IRDI Collaborative Institutional Training Programme

Research Ethics and Compliance Training

CITI PROGRAM

IRDI INSTITUTE FOR RESEARCH, DEVELOPMENT & INNOVATION

Innovation
Imagination
Insight

PROGRAMME OBJECTIVE

The Collaborative Institutional Training Initiative (CITI Programme) is dedicated to promoting the public's trust in the research enterprise by providing high quality, peer-reviewed, web-based educational courses in research ethics, compliance, and professional development education.

30
Training courses for diverse research background

100% Online
24/7 Access to all course materials and assessments

Internationally Recognized

Is this programme right for me?

CITI Programme offers research ethics, compliance, and professional development education on a number of subjects for various audiences, including researchers, students and faculty, IRB members, and research administrators. The online courses are used worldwide by over 2,200 organizations and more than 1 million learners around the world annually.

Earn a Certificate. What are my options?

The programme is offered as a series of courses. When you subscribe to the programme, you are automatically subscribed to all the courses (subject to a one-time activation fee). Upon completion of each course, you will receive a Completion Report and a Completion Certificate.

ANNUAL SUBSCRIPTION FEE *(inclusive of SST)*

IMU Student	RM 200
IMU Alumni	RM 200

Responsible Conduct of Research (RCR)
3 Courses | 12 Modules

Conflicts of Interest (COI)
1 Course | 4 Modules

Information Privacy & Security (IPS)
4 Courses | 17 Modules

Human Subjects Research (HSR)
7 Courses | 93 Modules

Animal Care and Use (ACU)
11 Courses | 77 Modules

Good Clinical Practice (GCP)
4 Courses | 55 Modules

All applications and additional details will be available on the IMU Centre for Lifelong Learning website (www.imu.edu.my/icl). Please email icl@imu.edu.my with any questions or for additional information.

What courses should I take?

The specific course will depend on your study area and activities. Please, see the following chart for more information:

Research Training Courses	Research NOT involving human subjects or animals	Research involving human subjects						Research involving animals	
		Clinical trials	Research involving collection of specimen	Research involving collection of existingclinical data	Research involving survey / questionnaire	Research involving collection of students' data	Research involving humanitarian activities (e.g. IMU Cares)	Involving lab animals	Involving wild-life
Responsible Conduct of Research (RCR)									
Biomedical Responsible Conduct of Research	●	●	●	●				●	●
Social and Behavioural Responsible Conduct of Research					●	●			
Humanities Responsible Conduct of Research							●		
Conflicts of Interest (COI)	●	●	●	●	●	●	●	●	●
Information Privacy and Security (IPS)									
Information Privacy & Security for Researcher	●	○	○	○	●	●	●	●	●
Information Privacy & Security for Clinician		●	●	●	○	○	○		
Information Privacy & Security for Students and Instructors	○	○	○	○	○	○	○	○	○
Family Educational Rights and Privacy Act (FERPA)						●			
Human Subjects Research (HSR)									
HSR for Biomedical Research		●	○	○					
HSR for Biomedical Data or Specimens Only Research		○	●	●					
HSR for Social-Behavioural-Educational (SBE) Research					●	●	●		
Public Health Research				●	●	●	●		
HSR for IRB Members									
IRB Chair									
Institutional/Signatory Official: Human Subjects Research									
Good Clinical Practice (GCP)									
Clinical Trials with Investigational Drugs and Biologics (ICH Focus)		●	●	●					
Clinical Trials with Investigational Drugs and Medical Devices (U.S. FDA Focus)		●							
Clinical Investigations of Devices		●							
Social and Behavioural Research Best Practices for Clinical Research					●	●	●		
Animal Care and Use (ACU)									
Working with the IACUC								●	●
Essentials for IACUC Members								●	●
IACUC Community Member								●	●
Post-Approval Monitoring (PAM)								●	●
Working with Mice in Research								○	
Working with Rats in Research								○	
Reducing Pain and Distress in Laboratory Mice and Rats								○	
Working with Rabbits in Research								○	
Working with Guinea Pigs in Research								○	
Working with Hamsters in Research								○	
Wildlife Research								○	●

● Recommended ○ Optional

Responsible Conduct of Research (RCR)

Biomedical Responsible Conduct of Research

This course covers the core norms, principles, regulations, and rules governing the practice of biomedical research.

ABOUT THIS COURSE

RCR is increasingly viewed as an essential component of training, regardless of a researcher's source of funding. The term RCR is sometimes used interchangeably with research integrity or research ethics but these phrases do not always mean the same thing.

It covers essential topic areas such as authorship, data management, and research misconduct that are relevant to researchers from any field or discipline. It also includes content more specifically tailored to a subset of research fields, including "Research Involving Human Subjects" and "Using Animal Subjects in Research".

RCR is suitable for any person involved in research, ranging from upper-level undergraduates to established faculty. Particular emphasis is given to the educational needs of graduate students and postdoctoral researchers.

COURSE CONTENT

- Introduction to RCR
- Authorship
- Collaborative Research
- Conflicts of Interest
- Data Management
- Mentoring
- Peer Review
- Plagiarism
- Research Involving Human Subjects
- Using Animal Subjects in Research
- Research Misconduct
- Research, Ethics, and Society (optional)

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Responsible Conduct of Research (RCR)

Social and Behavioural Responsible Conduct of Research

This course covers the core norms, principles, regulations, and rules governing the practice of biomedical research.

ABOUT THIS COURSE

RCR is increasingly viewed as an essential component of training, regardless of a researcher's source of funding. The term RCR is sometimes used interchangeably with research integrity or research ethics but these phrases do not always mean the same thing.

It covers essential topic areas such as authorship, data management, and research misconduct that are relevant to researchers from any field or discipline. It also includes content more specifically tailored to a subset of research fields, including "Research Involving Human Subjects" and "Using Animal Subjects in Research".

RCR is suitable for any person involved in research, ranging from upper-level undergraduates to established faculty. Particular emphasis is given to the educational needs of graduate students and postdoctoral researchers.

