



OLLSCOIL NA
GAILLIMHE
UNIVERSITY
OF GALWAY

Coláiste an Leighis, an Altranais
& na nEolaíochtaí Sláinte
College of Medicine,
Nursing & Health Sciences

Masters in Applied Clinical Data Analytics

Handbook 2024-2025

Full Time & Part Time

University
of Galway.ie



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Welcome Messages



Welcome to the MSc in Applied Clinical Data Analytics program at the School of Medicine, University of Galway. We're excited to welcome you onto this course, designed to provide essential training and experience in the rapidly-evolving field of clinical data analytics.

As you embark on this journey with us, you will be among the first to experience the program's innovative approach to preparing healthcare workers for a career in this dynamic field. We're looking forward to seeing alumni from this course bring cutting edge data analytics into their clinical work.

I encourage you all to fully immerse yourselves in this course and seize every opportunity to gain hands-on experience in applied clinical data analytics within clinical settings. I also urge you to apply the knowledge you acquire from your modules to your own areas of interest or expertise within clinical data analytics.

In this first year, you are not just students but pioneers, and your feedback and experiences will help shape the future of this course. I have every confidence that you will find this course engaging, stimulating, and highly relevant to the healthcare landscape of today and tomorrow.

Dr Conor Judge, BEng, BMBS, MRCPI, PhD



I am delighted to welcome you all to the MSc in Applied Clinical Data Analytics! I look forward to meeting you all in September.

The aim of this program is to provide you with the necessary skills to conduct your own data analysis. It is also vital that you feel part of our network and the wider University of Galway community. Please get touch with me if you have any queries or concerns. You can also connect with us on Twitter and LinkedIn for updates.

Dr Sonja Khan, BSc, MSc, PhD, PGCert (Ed)

Academic Calendar

Academic Year 2024 -2025	
Orientation 1st years	Tuesday 3rd September to Friday 6th September*
Start of teaching all years	Monday 9th September
End of teaching all years	Friday 29th November (12 weeks of teaching)
Study week	Monday 2nd December to Friday 6th December
Semester 1 exams start	Monday 9th December
Semester 1 exams end	Friday 20th December (10 days of exams)
Christmas Holiday	Saturday 21st December
2025	
Start of Teaching	<i>Monday 13th January 2025</i>
End of Teaching	<i>Friday 4th April (12 weeks of teaching)</i>
Field Trips	<i>Monday 7th April to Thursday 10th April (4 working days as in 2020/21, 2022/23, 2023/24)</i>
Study Week	<i>Friday 11th April to Thursday, 20th April</i>
Semester 2 Exams Start	<i>Tuesday, 22nd April</i>
Easter	<i>Good Friday 18th April to Easter Monday 21st April 2025</i>
Semester 2 Exams End	<i>Friday, 9th May (13 days of exams)</i>
Autumn Repeat Exams	<i>Tuesday 5th to Friday 15th August (9 days of exams)</i>
Holidays	<i>Easter: Good Friday 18th April to Easter Monday 21st April 2025</i>
	<i>Bank Holidays: Monday 28th October 2024 / Monday, 17th March 2025</i>
	<i>Monday 5th May 2025/ Monday 2nd June 2025 / Monday 4th August 2025</i>

* To be confirmed

Approved AC Standing Dec 2020

Further information on term dates can be found [here](#) and a list of Irish Bank Holidays is available [here](#).

You are expected to be in attendance through the academic semester and exam periods. If you have commitment requiring you to miss a class, please let the module leaders know immediately so that arrangements can be made.

Full Course Structure

Full time MSc or Part time MSc (Applied Clinical Data Analytics)

Students are required to complete three compulsory modules in semester one (MD1590, MD1591 and MD1592) and three compulsory modules in semester two (MD1593, MD1594 and MD1595). There are no optional modules. Modules and research selected will total 90 ECTS credits over 1 year.

Thesis (30 ECTS):

The MSc thesis will be completed and submitted by **31st July 2025**.

