

# COURSE DELIVERY PLAN 2023

## Bachelor of Data Science

COURSE CODE: NBDS

|                            |   |
|----------------------------|---|
| <b>CAMPUS</b>              | Footscray Park (FP)   |
| <b>COLLEGE</b>             | College of Engineering and Science  |
| <b>STUDY MODE</b>          | Full Time or Part Time  |
| <b>DURATION</b>            | 3 years Full Time or Part Time equivalent   |
| <b>FEE TYPE</b>            | For information on course fees, refer to <a href="http://vu.edu.au/fees">http://vu.edu.au/fees</a>  |
| <b>APPLICATION METHOD</b>  | VTAC - <a href="https://vtac.edu.au">https://vtac.edu.au</a><br>Direct Application - <a href="https://gotovu.custhelp.com/app/landing">https://gotovu.custhelp.com/app/landing</a>  |
| <b>TIMETABLE</b>           | <a href="http://vu.edu.au/timetables">vu.edu.au/timetables</a>  |
| <b>COURSE REQUIREMENTS</b> | To attain the award of Bachelor of Data Science students will be required to complete <ul style="list-style-type: none"><li>• 288 credit points of core units.</li></ul>  |
| <b>FURTHER INFORMATION</b> | Unit and course information is available from the University course search site at <a href="http://vu.edu.au/course-search">http://vu.edu.au/course-search</a> or go to <a href="https://askvu.vu.edu.au">https://askvu.vu.edu.au</a> or Phone VUHQ on 03 9919 6100 |
| <b>COURSE CHAIR</b>        | Hongen Lu   |
| <b>COURSE ADVICE</b>       | AskVU <a href="https://askvu.vu.edu.au/app/askcua">https://askvu.vu.edu.au/app/askcua</a>   |

**Note:** Students are required to enrol in all units for semester 1 and 2, and are not permitted to enrol in more than 48 credit points per semester as a full-time load.

**Core/Elective** Core (a unit that must be completed) & Elective (you have some choice in what you select).

**Prerequisites** A number of units within the degree have 'prerequisites'. These prerequisites must be met before enrolment in the unit is permitted. Generally these prerequisites require the successful completion of a unit or units taken at an earlier stage in the course. Students should pay particular attention to these prerequisite requirements as failure to meet these can seriously hinder progression through the course.

**Date of Publication:** This information is current at the publication date: 20/10/2022. It is provided as information only and does not form part of a contract between any person and Victoria University.



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# COURSE DELIVERY PLAN 2023

## YEAR 1

| UNIT CODE | UNIT TITLE                               | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES |
|-----------|--|-----------|-----|---------------|--------|----------------|
| NIT1102   | Introduction to Programming              | Core      | 1B1 | 12            | FP     |                |
| NIT1103   | Communication and Information Management | Core      | 1B2 | 12            | FP     |                |
| NIT1101   | Web Development and CMS                  | Core      | 1B3 | 12            | FP     |                |
| NIT1104   | Computer Networks                        | Core      | 1B4 | 12            | FP     |                |
| NIT1201   | Introduction to Database Systems         | Core      | 2B1 | 12            | FP     |                |
| NIT1202   | Operating Systems                        | Core      | 2B2 | 12            | FP     |                |
| NIT1203   | Introduction to Project Management       | Core      | 2B4 | 12            | FP     |                |
| NIT1204   | Web Application and Server Management    | Core      | 2B4 | 12            | FP     | NIT1101        |



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## YEAR 2

| UNIT CODE | UNIT TITLE                       | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES     |
|-----------|----------------------------------|-----------|-----|---------------|--------|--------------------|
| NIT2113   | Cloud Application Development    | Core      | 1B1 | 12            | FP     | NIT1102            |
| NIT2151   | Fundamentals of Data Science     | Core      | 1B2 | 12            | FP     | NIT1102            |
| NIT2171   | Introduction to ICT Management   | Core      | 1B3 | 12            | FP     |                    |
| NIT2112   | Object Oriented Programming      | Core      | 1B4 | 12            | FP     |                    |
| NIT2213   | Software Engineering             | Core      | 2B1 | 12            | FP     |                    |
| NIT2251   | Machine Learning and Data Mining | Core      | 2B2 | 12            | FP     | NIT1102            |
| NIT2202   | Big Data                         | Core      | 2B3 | 12            | FP     | NIT1102 or NIT1201 |
| NIT2201   | IT Profession and Ethics         | Core      | 2B4 | 12            | FP     |                    |



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## YEAR 3

| UNIT CODE | UNIT TITLE                                    | UNIT TYPE | SEM | CREDIT POINTS | CAMPUS | PRE-REQUISITES                  |
|-----------|---|-----------|-----|---------------|--------|---------------------------------|
| NEF3001   | Applied Project 1                             | Core      | 1B1 | 12            | FP     |                                 |
| NIT3151   | Predictive Analysis                           | Core      | 1B2 | 12            | FP     | NIT2151; and NIT2251            |
| NIT3171   | ICT Business Analytics and Data Visualisation | Core      | 1B3 | 12            | FP     | NIT2202 and NIT2171; or NIT2271 |
| NIT3114   | Online Business System Development            | Core      | 1B4 | 12            | FP     | NIT1204; or NIT2112; or NIT2213 |
| NIT3202   | Data Analytics for Cyber Security             | Core      | 2B1 | 12            | FP     | NIT2102; and NIT2202            |
| NIT3213   | Mobile Application Development                | Core      | 2B2 | 12            | FP     | NIT2112; or NIT2213             |
| NIT3251   | Advanced Data Science                         | Core      | 2B3 | 12            | FP     | NIT2151; and NIT2251            |
| NEF3002   | Applied Project 2                             | Core      | 2B4 | 12            | FP     | NEF3001                         |



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