COURSE CONTENT

- Introduction to RCR
- Authorship
- Collaborative Research
- Conflicts of Interest
- Data Management
- Mentoring
- Peer Review
- Plagiarism
- Research Involving Human Subjects
- Research Misconduct
- Using Animal Subjects in Research (optional)
- Research, Ethics, and Society (optional)

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Responsible Conduct of Research (RCR)

Humanities Responsible Conduct of Research

This course covers the core norms, principles, regulations, and rules governing the practice of biomedical research.

ABOUT THIS COURSE

RCR is increasingly viewed as an essential component of training, regardless of a researcher's source of funding. The term RCR is sometimes used interchangeably with research integrity or research ethics but these phrases do not always mean the same thing.

It covers essential topic areas such as authorship, data management, and research misconduct that are relevant to researchers from any field or discipline. It also includes content more specifically tailored to a subset of research fields, including "Research Involving Human Subjects" and "Using Animal Subjects in Research".

RCR is suitable for any person involved in research, ranging from upper-level undergraduates to established faculty. Particular emphasis is given to the educational needs of graduate students and postdoctoral researchers.

COURSE CONTENT

- Introduction to RCR
- Authorship
- Collaborative Research
- Conflicts of Interest
- Data Management
- Mentoring
- Peer Review
- Plagiarism
- Research Involving Human Subjects
- Research Misconduct
- Using Animal Subjects in Research (optional)
- Research, Ethics, and Society (optional)

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Conflicts of Interest (COI)

This course provides foundational training on the regulations associated with financial conflicts of interests in research.

ABOUT THIS COURSE

The public relies on the validity of research conducted at universities, academic medical centres, and other institutions. While nonfinancial factors affecting professional judgment are important, the focus of this course is on the potential for financial interests of individual researchers, and those of their immediate family members, to affect the design, conduct, or reporting of their research.

This course provides an overview of the regulations on financial conflicts of interest. It includes a discussion of an investigator's responsibilities relating to the disclosure of "Significant Financial Interests."

It also presents an overview of the responsibilities that institutions have regarding the regulations on financial conflicts of interest.

It provides an overview of conflicts of commitment, conflicts of conscience, and other types of non-financial conflicts of interest. In addition, it seeks to help learners identify strategies that may help to address these types of conflicts.

COURSE CONTENT

- Financial Conflicts of Interest: Overview, Investigator Responsibilities, and COI Rules
- Institutional Responsibilities as They Affect Investigators
- Conflicts of Commitment and Conscience (Optional)
- Institutional Conflicts of Interest (Optional)

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Information Privacy & Security (IPS)

Information Privacy & Security for Researcher

This course covers the principles of data protection, healthcare-related privacy and information security, and the educational records and data-related security.

ABOUT THIS COURSE

The IPS course is designed to help ensure health privacy compliance, quality assurance, and risk reduction.

IPS consists of three topics on Health Privacy (focusing on HIPAA), Information Security, and the Family Educational Rights and Privacy Act (FERPA), which can be utilized based on organizational needs.

The Health Privacy content addresses legal-regulatory requirements for data protection by subject area. Currently, the focus is on HIPAA-related requirements for health data. FERPA-related content focused on education records is also available. The Information Security track discusses protection of information in any context, regardless of the subject matter.

REQUIRED MODULES

- Basics of Health Privacy
- Health Privacy Issues for Researchers
- Basics of Information Security, Part 1
- Basics of Information Security, Part 2

SUPPLEMENTAL MODULES

- Protecting Your Computer
- Protecting Your Portable Devices
- Protecting Your Identity
- Safer Emailing and Messaging, Part 1
- Safer Emailing and Messaging, Part 2
- Safer Web Surfing
- Security for Work/Workers Off-Site
- Picking and Protecting Passwords
- Safer Social Networking

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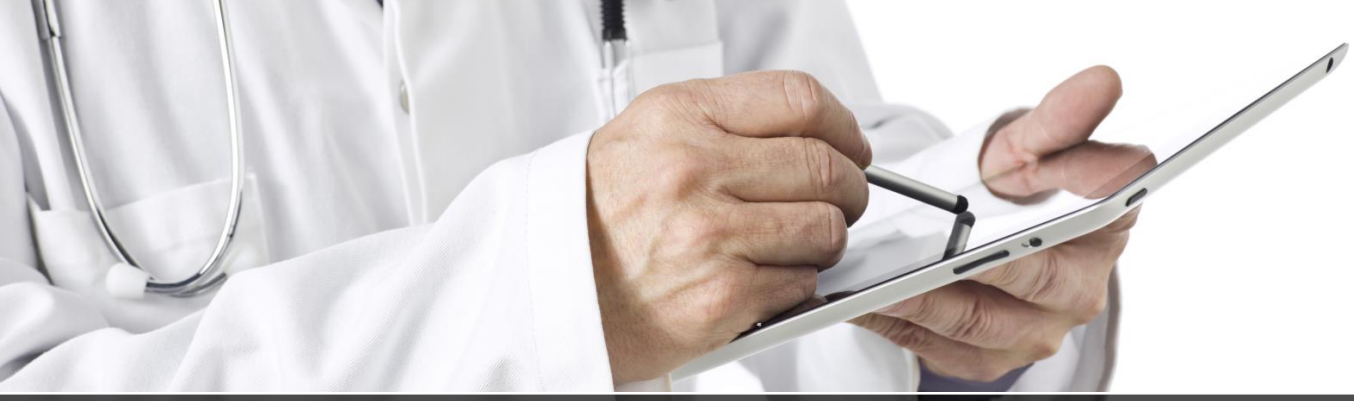

Information Privacy & Security (IPS)

Information Privacy & Security for Clinician

This course covers the principles of data protection, healthcare-related privacy and information security, and the educational records and data-related security.

ABOUT THIS COURSE

The IPS course is designed to help ensure health privacy compliance, quality assurance, and risk reduction.

IPS consists of three topics on Health Privacy (focusing on HIPAA), Information Security, and the Family Educational Rights and Privacy Act (FERPA), which can be utilized based on organizational needs.

The Health Privacy content addresses legal-regulatory requirements for data protection by subject area. Currently, the focus is on HIPAA-related requirements for health data. FERPA-related content focused on education records is also available. The Information Security track discusses protection of information in any context, regardless of the subject matter.