		ECTS	Semester
Compulsory Modules in Semester One:			
MD1590	Health Research Methodology I	10	1
MD1591	Applied Medical Statistics I	10	1
MD1592	Clinical Data Analytics I	10	1
Compulsory Modules in Semester Two:			
MD1593	Health Research Methodology II	10	2
MD1594	Applied Medical Statistics II	10	2
MD1595	Clinical Data Analytics II	10	2
Compulsory Research:			
MD1596	Original Research and Thesis	30	Year long
	Total ECTS	90	

Semester 1 – Overview

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7.00-8.00		Health Research Methodology I			Clinical Data Analytics I
8.00-9.00					
9.00-10.00					
10.00-11.00					
11.00-12.00					
12.00-13.00					
13.00-14.00					
14.00-15.00					
15.00-16.00					
16.00-17.00				Applied Medical Statistics I	
17.00-18.00				Applied Medical Statistics I	

MD1590 Health Research Methodology I
 MD1591 Applied Medical Statistics I
 MD1592 Clinical Data Analytics I

Venue: Alexander Anderson Board Room, The Quadrangle
 Venue: Room G007 Clinical Science Institute
 Venue: Room 105 Comerford Suite Clinical Science Institute

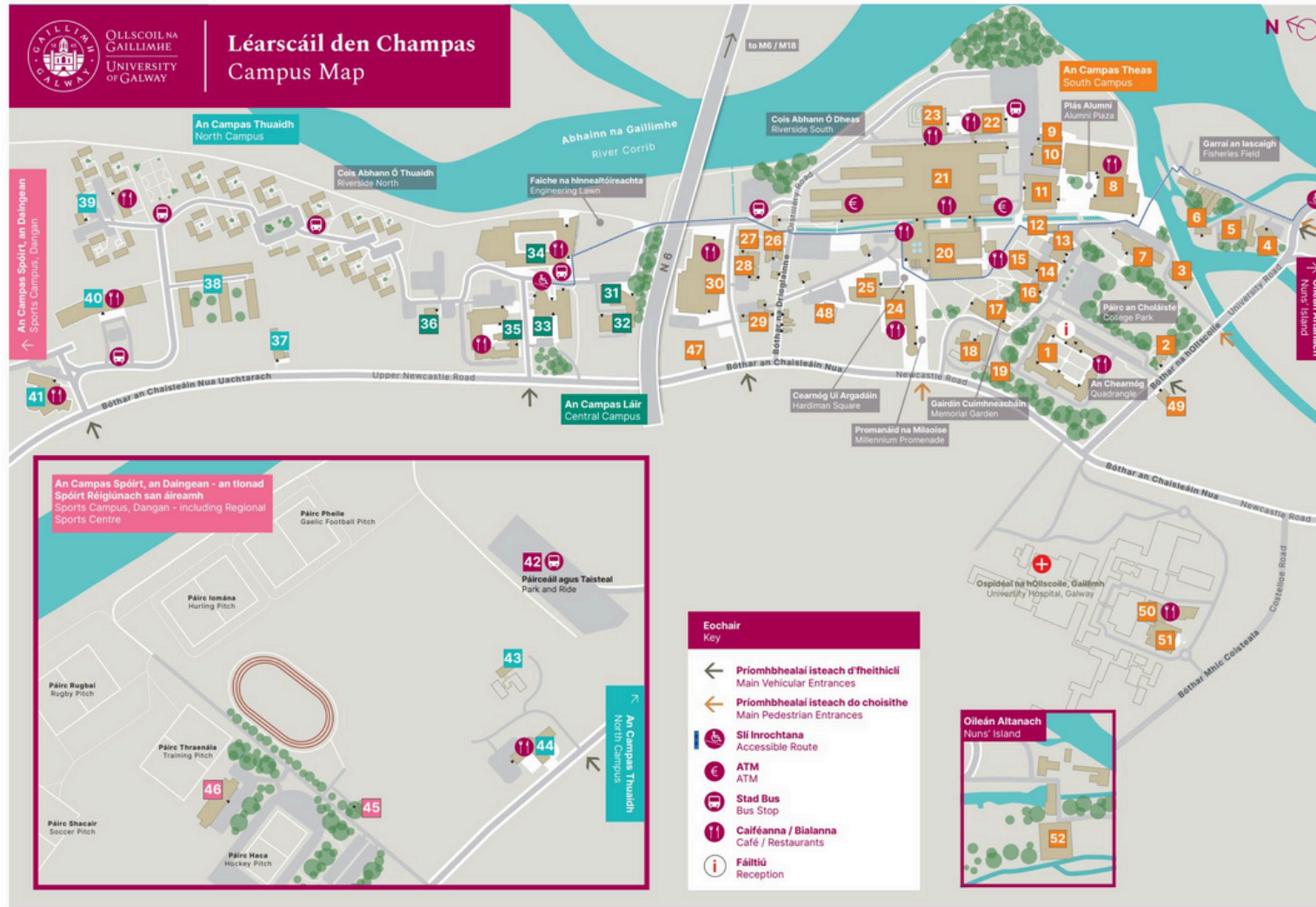
Semester 2 – Overview

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7.00-8.00		Health Research Methodology II			Clinical Data Analytics II
8.00-9.00					
9.00-10.00					
10.00-11.00					
11.00-12.00					
12.00-13.00					
13.00-14.00					
14.00-15.00					
15.00-16.00					
16.00-17.00				Applied Medical Statistics II	
17.00-18.00				Applied Medical Statistics II	

MD1593 Health Research Methodology II
 MD1594 Applied Medical Statistics II
 MD15925 Clinical Data Analytics II

Venue: Alexander Anderson Board Room, The Quadrangle
 Venue: Room G007 Clinical Science Institute
 Venue: Room 105 Comerford Suite Clinical Science Institute

