| Aggarwal         Sejal         S.Aggarwal 3@nuigalway.ie         1         1         7           Raja         Vigneshwaran         V.Raja2@nuigalway.ie         1         1         7           Hu         Xuelian         X.Hu5@nuigalway.ie         1         1         7           Albon         Alan Melvin         A.Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.clooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.malavalliChandrashekara1@n         Uigalway.ie         1         1         1         1           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         1         1   | pa Rajappa     | Shweta           | @nuigalway.ie                         | 1 | 1 | 6  |
| Raja         Vigneshwaran         V.Raja2@nuigalway.ie         1         1         7           Hu         Xuelian         X.Hu5@nuigalway.ie         1         1         7           Albon         Alan Melvin         A.Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.ImalavalliChandrashekara1@n         uigalway.ie         1         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         1         1         1         1         1         1         1         1         1         1         1         1  | Pawar          | Sahil Vinod      | S.Pawar2@nuigalway.ie                 | 1 | 1 | 6  |
| Hu         Xuelian         X.Hu5@nuigalway.ie         1         1         7           Albon         Alan Melvin         A.Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           Kothari         Sajal         S.Kothari1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Anuty         Malavalli         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         1           Chadrashekara         Girish         uigalway.ie         1         1         1         1         1           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         <   | Aggarwal       | Sejal            | S.Aggarwal3@nuigalway.ie              | 1 | 1 | 7  |
| Albon         Alan Melvin         A.Albon1@nuigalway.ie         1         1         8           Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           Kothari         Sajal         S.Kothari1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         1         1         1           Anuja         A.Apte1@nuigalway.ie         1   | Raja           | Vigneshwaran     | V.Raja2@nuigalway.ie                  | 1 | 1 | 7  |
| Gomes         Anoushka         A.Gomes1@nuigalway.ie         1         1         8           Kothari         Sajal         S.Kothari1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         1         0           Apte         Anuja         A.Apte1@nuigalway.ie         1   | Hu             | Xuelian          | X.Hu5@nuigalway.ie                    | 1 | 1 | 7  |
| Kothari         Sajal         S.Kothari1@nuigalway.ie         1         1         8           O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.MalavalliChandrashekara1@n         uigalway.ie         1         1         10           Chandrashekara         Girish         uigalway.ie         1         1         10           Kelkar         Rajat Rajendra         K.Kelkar1@nuigalway.ie         1         1         1           Kelkar         Rajat Rajendra         s.Kelkar1@nuigalway.ie         1         1         1           KUMARI         JYOTI         j.kumari1@nuigalway.ie         1         1         1         1           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         1         1           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         1 <t< td=""><td>Albon</td><td>Alan Melvin</td><td>A.Albon1@nuigalway.ie</td><td>1</td><td>1</td><td>8</td></t<> | Albon          | Alan Melvin      | A.Albon1@nuigalway.ie                 | 1 | 1 | 8  |
| O LOONEY         AOIFE         a.olooney2@nuigalway.ie         1         1         9           Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.MalavalliChandrashekara1@n         1         1         10           Chandrashekara         Girish         uigalway.ie         1         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         10           KUMARI         JYOTI         j.kumari1@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DeVERY         SHAUNA   | Gomes          | Anoushka         | A.Gomes1@nuigalway.ie                 | 1 | 1 | 8  |
| Dmonty         Jess         j.dmonty1@nuigalway.ie         1         1         9           Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.MalavalliChandrashekara1@n         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         10           KUMARI         JYOTI         j.kumari1@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         11           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish </td <td>Kothari</td> <td>Sajal</td> <td>S.Kothari1@nuigalway.ie</td> <td>1</td> <td>1</td> <td>8</td>  | Kothari        | Sajal            | S.Kothari1@nuigalway.ie               | 1 | 1 | 8  |