REQUIRED MODULES

- Basics of Health Privacy
- Health Privacy Issues for Clinicians
- Basics of Information Security, Part 1
- Basics of Information Security, Part 2
- FERPA: An Introduction

SUPPLEMENTAL MODULES

- Health Privacy Issues for Researchers
- Protecting Your Computer
- Protecting Your Portable Devices
- Protecting Your Identity
- Safer Web Surfing
- Security for Work/Workers Off-Site
- Picking and Protecting Passwords
- Safer Social Networking

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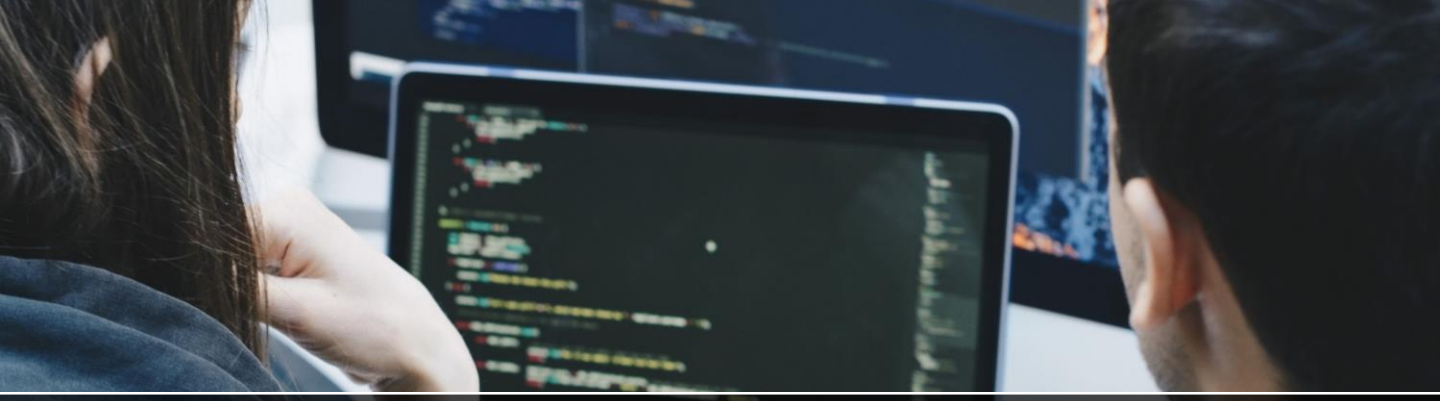

Information Privacy & Security (IPS)

Information Privacy & Security for Students and Instructors

This course covers the principles of data protection, healthcare-related privacy and information security, and the educational records and data-related security.

ABOUT THIS COURSE

The IPS course is designed to help ensure health privacy compliance, quality assurance, and risk reduction.

IPS consists of three topics on Health Privacy (focusing on HIPAA), Information Security, and the Family Educational Rights and Privacy Act (FERPA), which can be utilized based on organizational needs.

The Health Privacy content addresses legal-regulatory requirements for data protection by subject area. Currently, the focus is on HIPAA-related requirements for health data. FERPA-related content focused on education records is also available. The Information Security track discusses protection of information in any context, regardless of the subject matter.

REQUIRED MODULES

- Basics of Health Privacy
- Health Privacy Issues for Researchers
- Basics of Information Security, Part 1
- Basics of Information Security, Part 2

SUPPLEMENTAL MODULES

- Protecting Your Computer
- Protecting Your Portable Devices
- Protecting Your Identity
- Safer Emailing and Messaging, Part 1
- Safer Emailing and Messaging, Part 2
- Safer Web Surfing
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Information Privacy & Security (IPS)

Family Educational Rights and Privacy Act (FERPA)

This course covers the core requirements of the federal Family Educational Rights and Privacy Act (FERPA).

ABOUT THIS COURSE

The Family Educational Rights and Privacy Act (FERPA) protects the privacy of students by giving them (and their parents if they are minors) access to their educational records and control over how this information is disclosed to third parties.

Professionals who work in education should know the law's core aspects to ensure compliance with the regulations.

This course provides a comprehensive educational resource on FERPA's core aspects to ensure compliance with the regulations, as well as role-specific material for a variety of professionals working in education and research.

REQUIRED MODULES

- FERPA: An Introduction

SUPPLEMENTAL MODULES

- FERPA for Instructors
- FERPA for Students
- FERPA for Researchers
- FERPA for Institutional Review Boards (IRBs)
- FERPA for Educational Administrators

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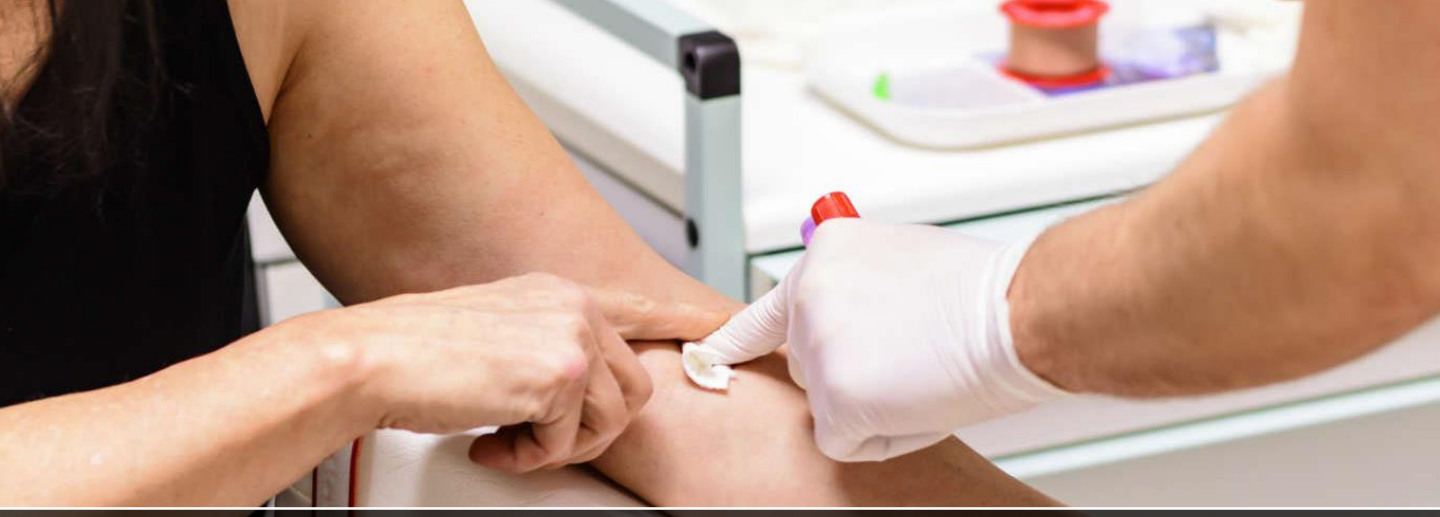