Campus Map

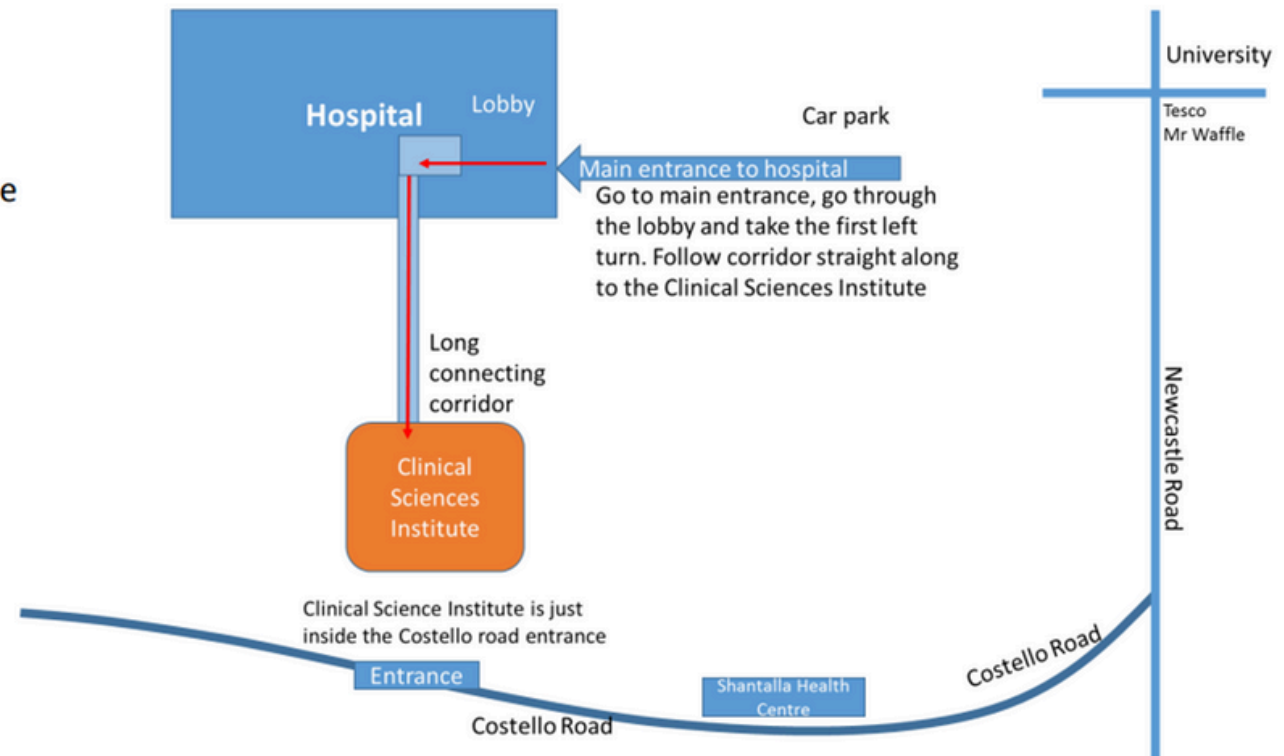


Clinical Science Institute

Directions to Clinical Sciences Institute (CSI)

Option 1) From main Hospital entrance go through lobby and take 1st left. Follow corridor straight all the way to CSI

Option 2) From Costello road – go through Costello road entrance and CSI is in front of you



CSI view from Costello road entrance



Module Descriptions

Health Research Methodology I; MD1590; Semester 1; ECTS 10

Module Leader(s): Prof Martin O'Donnell & Sonja Khan

Brief Description

Health Research Methodology I (MD1590) is a foundational course designed to introduce students to the basics of health research methodology. It focuses on various aspects of clinical research, including common research study designs, principles of Good Clinical Practice, and formulation of effective research questions using PICOT and FINER criteria. Students will also learn about principles of sampling, causation, outcome measures, internal and external validity, and statistical concepts such as sensitivity, specificity, and ROC curves. The goal is to equip students with a well-rounded understanding of health research methodology.

Learning Outcomes

- Define common research study designs and apply the principles of Good Clinical Practice (GCP) to randomised controlled trials and case-control studies.
- Describe the PICOT and FINER criteria for formulation of a research question and construct clinical research questions.
- Identify and interpret the principles of sampling in populations, causation, and different outcome measures in clinical research.
- Identify and justify the principles of internal and external validity, rates, case-fatality, adjusted rates, sensitivity, specificity, positive predictive value, negative predictive value, ROC curve, precision-recall curves, and clinical prediction rules.

Required Materials

- *Designing Clinical Research* (5th Ed.), Eds. Hulley *et al.*, 2022, 5rd Edition, and weekly reading from the literature.
- Weekly reading from the literature.

Student Evaluation