| Nu Thway         Wah Wah         w.nuthway1@nuigalway.ie         1         1         9           Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.MalavalliChandrashekara1@n         Uigalway.ie         1         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         1         10           KUMARI         JYOTI         J.kumari1@nuigalway.ie         1         1         11         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11         11         12           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1<  | O LOONEY       | AOIFE            | a.olooney2@nuigalway.ie               | 1 | 1 | 9  |
| Apte         Anuja         A.Apte1@nuigalway.ie         1         1         10           Malavalli         G.MalavalliChandrashekara1@n         uigalway.ie         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         10           KUMARI         JYOTI         j.kumari1@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowr   | Dmonty         | Jess             | j.dmonty1@nuigalway.ie                | 1 | 1 | 9  |
| Malavalli<br>Chandrashekara         G.MalavalliChandrashekara1@n<br>uigalway.ie         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         10           KUMARI         JYOTI         J.kumari1@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14   | Nu Thway       | Wah Wah          | w.nuthway1@nuigalway.ie               | 1 | 1 | 9  |
| Malavalli<br>Chandrashekara         G.MalavalliChandrashekara1@n<br>uigalway.ie         1         1         10           Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         10           KUMARI         JYOTI         J.kumari1@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14   |                | Anuja            | A.Apte1@nuigalway.ie                  | 1 | 1 | 10 |
| Kelkar         Rajat Rajendra         R.Kelkar1@nuigalway.ie         1         1         10           KUMARI         JYOTI         j.kumari1@nuigalway.ie         1         1         11           CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           <   | Malavalli      |                  |                                       |   |   |    |
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| CONNEELY         PAUL         p.conneely5@nuigalway.ie         1         1         11           Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho   | Kelkar         | Rajat Rajendra   | R.Kelkar1@nuigalway.ie                | 1 | 1 | 10 |
| Parab         Sakshi Rajendra         s.parab1@nuigalway.ie         1         1         11           Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         S.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho         Kenny         K.Bracho1@nuigalway.ie         1         1         15           Ghate   | KUMARI         | JYOTI            | j.kumari1@nuigalway.ie                | 1 | 1 | 11 |
| Saini         Nishank         N.Saini4@nuigalway.ie         1         1         12           DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho         Kenny         K.Bracho1@nuigalway.ie         1         1         15           Mahajan         Srujan         S.Mahajan3@nuigalway.ie         1         1         15           Ghate         <  | CONNEELY       | PAUL             | p.conneely5@nuigalway.ie              | 1 | 1 | 11 |
| DEVERY         SHAUNA         S.DEVERY1@nuigalway.ie         1         1         12           Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho         Kenny         K.Bracho1@nuigalway.ie         1         1         15           Mahajan         Srujan         S.Mahajan3@nuigalway.ie         1         1         15           Ghate         Ajinkya Ashok         A.Ghate1@nuigalway.ie         1         1         16           Jain   | Parab          | Sakshi Rajendra  | s.parab1@nuigalway.ie                 | 1 | 1 | 11 |
| Ukey         Swapnil Haripal         S.Ukey1@nuigalway.ie         1         1         12           CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho         Kenny         K.Bracho1@nuigalway.ie         1         1         15           Mahajan         Srujan         S.Mahajan3@nuigalway.ie         1         1         15           Ghate         Ajinkya Ashok         A.Ghate1@nuigalway.ie         1         1         16           Jain         Anushka         A.Jain4@nuigalway.ie         1         1         1         16 <t< td=""><td>Saini</td><td>Nishank</td><td>N.Saini4@nuigalway.ie</td><td>1</td><td>1</td><td>12</td></t<>              | Saini          | Nishank          | N.Saini4@nuigalway.ie                 | 1 | 1 | 12 |
| CHATTERJEE         CHIRANTAN         C.CHATTERJEE2@nuigalway.ie         1         1         13           Sankar         Harish         H.Sankar1@nuigalway.ie         1         1         1         13           Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho         Kenny         K.Bracho1@nuigalway.ie         1         1         15           Mahajan         Srujan         S.Mahajan3@nuigalway.ie         1         1         1         15           Ghate         Ajinkya Ashok         A.Ghate1@nuigalway.ie         1         1         16           Jain         Anushka         A.Jain4@nuigalway.ie         1         1         1           M         Pooja         P.M47@nuigalway.ie         1         1         1         1 <td>DEVERY</td> <td>SHAUNA</td> <td>S.DEVERY1@nuigalway.ie</td> <td>1</td> <td>1</td> <td>12</td>                    | DEVERY         | SHAUNA           | S.DEVERY1@nuigalway.ie                | 1 | 1 | 12 |