Human Subjects Research (HSR)

HSR for Biomedical Research

This course covers the core human subjects research topics for biomedical researchers.

ABOUT THIS COURSE

This course satisfy the training requirements for Investigators and staff involved primarily in Biomedical research with human subjects.

It covers the historical development of human subject protections, as well as current regulatory information and ethical issues. Case studies are used within the modules to present key concepts.

The HSR courses are suitable for all persons involved in research studies involving human subjects, or who have responsibilities for setting policies and procedures with respect to such research, including Institutional Review Boards (IRBs) and other members of organizational communities where research with human subjects occurs.

COURSE CONTENT

- Belmont Report and Its Principles
- Populations in Research Requiring Additional Considerations and/or Protections
- Basic Institutional Review Board (IRB) Regulations and Review Process
- Informed Consent
- Social and Behavioural Research (SBR) for Biomedical Researchers
- Records-Based Research
- Genetic Research in Human Populations
- Research Involving Children
- FDA-Regulated Research
- Research and HIPAA Privacy Protections
- Vulnerable Subjects - Research Involving Workers/Employees
- Conflicts of Interest in Human Subjects Research

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Human Subjects Research (HSR)

HSR for Biomedical Data or Specimens Only Research

This course covers the training requirements for Investigators and staff involved primarily in research involving data or laboratory specimens with no direct contact with human subjects.

ABOUT THIS COURSE

This course satisfy the training requirements for Investigators and staff involved primarily in research involving data or laboratory specimens with no direct contact with human subjects.

It covers the historical development of human subject protections, as well as current regulatory information and ethical issues. Case studies are used within the modules to present key concepts.

The HSR courses are suitable for all persons involved in research studies involving human subjects, or who have responsibilities for setting policies and procedures with respect to such research, including Institutional Review Boards (IRBs) and other members of organizational communities where research with human subjects occurs.

COURSE CONTENT

- Belmont Report and Its Principles
- Populations in Research Requiring Additional Considerations and/or Protections
- History and Ethics of Human Subjects Research
- Basic Institutional Review Board (IRB) Regulations and Review Process
- Records-Based Research
- Genetic Research in Human Populations
- Conflicts of Interest in Human Subjects Research
- Illegal Activities or Undocumented Status in Human Research (optional)
- Consent and Subject Recruitment Challenges (optional)
- Consent and Biobanks and Associated Databases (optional)
- Stem Cell Research Oversight (optional)

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Human Subjects Research (HSR)

HSR for Social-Behavioural-Educational (SBE) Research

This course covers the core human subjects research topics for social-behavioural-educational researchers.

ABOUT THIS COURSE

This course satisfy the training requirements for Investigators and staff involved primarily in Social and Behavioural research with human subjects.

It provides an introduction to social-behavioural-educational research with a focus on the protection of human subjects. It offers historic and current information on regulatory and ethical issues important to the conduct of research involving human subjects.

The HSR courses are suitable for all persons involved in research studies involving human subjects, or who have responsibilities for setting policies and procedures with respect to such research, including Institutional Review Boards (IRBs) and other members of organizational communities where research with human subjects occurs.

COURSE CONTENT

- Populations in Research Requiring Additional Considerations and/or Protections
- History and Ethical Principles
- Defining Research with Human Subjects
- Assessing Risk
- Informed Consent
- Privacy and Confidentiality
- Research with Prisoners
- Research with Children
- Research in Public Elementary and Secondary Schools
- Internet-Based Research
- Conflicts of Interest in Human Subjects Research
- Unanticipated Problems and Reporting Requirements in Social and Behavioural Research

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Human Subjects Research (HSR)

Public Health Research

This course provides an overview of the difference between research and practice, and reviews consent and ethical issues for public health researchers.

ABOUT THIS COURSE

While public health research is subject to the same rigorous scientific and ethical standards as other human subjects research, both the unique features and legislative mandates of public health require special treatment. The conduct of research activities is a major mission of public health professionals, as many of the usual functions performed in routine practice involve surveillance, assessment, or process improvement. It is also important to understand the overlap between public health practice and research.

COURSE CONTENT

- Introduction to Public Health Research
- Public Health Research and Public Health Practice
- Informed Consent and Confidentiality in Public Health Research
- Ethical Issues in Public Health Research

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Human Subjects Research (HSR)

HSR for IRB Members

This course covers the core human subjects research topics for IRB or Ethics Committee members.

ABOUT THIS COURSE

This course is appropriate for IRB or Ethics Committee members.

It covers the historical development of human subject protections, as well as current regulatory information and ethical issues. Case studies are used within the modules to present key concepts.

The HSR courses are suitable for all persons involved in research studies involving human subjects, or who have responsibilities for setting policies and procedures with respect to such research, including Institutional Review Boards (IRBs) and other members of organizational communities where research with human subjects occurs.

COURSE CONTENT

- Belmont Report and Its Principles
- Avoiding Group Harms
- Populations in Research Requiring Additional Considerations and/or Protections
- History and Ethical Principles of Human Subjects Research
- Defining Research with Human Subjects
- Basic Institutional Review Board (IRB) Regulations and Review Process
- Assessing Risk
- Informed Consent
- Privacy and Confidentiality
- Conflicts of Interest in Human Subjects Research
- What Every New IRB Member Needs to Know
- I Have Agreed to be an IRB Community Member. Now What?