Students will have to gain a pass rate of 40% overall for a combination of end of module exam (date to be confirmed closer to the time) and contribution to tutorials.

Applied Medical Statistics I; MD1591; Semester 1; ECTS 10

Module Leader(s): Dr Conor Judge and Dr Alberto Alvarez

Brief Description

Applied Medical Statistics I (MD1591) is a first-semester course offering in-depth understanding of medical statistics for applied data analysis. Students will learn various statistical methods such as linear regression, logistic regression, among others, and how to apply these methods to research questions in a PICOT format. The course also covers hypothesis testing, understanding of different types of data, and statistical and clinical heterogeneity.

Learning Outcomes

- Design, plan and execute responsible data analysis including generation of a prospective statistical analysis plan to reduce probability of type I and type II errors.
- Justify the link between various statistical methods (linear regression, logistic regression, regression splines, generalised additive models, tree-based methods, support vector machines, principal component analysis, neural networks) and the research questions in a PICOT format.
- Discuss the null hypothesis, hypothesis testing, primary outcome (multiple testing), subgroups, interactions, type 1 and 2 error in the context of various study designs.
- State and justify the different types of tables and figures used in population and public health research papers and recall the concepts related to missing data (at random, completely at random etc.), confidence interval and standard deviation, different types of data (continuous, categorical, missing), statistical and clinical heterogeneity.

Required Materials

- White, Susan. *Basic & Clinical Biostatistics*: Fifth Edition. United States, McGraw Hill LLC, 2019.
- Oxford Handbook of Medical Statistics / Peacock, Janet L[HG1]
- Weekly reading from the literature.

Student Evaluation

Students will have to gain a pass rate of 40% overall for a combination of end of module exam (date to be confirmed closer to the time) and contribution to tutorials.

