

ECTS Information Package/Course Catalogue MLO Application Profile

Issues to be resolved are highlighted in RED

Foreword

The European Credit Transfer Systems Information Package/Course Catalogue (ECTS IP/CC) MLO Application Profile has as its background the Bologna process intention of creating the European Higher Education Area by making Higher Education more comparable and compatible. The ECTS IP/CC MLO Application Profile specifies refinements to the Metadata for Learning Opportunities Information Model which facilitate representation of one of the core Bologna documents: the ECTS IP/CC.

Guidance on the structure of an ECTS IP/CC is available within Annex 2 of the Application Form (its checklist is reproduced in the Appendix to this document) designed for use by Higher Education Institutions, which have a Standard or Extended Erasmus University Charter and wish to apply for the honorary distinction of an ECTS Label. The MLO Application Profile has been designed to implement this guidance.

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Introduction

The Bologna process seeks to establish a comparable and compatible European Higher Education area. Guidance documentation created in support of that aim includes a template for describing degree programmes, course units and the Higher Education institutions that offer them, known as the ECTS IP/CC.

The MLO Information Model specifies a generic model for describing learning opportunities and the institutions that offer them. This document proposes an Application Profile of refinements to the MLO Information Model for representing the ECTS IP/CC.

Scope

This standard defines refinements to the MLO Information Model for representing the ECTS IP/CC, based on best practice guidance offered to institutions seeking the honorary distinction of an ECTS Label¹.

¹ http://ec.europa.eu/education/higher-education/doc/ectsform_en.pdf

Conformance

Conforming Instances

A *strictly conforming instance* is a set of structured information constituted only of objects and statements defined by the classes and properties of this standard and fully qualified refinements of the properties defined in this standard.

A *fully qualified refinement* is defined for the purpose of conformance as a property that explicitly extends a property defined by this standard. A fully qualified refinement must be capable of being processed according to the semantics of the property it extends. A conforming instance may contain additional objects and properties.

Conforming Bindings

A *strictly conforming binding* is constituted only of bindings to an exchange format of the classes and properties defined by this standard and fully qualified refinements of the properties defined in this standard.

A *conforming binding* may contain additional properties that do not necessarily extend or map to the properties defined in this standard.

Both strictly conforming bindings and conforming bindings must be capable of generating and validating instances that can be automatically converted to a strictly conforming instance of this standard.

Both strictly conforming bindings and conforming bindings may impose additional constraints upon the values of properties defined in this standard.

Both strictly conforming bindings and conforming bindings may impose cardinality constraints on properties defined in this standard.

Conforming Applications

A *conforming application* must have at least one of the following capabilities:

1. Generating conforming instances and/or instances conforming to a conforming binding
2. Processing conforming instances, and/or instances that conform to a conforming binding.

Normative References

[ISO 15836], Information and documentation - The Dublin Core metadata element set

Other References

[CEN-MLO] CWA 15903 Metadata for Learning Opportunities (MLO) – Advertising.
<ftp://ftp.cenorm.be/PUBLIC/CWAs/e-Europe/WS-LT/CWA15903-00-2008-Dec.pdf>

[DCMI-TERMS] Dublin Core Metadata Initiative: Terms 1.1.

<http://dublincore.org/documents/demi-terms/>

[ECTS-IPCC] http://ec.europa.eu/education/higher-education/doc/ectsform_en.pdf

[IETF-RFC2396] Uniform Resource Identifier. <http://www.ietf.org/rfc/rfc2396.txt>

[JSON] JavaScript Object Notation, <http://www.json.org/>

[W3C-RDFS] W3C Resource Description Framework Schema Language 1.0

<http://www.w3.org/TR/rdf-schema/>

[XML] Extensible Markup Language. <http://www.w3.org/XML/>

[YAML] Yaml Ain't Markup Language. <http://www.yaml.org/>

Terms and Definitions

Resource: Anything that might be identified. Familiar examples include an electronic document, an image and a service. Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Class: A group containing members that have attributes, behaviours, relationships or semantics in common. Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Property: A specific aspect, characteristic, attribute, or relation used to describe resources. Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Range: The range of values that may be used for a property. Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Domain: The class of resource to which statements using a property may be made. Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Sub Property Of: The superclass of a property. Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Literal: A literal value for a property defined within a statement; this may be a plain literal value (such as a string and language term) or a typed literal value (such as a value and data type specification identifier). Attention is drawn to [W3C-RDFS] for the detailed definition of this term.