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Human Subjects Research (HSR)

IRB Chair

This course provides detailed training for current and future Institutional Review Board (IRB) chairs.

ABOUT THIS COURSE

The IRB Chair Course is intended for chairs of Institutional Review Boards (IRBs). It provides detailed training in regard to their role and responsibilities, IRB meeting responsibilities, and role outside of the IRB meeting. This course complements the foundational training provided by the Human Subjects Research series.

COURSE CONTENT

- Role and Responsibilities of an IRB Chair
- IRB Chair Meeting Responsibilities
- The IRB Chair's Role Outside of the IRB Meeting

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Human Subjects Research (HSR)

Institutional/Signatory Official: Human Subjects Research

This course provides a foundational training for institutional/signatory officials on their roles and responsibilities as part of the human research protection.

ABOUT THIS COURSE

This course provides a general introduction for institutional officials (IOs) in a variety of organizations – biomedical, behavioural, social sciences, and others, as well as a variety of organizational structures – academic medical centres, colleges and universities, independent IRBs, research sites, and others. It introduces the learner to the roles and responsibilities of the IO, including the regulatory role and expectations, obligations imposed on the organization, and functions that are part of the human research protections programme (HRPP).

COURSE CONTENT

- Introduction to Being an Institutional Official
- IO Knowledge Requirements: Human Subject Protections
- Expectations of the IO
- Challenges of Being an IO: Human Subject Protections
- Disaster and Conflict Research, Part 1: PI Responsibilities (optional)
- Disaster and Conflict Research, Part 2: Best Practices and Recommendations (optional)

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Good Clinical Practice (GCP)

Clinical Trials with Investigational Drugs and Biologics (ICH Focus)

This course is suitable for individuals proposing to conduct clinical trials of drugs and biologics in the U.S. and internationally and/or who would prefer a more ICH-centric curriculum.

ABOUT THIS COURSE

The GCP ICH Basic course covers International Council for Harmonisation (ICH) E6 Good Clinical Practice (GCP) guideline essential topics for clinical trials with drugs and biologics. It describes the responsibilities and expectations for the conduct, monitoring, reporting, and documenting of clinical trials.

It is intended for research personnel involved in drug and biologic studies and who would benefit from a more internationally focused training, or for researchers involved in studies where compliance with ICH is required (for example, most industry-funded studies). It should be noted, however, that when appropriate, references to U.S. Food and Drug Administration (FDA) regulations and guidance are included.

LEARNING OBJECTIVES

By the end of this course, you should be able to:

- Evaluate federal regulations for clinical research and drug development.
- Determine the role of the International Council for Harmonisation.
- Recognize the role of international standards on clinical research.
- Identify clinical researcher responsibilities.

TOPICS INCLUDE

- Reviewing ICH GCP standards
- Identifying investigator and sponsor obligations
- Discussing new drug development
- Describing how to detect and report adverse events
- Auditing and monitoring expectations

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Good Clinical Practice (GCP)

Clinical Trials with Investigational Drugs and Medical Devices (U.S. FDA Focus)

This course is suitable for individuals proposing to conduct clinical trials of drugs, biologics, and devices primarily in the U.S. and/or who would prefer a more U.S. FDA-centric curriculum.

ABOUT THIS COURSE

The GCP U.S. FDA Basic course covers Good Clinical Practice (GCP) and U.S. Food and Drug Administration (FDA) essential topics for clinical trials with investigational drugs, biologics, and/or medical devices. It is intended for research personnel involved in drug, biologic, or device studies and who would benefit from FDA-focused training.

The course describes the role of industry sponsors in the conduct of clinical trials under an investigational new drug (IND) application according to FDA regulations. Provides an overview of definitions, procedures, and timelines associated with the development of a new drug. Also covers electronic records and signatures pursuant to 21 CFR Part 11 and ClinicalTrials.gov requirements pursuant to 42 CFR Part 11.

LEARNING OBJECTIVES

By the end of this course, you should be able to:

- Evaluate federal regulations for clinical research and drug development.
- Determine the role of the International Council for Harmonisation.
- Recognize the role of international standards on clinical research.
- Identify clinical researcher responsibilities.

TOPICS INCLUDE

- Reviewing FDA regulations
- Identifying investigator and sponsor obligations
- Discussing new drug development
- Describing how to detect and report adverse events
- Auditing and monitoring expectations

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Good Clinical Practice (GCP)

Clinical Investigations of Devices

This course provides training for research personnel involved in clinical investigations of devices.

ABOUT THIS COURSE

The GCP Device Basic course is intended for research personnel involved in investigations of devices. It includes FDA regulations and guidance as well as International Organization for Standardization Guidelines ISO 14155:2011.

LEARNING OBJECTIVES

By the end of this course, you should be able to:

- Evaluate federal regulations for clinical research and device development.
- Recognize the role of international standards on clinical research.
- Identify clinical researcher and sponsor responsibilities.
- Discuss the reporting requirements and oversight of clinical investigations of devices.

TOPICS INCLUDE

- Overview of U.S. FDA Regulations for Investigational Devices
- Investigator Obligations in FDA-Regulated Clinical Investigations of Devices
- Conducting Investigator-Initiated Clinical Investigations of Devices
- Managing Investigational Devices According to GCP Requirements
- Informed Consent in Clinical Investigations of Devices
- Monitoring Clinical Investigations of Devices
- Audits and Inspections of Clinical Investigations of Devices
- Reporting Requirements for Clinical Investigations of Devices
- Completing the CITI programme's GCP Course for Clinical Investigations of Devices

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Good Clinical Practice (GCP)

Social and Behavioural Research Best Practices for Clinical Research

This course is suitable for social and behavioural investigators and staff who must be trained in GCP.

ABOUT THIS COURSE

The GCP – Social and Behavioural Research Best Practices for Clinical Research course introduces GCP principles and discusses how they apply to clinical trials using behavioural interventions and social science research. This course is presented in a dynamic, nine-module format with narration, interactive features, and downloadable resources.