Clinical Data Analytics I; MD1592; Semester 1; ECTS 10

Module Leader: Dr Conor Judge, Dr Catriona Reddin, Dr Finn Krewer

Brief Description

Clinical Data Analytics I (MD1593) is a first-semester course that provides students with hands-on experience in data analytics, specifically using the R programming language. This course guides students through installing R and R-packages, importing and tidying data, creating various tables and figures used in population and public health research papers, and conducting statistical tests.

Students will learn the principles of tidy data and its significance in linking the structure of a dataset with its semantics.

Learning Outcomes

- Demonstrate the ability to install R, R-Studio, R-packages from CRAN and GitHub, import data from various sources into R-Studio (CSV file, Excel file, online file), convert a dataset to a tidy dataset, plot event metrics using ggplot2 and create the different types of tables and figures used in population and public health research papers.
- Prepare and present the concepts of tidy data and how they provide a standardised way to link the structure of a dataset (its physical layout) with its semantics (its meaning).
- Demonstrate how to perform a statistical test, generate a significance value (P-value), and generate a 2X2 tables using the R programming language.
- Demonstrate how to create a Table 1, Table 2 and subgroup analysis using the R programming language.

Required Materials

- Harrison, Ewen, and Pius, Riinu. *R for Health Data Science*. United Kingdom, CRC Press LLC, 2020.
- Grolemund, Garrett, and Wickham, Hadley. *R for Data Science: Import, Tidy, Transform, Visualize, and Model Data*. United States, O'Reilly Media, 2016.

Student Evaluation

Students will have to gain a pass rate of 40% overall for a combination of end-of module exam and assignments.

Health Research Methodology II; MD1593; Semester 2; ECTS 10

Module Leader: Prof Martin O'Donnell & Dr Sonja Khan

Brief Description

Health Research Methodology II (MD1594) is an advanced, second-semester module that furthers the student's understanding of health research methodologies. This course delves into more complex aspects of research design, systematic review methodology, and the interplay of data privacy regulations in clinical research. It also introduces students to a spectrum of data analysis approaches from traditional statistical methods to advanced concepts like machine learning and artificial intelligence. This module provides the critical skills and knowledge needed for effective and ethical clinical research in the modern data-driven healthcare landscape.

Learning outcomes

- Define common research study designs and apply the principles of Good Clinical Practice (GCP) to retrospective and prospective cohorts.
- Demonstrate the principles of systematic review methodology including design of systematic search, inclusion/exclusion criteria, forest plots, clinical and statistical heterogeneity.
- Define and justify the principles of GDPR when designing and undertaking clinical research projects.
- Critique various study designs to discern what research questions can be answered with various research designs.
- Synthesize and compose the PICOT criteria for formulation of a research question for systematic review.
- State examples of methodological issues with time and time-varying covariates.
- Contrast the differences between statistics/machine learning/deep learning/artificial intelligence applied to clinical data.

Required Materials

- *Designing Clinical Research* (5th Ed.), Eds. Hulley *et al.*, 2022, 5rd Edition
- Weekly reading from the literature.

Student Evaluation

Students will have to gain a pass rate of 40% overall for a combination of end-of module exam and assignments.

Applied Medical Statistics II; MD1594; Semester 2; ECTS 10

Module Leader(s): Dr Conor Judge, Dr Alberto Alvarez

Brief Description

Applied Medical Statistics II (MD1594) is a second-semester course that delves deeper into the field of medical statistics. This course addresses intricate concepts such as observational research, case-control studies, relative risk, odds ratio, time-to-event parameters, and more. Students will also gain insight into random and fixed effects methods, propensity-matched, and instrumental variable analysis (mendelian randomisation). This module provides an advanced understanding of medical statistics, essential for research in the field.

Learning Outcomes

- Determine the fundamentals of making comparisons in observational research, describe confounding (Identification and conceptual approach to addressing), explain the difference between matched and unmatched analysis in case-control studies.
- Differentiate relative risk, odds ratio, time-to-event (Hazard ratio), proportional hazards, reverse causation and selection bias.
- Summarise random and fixed effects methods, propensity-matched, and instrumental variable analysis (mendelian randomisation).