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| Gowrachari         Sowmya         S.Gowrachari1@nuigalway.ie         1         1         13           Behera         Sourav         s.behera2@nuigalway.ie         1         1         14           Korlekar         Saloni         s.korlekar1@nuigalway.ie         1         1         14           Deng         Xingwei         x.deng3@nuigalway.ie         1         1         14           Dutta         Aditya         A.Dutta2@nuigalway.ie         1         1         15           Bracho         Kenny         K.Bracho1@nuigalway.ie         1         1         15           Mahajan         Srujan         S.Mahajan3@nuigalway.ie         1         1         15           Ghate         Ajinkya Ashok         A.Ghate1@nuigalway.ie         1         1         16           Jain         Anushka         A.Jain4@nuigalway.ie         1         1         1         16           M         Pooja         P.M47@nuigalway.ie         1         1         1         16           Bhuvaneshwaran         Saravana Muthu         .ie         1         1         1         17  | CHATTERJEE     | CHIRANTAN        | C.CHATTERJEE2@nuigalway.ie            | 1 | 1 | 13 |
| BeheraSouravs.behera2@nuigalway.ie1114KorlekarSalonis.korlekar1@nuigalway.ie1114DengXingweix.deng3@nuigalway.ie1114DuttaAdityaA.Dutta2@nuigalway.ie1115BrachoKennyK.Bracho1@nuigalway.ie1115MahajanSrujanS.Mahajan3@nuigalway.ie1115GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116BhuvaneshwaranSaravana Muthu.ie1117   | Sankar         | Harish           | H.Sankar1@nuigalway.ie                | 1 | 1 | 13 |
| KorlekarSalonis.korlekar1@nuigalway.ie1114DengXingweix.deng3@nuigalway.ie1114DuttaAdityaA.Dutta2@nuigalway.ie1115BrachoKennyK.Bracho1@nuigalway.ie1115MahajanSrujanS.Mahajan3@nuigalway.ie1115GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116s.bhuvaneshwaran1@nuigalway1117   | Gowrachari     | Sowmya           | S.Gowrachari1@nuigalway.ie            | 1 | 1 | 13 |
| DengXingweix.deng3@nuigalway.ie1114DuttaAdityaA.Dutta2@nuigalway.ie1115BrachoKennyK.Bracho1@nuigalway.ie1115MahajanSrujanS.Mahajan3@nuigalway.ie1115GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116S.bhuvaneshwaran1@nuigalway.ie1117  | Behera         | Sourav           | s.behera2@nuigalway.ie                | 1 | 1 | 14 |
| DuttaAdityaA.Dutta2@nuigalway.ie1115BrachoKennyK.Bracho1@nuigalway.ie1115MahajanSrujanS.Mahajan3@nuigalway.ie1115GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116S.bhuvaneshwaran1@nuigalway.ie1117   | Korlekar       | Saloni           | s.korlekar1@nuigalway.ie              | 1 | 1 | 14 |
| DuttaAdityaA.Dutta2@nuigalway.ie1115BrachoKennyK.Bracho1@nuigalway.ie1115MahajanSrujanS.Mahajan3@nuigalway.ie1115GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116S.bhuvaneshwaran1@nuigalway.ie1117   | Deng           | Xingwei          | x.deng3@nuigalway.ie                  | 1 | 1 | 14 |
| BrachoKennyK.Bracho1@nuigalway.ie1115MahajanSrujanS.Mahajan3@nuigalway.ie1115GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116S.bhuvaneshwaran1@nuigalway.ie1117   | Dutta          | Aditya           |                                       | 1 | 1 | 15 |
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| GhateAjinkya AshokA.Ghate1@nuigalway.ie1116JainAnushkaA.Jain4@nuigalway.ie1116MPoojaP.M47@nuigalway.ie1116S.bhuvaneshwaran1@nuigalway<br>.ie.ie1117   | Mahajan        |                  | · ·                                   | 1 | 1 |    |
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### **Peer Assessment**

The leader of the group listed in the first column below must forward a copy of your initial draft (as a combined PDF document) to the members of your 1st and 2nd peer groups no later than October 17, 2022.

The groups listed in the second and third columns below must provide feedback to the group listed in the first column no later than October 21, 2022.

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|--------------|----------------|-----------------------|
| Group number | Number         | 2nd Peer Group Number |
| 1            | 76             | 8                     |
| 2            | 4              | 76                    |
| 3            | 5              | 1                     |
| 4            | 6              | 2                     |
| 5            | 7              | 3                     |
| 6            | 8              | 12                    |
| 7            | 9              | 13                    |
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| 75 | 2  | 5  |
| 76 | 3  | 6  |