It discusses the elements of a social and behavioural research Institutional Review Board (IRB) protocol and standard operating procedures (SOPs); Introduces the concept of treatment fidelity and discusses strategies to minimize protocol deviations; Presents a number of best practices for recruiting participants and keeping them enrolled and engaged in the study; and provides strategies to protect participant privacy and confidentiality.

COURSE CONTENT

- Introduction
- Research Protocol
- Recruitment and Retention
- Informed Consent Communication
- Privacy and Confidentiality
- Participant Safety and Adverse Event Reporting
- Quality Control and Assurance
- Research Misconduct
- Conclusion

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Animal Care and Use (ACU)

Working with the IACUC

This course provides basic training on the protection of animal subjects used in research.

ABOUT THIS COURSE

This course is intended for laboratory research personnel who will write animal-use protocols for review by an Institutional Animal Care and Use Committee (IACUC) member or who will handle animals under such protocols. It provides basic information regarding the regulations for protection of animal subjects used in research, teaching, and testing. It also describes the sources and applicability of regulations governing animals in these uses.

In addition, it discusses the role, authority, and composition of the IACUC, the types of IACUC review, and the items of information required for the review. It discusses animal surgery, blood sample collection, antibody production, and euthanasia.

COURSE CONTENT

- Working with the IACUC: Introduction
- About the IACUC
- Federal Laws, Policies, and Guidelines
- Planning Research and Completing the Protocol Form
- Procedures: Surgery, Antibody Production, and Blood Collection
- Personnel and Their Welfare
- Special Animal Welfare Considerations
- Making Changes to an Approved Animal Use Protocol
- Reporting Animal Use Concerns
- Aseptic Surgery (optional)
- Antibody Production in Animals (optional)

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Animal Care and Use (ACU)

Essentials for IACUC Members

This course offers in-depth training for IACUC members.

ABOUT THIS COURSE

This course provides an in-depth look at Institutional Animal Care and Use Committee (IACUC) responsibilities, authority, and membership, as well as the IACUC's relationship with the Chief Executive Officer (CEO) and Institutional Official (IO). The course also discusses the review of animal use protocols, facilities inspection, and the procedures for investigating allegations of improper animal care and use.

It provides basic information regarding the regulations for protection of animal subjects used in research, teaching, and testing. It also describes the sources and applicability of regulations governing animals in these uses.

COURSE CONTENT

- Essentials for IACUC Members: Introduction
- Federal Laws, Policies, and Guidelines
- IACUC and IACUC Member Responsibilities
- IACUC Membership Requirements
- Quorum, Alternate Members, and Telecommunications
- The IACUC, CEO, and IO
- Protocol Review
- Suspending Animal Activities
- Types of IACUC Review: Initial, Annual, Triennial
- Documenting IACUC Actions
- Semiannual Evaluations – An Overview
- Facility Inspections and Programme Review
- Identifying, Documenting, and Correcting Deficiencies

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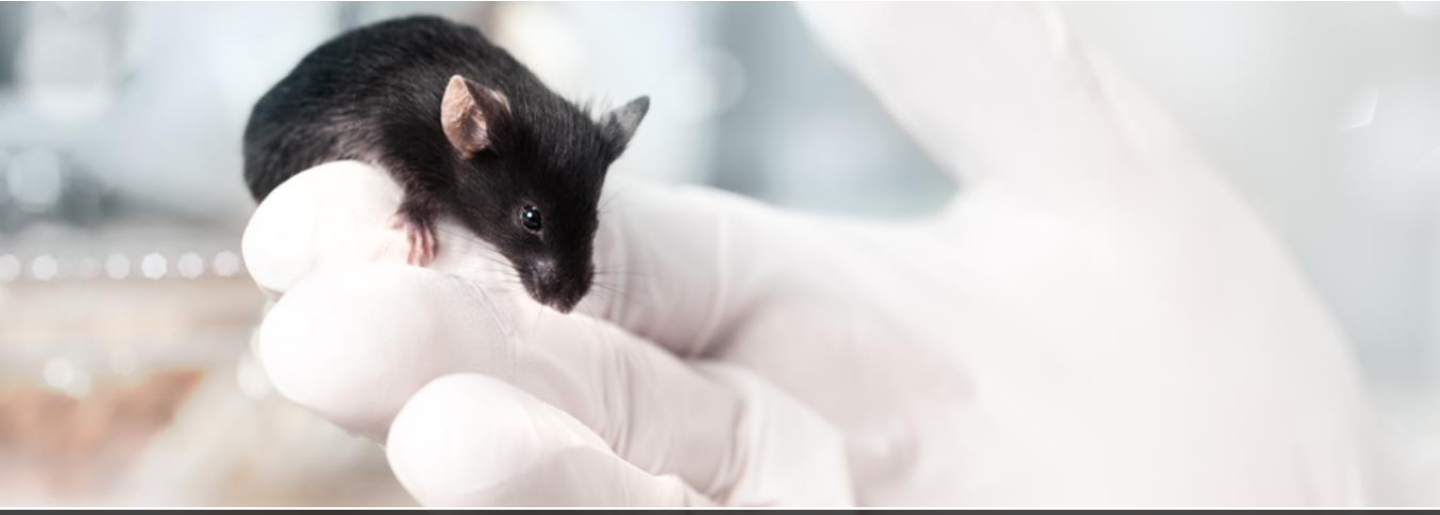

Animal Care and Use (ACU)

IACUC Community Member

This course offers in-depth training for IACUC members.

ABOUT THIS COURSE

IACUC Community Member provides an in-depth look at the roles and responsibilities of the member of the IACUC who represents the community (non-scientific and/or non-affiliated member).

It provides basic information regarding the regulations for protection of animal subjects used in research, teaching, and testing. It also describes the sources and applicability of regulations governing animals in these uses.

COURSE CONTENT

- Ethics, Regulations, and the IACUC
- IACUC Basics
- Full-committee Meetings and DMR
- Other Responsibilities of IACUC Members
- Additional Tips for Community Members

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Animal Care and Use (ACU)

Post-Approval Monitoring (PAM)

This course offers training on post-approval monitoring.