Required Materials

- White, Susan. *Basic & Clinical Biostatistics*: Fifth Edition. United States, McGraw Hill LLC, 2019.
- Weekly reading from the literature.

Student Evaluation

Students will have to gain a pass rate of 40% overall for a combination of end-of-module exam and assignments.

Clinical Data Analytics II; MD1595; Semester 2; ECTS 10

Module Leader(s): Dr Finn Krewer

Brief Description

Clinical Data Analytics II (MD1595) is an advanced, second-semester course that extends the use of the R programming language in clinical data analysis. This course focuses on in-depth techniques such as multivariable analysis, logistic regression, multilevel modelling for observational studies, and the applications of deep learning frameworks in natural language processing and computer vision. It also covers practical skills like version control with GitHub and R-Studio, and meta-analysis techniques including forest plot creation using the metafor package in R. This module is a comprehensive exploration of advanced clinical data analytics.

Learning Outcomes

- Demonstrate how to perform multivariable analysis, logistic regression, multilevel modelling for observational studies, create a spline, using the R programming language.
- Demonstrate how to perform Natural Language Processing, Classification, Computer
- Vision using deep learning frameworks in the R programming language.
- Demonstrate how to version control code with GitHub and R-Studio.
- Develop a meta-analysis and generate a forest plot using the metafor package in R.

Required Materials

- Harrison, Ewen, and Pius, Riinu. *R for Health Data Science*. United Kingdom, CRC Press LLC, 2020.
- Grolemund, Garrett, and Wickham, Hadley. *R for Data Science: Import, Tidy, Transform, Visualize, and Model Data*. United States, O'Reilly Media, 2016.

Student Evaluation

Students will have to gain a pass rate of 40% overall for a combination of end-of module exam and assignments.

THESIS; MD1596; Compulsory (FT) or (PT) Module; ECTS 30

Module Leader(s): Dr Sonja Khan and Dr Conor Judge

Brief Description

Students will participate in a clinical research project. The aim of this module is to enable students to develop deeper knowledge, understanding, capabilities and attitudes in the context of the programme of study. The thesis should be written at the end of the programme and offers the opportunity to delve more deeply into and synthesise knowledge acquired in previous studies. A list of potential supervisors and associated projects will be distributed in October/ November, students can list top 3 supervisors. Every effort will be made to accommodate student choices. Alternatively, students can also select their own supervisor and project.

Learning Outcomes

- Creation of a thesis including abstract, introduction, background/rationale, methods,
- results/findings, conclusion/discussion, and references/bibliography.
- Apply the principles of Good Clinical Practice and GDPR for thesis completion.
- Apply the PICOT and FINER criteria for thesis completion.
- Develop reproducible research methodology for thesis completion.
- Create different types of tables and figures to answer a research question for thesis completion.

Thesis marking criteria

Aspect of Thesis	Criteria
Research Aims and Purpose	Clarity of statement of rationale, aims and research questions. Ability to position topic with context of relevant literature and/or policy/practice concerns
Relevant and supporting Literature	Thoroughness of the description of the field, drawing on a range of appropriate sources. Capacity to offer critical appraisal of the field including identification of gaps.
Methodology and Data Analysis	Appropriateness of choice of research design. Effectiveness of use of methodological literature to support design. Adequacy of description and justification of research process. Coherence of data analysis and relationship to research question. Clarity regarding ethical approval process.
Results/ Findings	Clarity in presentation of findings/results. Relevance to stated research question and specified objectives. Effectiveness of use of supporting data (e.g. tables, figures, quotes). Use of editing to balance need for comprehensiveness and succinctness.
Discussion and Conclusion	Capacity to make sense of findings in light of research questions. Ability to interpret findings in the context of relevant literature. Ability to identify implications. Capacity for reflection and critical exploration of relevant ethical issues. Acknowledgement of methodological scope and limitations.
Overall Style of Writing	Clarity and flow of argument. Fluency and accuracy of writing. Coherence of structure and layout. Accuracy of referencing.