ABOUT THIS COURSE

There are a variety of formal and informal ways in which PAM can be incorporated into an animal care and use programme, including audits, laboratory (lab) surveys, Institutional Animal Care and Use Committee (IACUC) protocol reviews, facility inspections, adverse event reporting, veterinary rounds, animal care staff reports to facility managers, casual lab visits, veterinary follow-up on healthcare reports, and consultations. This module focuses on developing a more formalized PAM programme beyond that which is expected by the U.S. Public Health Service Policy (PHS Policy) and Animal Welfare Regulations (AWR).

This module deals with PAM in the laboratory research setting as typically found in academic institutions and industry.

COURSE CONTENT

- Post-Approval Monitoring (PAM)

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Animal Care and Use (ACU)

Working with Mice in Research

This course provides training on working with mice in research settings.

ABOUT THIS COURSE

This course offers an introduction to working with mice in research settings including the regulatory mandates and biological features of mice.

If you are responsible for handling mice or if you must write an animal use protocol, this course will be useful by providing you with:

- Information on key regulatory issues.
- Guidance on searches for alternatives in the care and use of animals.
- Highlights of unique biological features of these animals.
- Overviews of acceptable basic methodologies.
- Requirements for supportive care procedures.

COURSE CONTENT

- Introduction to Working with Mice in Research Settings
- Research Mandates and Occupational Health Issues
- Alternatives Search, Humane Standards, Housing, Source, and Acclimation and Quarantine
- Detecting Pain and Distress, Genetics, and Biological Features
- Injections, Blood Collection, and Antibody Production
- Surgery, Supportive Care and Monitoring, Euthanasia, and References

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Animal Care and Use (ACU)

Working with Rats in Research

This course provides training on working with rats in research settings.

ABOUT THIS COURSE

This course offers an introduction to working with rats in research settings including the regulatory mandates and biological features of rats.

If you are responsible for handling rats or if you must write an animal use protocol, this course will be useful by providing you with:

- Summaries of key regulatory issues.
- Guidance on searches for alternatives in the care and use of animals.
- Highlights of unique biological features of these animals.
- Overviews of acceptable basic methodologies.
- Requirements for supportive care procedures.

COURSE CONTENT

- Introduction to Working with Rats in Research Settings
- Research Mandates and Occupational Health Issues
- Alternatives Searches, Humane Standards, Housing, and Acclimation and Quarantine
- Detecting Pain and Distress, Genetics, and Biological Features
- Injections, Blood Collection, Antibody Production, and Pain Relief
- Surgery, Supportive Care and Monitoring, Euthanasia, and References

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Animal Care and Use (ACU)

Reducing Pain and Distress in Laboratory Mice and Rats

This course offers training on post-procedure care of mice and rats in research.

ABOUT THIS COURSE

This course offers information on how to minimize pain and distress in mice and rats during and after experimental procedures. It discusses:

- Detection and monitoring signs of pain in animals
- The use of animal appearance and behaviour, physical condition, and body weight in the monitoring process
- The role of body temperature and fluid, and electrolyte balance in animal welfare
- The growth of tumors in the production of pain and distress
- The alleviation of pain and distress in the post-procedure animal

It is recommended that a learner complete the Working with the IACUC course before taking this course.

COURSE CONTENT

- Introduction to Post-Procedure Care of Mice and Rats in Research: Minimizing Pain and Distress
- Investigator Responsibility
- Minimizing Sources of Nonexperimental Variation
- Systematically Monitoring for Pain and Distress
- Detecting Clinical Signs of Pain and Distress
- Appearance and Behaviour
- Physical Exam for Clinical Condition
- Body Weight
- Fluid and Electrolyte Balance
- Body Temperature
- Tumours
- Alleviation of Pain and Distress
- Documentation of Post-Procedure Care

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Animal Care and Use (ACU)

Working with Rabbits in Research

This course provides training on working with rabbits in research settings.

ABOUT THIS COURSE

This course offers an introduction to working with rabbits in research settings including the regulatory mandates and biological features of rabbits.

If you are responsible for handling rats or if you must write an animal use protocol, this course will be useful by providing you with:

- Information on key regulatory issues.
- Guidance on searches for alternatives in the care and use of animals.
- Highlights of unique biological features of these animals.
- Overviews of acceptable basic methodologies.
- Requirements for supportive care procedures.

COURSE CONTENT

- Introduction to Working with Rabbits in Research Settings
- Research Mandates and Occupational Health Issues
- Alternatives Searches, Humane Standards, Housing, and Acclimation and Quarantine
- Detecting Pain and Distress, Genetics, and Biological Features
- Injections, Blood Collection, Antibody Production, and Pain Relief
- Surgery, Supportive Care and Monitoring, Euthanasia, and References

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Animal Care and Use (ACU)

Working with Guinea Pigs in Research

This course provides training on working with guinea pigs in research settings.

ABOUT THIS COURSE

This course offers an introduction to working with guinea pigs in research settings including the regulatory mandates and biological features of guinea pigs.

If you are responsible for handling rats or if you must write an animal use protocol, this course will be useful by providing you with:

- Information on key regulatory issues.
- Guidance on searches for alternatives in the care and use of animals.
- Highlights of unique biological features of these animals.
- Overviews of acceptable basic methodologies.
- Requirements for supportive care procedures.

COURSE CONTENT

- Introduction to Working with Guinea Pigs in Research Settings
- Taxonomy, Research Mandates, and Occupational Health Issues
- Alternatives Search, Humane Standards, Acclimation and Quarantine, Housing, and Detection of Pain and Distress
- Genetics, Biology, Injections and Blood Collection, Antibody Production, and Pain Relief
- Surgery, Supportive Care and Monitoring, Euthanasia, and References

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IMU IRDI INSTITUTE FOR RESEARCH, DEVELOPMENT & INNOVATION

Animal Care and Use (ACU)

Working with Hamsters in Research

This course provides training on working with hamsters in research settings.

ABOUT THIS COURSE

This course offers an introduction to working with hamsters in research settings including the regulatory mandates and biological features of hamsters.