Additional Information

- The Thesis study word count max. 10,000 words. Submissions that are more than 10% over the word count will be returned to the student for editing.
- Students will be provided feedback on thesis writing throughout semester 1 and 2 as follows:
 - Project and Supervisor December-January
 - Research proposal submission January 2025
 - Thesis Introduction March 2025
 - Thesis Draft June 2025
 - Final Submission July 31st 2025
- Thesis should be submitted to Canvas by the 31st July each year under the course MD520: Thesis.
- A dissertation will be judged to have been submitted when all copies (paper and electronic) have been submitted.

Failure to submit thesis by the deadline will result in payment of fees of €1,800. Further information is available from UoG Examinations and Fees Office.



Marks and Standards

M.Sc. Applied Clinical Data Analytics – Full Time; 1 Year (12 months)

Level 9

Mode of study: Taught

90 ECTS

Results will be returned at Level 1

Honours awarded at the overall level; Honours awarded in the 1st sitting

- H1 >70%
- Upper H2 60-69%
- Lower H2 50-59%
- 3rd class H 40-49%
- Fail <40%

Students will have to gain a pass rate of 40% overall, for each subject.

M.Sc. Applied Clinical Data Analytics – Part Time; 2 Year (24 months)

Level 9

Mode of study: Taught

90 ECTS over 2 years

Results will be returned at Level 1

Pass/Fail only at the overall level in Year 1, Honours awarded at the overall level in Year 2;

Honours awarded in the 1st sitting

Students must have passed the equivalent of at least 30ECTS before progression to Year 2.

- H1 >70%
- Upper H2 60-69%
- Lower H2 50-59%
- 3rd class H 40-49%
- Fail <40%

Students will have to gain a pass rate of 40% overall, for each subject.

Useful Information

General Enquiries and response time

For any enquiries or concerns you may have during your time on the program, please contact the Course Directors or Course Coordinator, using the email address clinicaldataanalytics@universityofgalway.ie. Request for references or similar formal documents need to be made well in advance, least 2 weeks' notice is required and to be made in writing. Provide clear description of the matter in the subject line.

University of Galway Code of Conduct

Please familiarise yourselves with the University of Galway [Code of Conduct](#), procedures associated with examinations and assessment and other important matters. All students should read this document

www.universityofgalway.ie/media/student-services/files/Student-Code-of-Conduct.pdf

Attendance Guidelines

All students are expected to attend lectures, tutorial and workshops. These classes are critical for supporting progress. In the event of illness causing a student to miss a class, please inform the course coordinator. Students who miss classes are responsible for updating themselves on any information provided during those classes. Dates and deadlines associated with this course are subject to change therefore students must plan on being present and available for the whole semester.

Deadline/Deadline Extensions Guidelines

Each assessed work will have a submission deadline. **If work is handed in after a deadline it will either (a) not be marked or (b) will be subject to a penalty. A deadline extension will only be given in exceptional circumstances and MUST be negotiated ahead of the deadline.**

A deadline extension may be given if a student is affected by illness or other personal difficulties, in the case of a medical condition, the student will normally be required to submit a note from his/her doctor. A deadline must be negotiated with the originator of the assessment and the course coordinator must also be informed of the deadline extension.

Plagiarism Guidelines

Each student is responsible for ensuring that all work is handed in for assessment is his/her own. Plagiarism is the act of copying, including or directly quoting from the work of another without adequate acknowledgement, in order to obtain benefit, credit or gain. Plagiarism can apply to many materials, such as words, ideas, images, information, data, approaches or methods. Sources of [University of Galway Plagiarism](#) can include books, journals, reports, websites, essay mills, another student, or another person.

Self-plagiarism, or auto-plagiarism, is where a student re-uses work previously submitted to another course within the University or in another Institution.

All work submitted by students for assessment, for publication or for (public) presentation, is accepted on the understanding that it is their own work and contains their own original contribution, except where explicitly referenced using the accepted norms and formats of the appropriate academic discipline.

Plagiarism can arise through poor academic practice or ignorance of accepted norms of the academic discipline. Schools should ensure that resources and education around good academic practice is available to students at all levels.

How can Plagiarism be avoided?

Most cases of plagiarism can be avoided by citing your sources. Simply acknowledging that certain material has been borrowed, and providing your reader with the information necessary to find that source, is usually enough to prevent plagiarism. See below on 'Referencing' for information on how to cite properly.

Changing the words of an original source is not sufficient to prevent plagiarism. If you have retained the essential idea of an original source, and have not cited it, then no matter how drastically you have altered its context or presentation, you have still plagiarised. If you use a direct quotation from another source (using their words exactly), you must enclose it in "quotation marks" and quote the source, giving the page number.

How can plagiarism be detected?

All coursework you submit for assessment will be automatically submitted to "Turnitin", a plagiarism detection software programme which compares submitted work with hundreds of thousands in their database, as well as internet sites. **You are strongly advised to submit a draft of any assignment/thesis to Turnitin to determine its originality and to take corrective action, if necessary, before submitting the final version.**

What are the consequences of plagiarism?

The HRB Clinical Research Facility complies with the procedures outlined in the university policy on plagiarism at <http://www.universityofgalway.ie/plagiarism/>
Penalties may include automatic failure or disciplinary procedures.

The information above has been adapted from [Turnitin](#)

How to access e-journals through the library

<http://library.universityofgalway.ie/>

Access to current literature will be required during this MSc course, for reports, projects and for the thesis/independent study. The [Library](#) at University of Galway can provide access to the full text of many articles, including journals which are not held as paper copies.

1. Go to the University of Galway [Library](#) website
2. Click on Resources
3. Go to the Quick access section on right hand side of the screen
4. Click on: I want to.....Search for a journal
5. A basic search page will appear
6. At the top of the page click on Find e journal
7. Type the title of the journal into the box and click go
8. The journal title will appear on the screen along with a red SFX button
9. Click on this and the journal tile will appear with a blue E box beside it.
10. Click on this and you will have access to the full text journal.

If you need any further help please contact the library staff:

Cassidy, Mary

Medical Library / Library & IT Service Desk Assistant

Email: mary.cassidy@universityofgalway.ie

Tel: +353 91493601

Student Services

Using the Library The library at University of Galway can provide access to the full text of many articles, including journals which are not held as paper copies. You can access this material in the library, on campus and from home if you login to the system appropriately. The [library webpage](#) have some excellent 'how to' advice, which are a great place to start orienting yourself.

Career Development Centre

The University of Galway [Career Development Centre](#) is a useful resource; I suggest you avail of the many workshops and mentoring opportunities they provide. They can give you help finding and applying for jobs, for PhD positions and for obtaining funding for research positions. They will also give advice about preparing an effective cover letter and *curriculum vitae*.

Academic Writing Centre

Many learners find writing assignments challenging; particularly if they have not written for some time. The Academic Writing Centre can provide support for students who feel that they have a recurrent problem with grammar, punctuation, spelling, or essay structure. They offer free one-on-one teaching sessions on campus tailored to your needs. You can find out more information about the service including contact details via [this link](#). That link also includes some helpful links including video tutorials.

Contact Details

All course related queries should be directed to our dedicated MSc in Applied Clinical Data Analytics email (clinicaldataanalytics@universityofgalway.ie).

Program Co-Director:

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Module Leaders

MODULES:		MODULE LEADER
MD1590	Health Research Methodology I	Prof Martin O'Donnell & Dr Sonja Khan
MD1591	Applied Medical Statistics I	Dr Conor Judge & Dr Alberto Alvarez
MD1592	Clinical Data Analytics I	Dr Conor Judge & Dr Finn Krewer
MD1593	Health Research Methodology II	Prof Martin O'Donnell & Dr Sonja Khan
MD1594	Applied Medical Statistics II	Dr Conor Judge & Dr Catriona Reddin
MD1595	Clinical Data Analytics II	Dr Finn Krewer
MD1596	Original Research and Thesis	Dr Sonja Khan & Dr Conor Judge Co-Directors