If you are responsible for handling rats or if you must write an animal use protocol, this course will be useful by providing you with:

- Information on key regulatory issues.
- Guidance on searches for alternatives in the care and use of animals.
- Highlights of unique biological features of these animals.
- Overviews of acceptable basic methodologies.
- Requirements for supportive care procedures.

COURSE CONTENT

- Introduction to Working with Hamsters in Research Settings
- Research Mandates and Occupational Health Issues
- Alternatives Search, Humane Standards, Housing, Acclimation and Quarantine, Detecting Pain and Distress
- Species/Strains (ID 1992)
- Surgery, Supportive Care and Monitoring, Euthanasia, and References

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Animal Care and Use (ACU)

Wildlife Research

This course provides training for persons involved in wildlife research.

ABOUT THIS COURSE

This course describes the types of field studies, methods of animal capture, principles and methods of restraint, animal marking, animal transportation and housing, maintenance of wildlife in captivity, translocation and release, animal surgery, blood sample collection, recognition and management of pain, and euthanasia.

This course will not provide detailed information on specific methods or procedures. Other courses offering in-depth information and hands-on instruction might be available through your institutional staff or other resources.

COURSE CONTENT

- Introduction to Wildlife Research Course
- Oversight, Compliance, and Training
- Permits, Pain and Distress Categories, Transportation, and Housing
- Conducting Field Research and Teaching Studies
- Research Procedures, Recognizing and Managing Pain, and Release

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FAQs

What is IMU-CITI Programme?

The IMU-CITI Programme provides peer-reviewed, web-based educational courses in research, ethics, regulatory oversight, responsible conduct of research, research administration, and other topics. CITI courses are used worldwide by more than 2,200 organizations and more than 1 million learners around the world annually.

What are the advantages of CITI Programme?

CITI Programme is a nationally and internationally recognized expert in research ethics, compliance, and professional education. The programme is trusted by top organizations around the world and the certificate is recognized by various institutions globally.

Why does IMU recommend research students to sign up for the CITI Programme training?

By completing the CITI Programme training, we are conforming to best practices concerning the ethical and responsible conduct of research.

What does the training consist of?

The CITI Programme training consists of a number of selected courses based on the needs of our community. The courses are constructed of modules, and many different modules are available for these courses. Each module is followed by a short quiz, which must be completed before you can proceed to the next module. In addition to the required modules, supplemental modules are available. You can complete any of the supplemental modules that you wish to complete. Researchers engaged in research with particular populations and/or in particular settings may require to complete certain supplemental modules.

How do I complete the training?

The CITI Programme training is an on-line course. It can be completed from any device with internet access. You can use whichever browser you prefer. You must complete all of the quizzes for the required modules. You will not be able to proceed to the next module without completing the quiz.

You must earn an average overall of 80% on the quizzes to be certified as having completed the training. You can earn less than 80% on a specific quiz to be certified as long as your overall average is 80%.

How long does the training take to complete?

The training for each course takes approximately 2 hours. These time estimates are based on pilot testing; how long any particular individual takes to complete the course varies.

Is the CITI's Good Clinical Practice (GCP) course recognized in Malaysia?

No. Although the Good Clinical Practice (GCP) course offered under CITI Programme is recognized in many countries, Malaysia is not one of it. To conduct clinical trial, researchers are required to complete the Malaysian GCP Training and pass the Malaysia GCP examination.

Is the CITI training compulsory to all student researchers?

No. Student researchers are not required by the University to complete CITI Training. However, Principle Investigators who are mentoring student researchers may find it helpful for students to complete the training as to conform to the best practices concerning the ethical and responsible conduct of research.

FAQs

How much does it cost?

CITI Programme is designed to be a cost-effective and easy to manage training solution for individual learner. Learners (i.e IMU students or alumni) who are affiliated with IMU can take selected CITI Programme courses for a minimal annual subscription fee.

Those who are not affiliated with IMU or need additional content not offered through IMU can purchase courses as an independent learner. Course fees for independent learners start at $50 USD.

What happens after I complete a course?

Once all required course content is complete including finishing all quizzes with a passing score, you will be able to download a Completion Report and a Certificate of Completion. You will also be able to access a unique online link for that course that you can share when needed.

CITI Training Registration and Curriculum Setup Instructions

To register for a new CITI Training account:

1. Go to www.citiprogram.org and click Register to create an account.
2. Under Select Your Organization Affiliation, in the Search for Organization box, enter: International Medical University.
3. Follow the registration instructions, entering your IMU email address in the required field. You will have the option to add a second email address.
4. Upon completing registration, you will be directed to the Main Menu/My Courses page.

To add courses to your CITI Training curriculum:

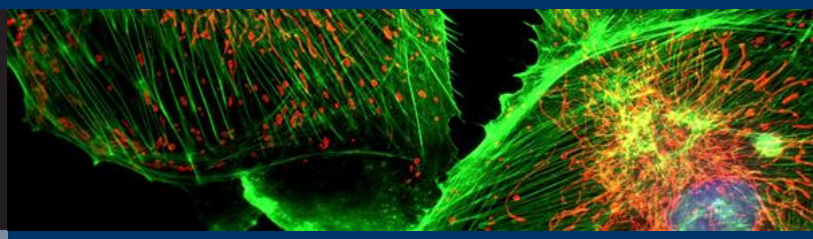
1. From Main Menu/My Courses page, under the heading My Learner Tools for International Medical University, click Add a Course.
2. Answer the setup questionnaire to select the course(s) you require.
3. Click Submit. The selected course(s) will now appear in your course list on the Main Menu/My Courses page.
4. Click on the course name to begin the course.
5. Save copies of your course completion records as documentation of your training(s).

For assistance, please contact:

Institute for Research, Development and Innovation (IRDI)
Tel : 03-2731 7044
Fax : 03-8656 7299
Email: IRDI@imu.edu.my

IRDI Collaborative Institutional Training Programme

Research Ethics and Compliance Training



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All applications and additional details will be available on the IMU Centre for Lifelong Learning website (www.imu.edu.my/icl). Please email icl@imu.edu.my with any questions or for additional information.

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