Statement: A combination of a property and a value specified for a resource.

URI: A uniform resource identifier, as defined by [IETF-RFC2396].

Namespace

The namespace for all classes and properties defined in this standard is: **TO BE**

DEFINED

Classes

This standard does not define any new classes.

Properties

The Dublin Core Application Profile mechanism of vocabularies of sub-types is used to refine properties from the MLO Information Model to represent the structured information elements present within the ECTS IP/CC guidance.

The following properties are used as sub-types within the hierarchical refinement vocabularies illustrated in the next section.

URI: `ects:InstitutionDescription`

Label: Institution Description

Domain: `mlo:learningOpportunityProvider`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Descriptive information about an institution providing ECTS learning opportunities

Sub Property Of: `http://purl.org/dc/elements/1.1/description`

URI: `ects:InstitutionAcademicAuthorities`

Label: Institution Academic Authorities

Domain: `mlo:learningOpportunityProvider`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Descriptive information about key academic positions and contact details for people in those positions within an institution providing ECTS learning opportunities

Sub Property Of: `ects:InstitutionDescription`

URI: `ects:InstitutionAcademicCalendar`

Label: Institution Academic Calendar

Domain: `mlo:learningOpportunityProvider`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Descriptive information about the academic calendar that an institution providing ECTS learning opportunities works to: when terms or semesters start, etc

Sub Property Of: `ects:InstitutionDescription`

URI: `ects:InstitutionGeneralDescription`

Label: Institution General Description

Domain: `mlo:learningOpportunityProvider`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Summarised general description of an institution providing ECTS learning opportunities

Sub Property Of: `ects:InstitutionDescription`

URI: `ects:InstitutionAdmissionProcedures`

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Label: Institution Admission Procedures

Domain: [mlo](#):learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive overview of the admission and registration procedures operated by an institution providing ECTS learning opportunities

Sub Property Of: [ects](#):InstitutionDescription

URI: [ects](#):InstitutionMainUniversityRegulations

Label: Institution Main University Regulations

Domain: [mlo](#):learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive overview of the main university regulations operated by an institution providing ECTS learning opportunities, paying special attention to recognition procedures

Sub Property Of: [ects](#):InstitutionDescription

URI: [ects](#):GeneralInformationForStudents

Label: General Information For Students

Domain: [mlo](#):learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive, non-course-related information that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/description>

URI: [ects](#):GeneralInformationOnCostOfLiving

Label: General Information On Cost Of Living

Domain: [mlo](#):learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information that would be useful to a student assessing the local cost of living when contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: [ects](#):GeneralInformationForStudents

URI: [ects](#):GeneralInformationOnAccommodation

Label: General Information On Accommodation

Domain: [mlo](#):learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about local accommodation options that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: [ects](#):GeneralInformationForStudents

URI: [ects](#):GeneralInformationOnMeals

Label: General Information On Meals

Domain: [mlo](#):learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about local options for eating that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnMedicalFacilities

Label: General Information On Medical Facilities

Domain: **mlo**:learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about local medical facilities that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnInsurance

Label: General Information On Insurance

Domain: **mlo**:learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about insurance (recommended medical insurance, contents insurance, etc) that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnFinancialSupport

Label: General Information On Financial Support

Domain: **mlo**:learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about mechanisms for financial support that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnStudentAffairsOffice

Label: General Information On Student Affairs Office

Domain: **mlo**:learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the student affairs office and its services that would be useful to a student contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnStudyFacilities

Label: General Information On Study Facilities

Domain: **mlo**:learningOpportunityProvider

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the study facilities available at an institution providing ECTS learning opportunities

Sub Property Of: **ects**:GeneralInformationForStudents

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URI: **ects**:GeneralInformationOnInternationalProgrammes
Label: General Information On International Programmes
Domain: **mlo**:learningOpportunityProvider
Range: <http://www.w3.org/2000/01/rdf-schema#Resource>
Definition: Descriptive information about programmes for international students available at an institution providing ECTS learning opportunities
Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationForMobileStudents
Label: General Information For Mobile Students
Domain: **mlo**:learningOpportunityProvider
Range: <http://www.w3.org/2000/01/rdf-schema#Resource>
Definition: Descriptive, practical information that would be useful for mobile students contemplating study at an institution providing ECTS learning opportunities
Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnLanguageCourses
Label: General Information On Language Courses
Domain: **mlo**:learningOpportunityProvider
Range: <http://www.w3.org/2000/01/rdf-schema#Resource>
Definition: Descriptive information about language courses that would be available to students contemplating study at an institution providing ECTS learning opportunities
Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnInternships
Label: General Information On Internships
Domain: **mlo**:learningOpportunityProvider
Range: <http://www.w3.org/2000/01/rdf-schema#Resource>
Definition: Descriptive information about internship opportunities that would be available to students contemplating study at an institution providing ECTS learning opportunities
Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnSportsFacilities
Label: General Information On Sports Facilities
Domain: **mlo**:learningOpportunityProvider
Range: <http://www.w3.org/2000/01/rdf-schema#Resource>
Definition: Descriptive information about sports facilities that would be available to students contemplating study at an institution providing ECTS learning opportunities
Sub Property Of: **ects**:GeneralInformationForStudents

URI: **ects**:GeneralInformationOnExtraMuralAndLeisureFacilities
Label: General Information On Extra Mural and Leisure Facilities
Domain: **mlo**:learningOpportunityProvider
Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about extra mural and leisure facilities that would be available to students contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: `ects:GeneralInformationForStudents`

URI: `ects:GeneralInformationOnStudentAssociations`

Label: General Information On Student Associations

Domain: `mlo:learningOpportunityProvider`

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about student associations that would be available to students contemplating study at an institution providing ECTS learning opportunities

Sub Property Of: `ects:GeneralInformationForStudents`

URI: `ects:DegreeProgrammeInformation`

Label: Degree Programme Information

Domain: `mlo:learningOpportunitySpecification`

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about a Degree Programme that would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: <http://purl.org/dc/elements/1.1/description>

URI: `ects:DegreeProgrammeEducationAndProfessionalGoals`

Label: Degree Programme Education And Professional Goals

Domain: `mlo:learningOpportunitySpecification`

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the educational and professional goals of a Degree Programme that would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: `ects:DegreeProgrammeInformation`

URI: `ects:DegreeProgrammeEducationAndProfessionalGoals`

Label: Degree Programme Education And Professional Goals

Domain: `mlo:learningOpportunitySpecification`

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the educational and professional goals of a Degree Programme that would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: `ects:DegreeProgrammeInformation`

URI: `ects:DegreeProgrammeAccessToFurtherStudies`

Label: Degree Programme Access To Further Studies

Domain: `mlo:learningOpportunitySpecification`

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about options for access to further study that would arise from studying a Degree Programme, which would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: **ects**:DegreeProgrammeInformation

URI: **ects**:DegreeProgrammeStructureDiagram

Label: Degree Programme Structure Diagram

Domain: **mlo**:learningOpportunitySpecification

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive, diagrammatic information about the structure of a Degree Programme showing the breakdown of ECTS credits (60 per year), which would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: **ects**:DegreeProgrammeInformation

URI: **ects**:CourseUnitInformation

Label: Course Unit Information

Domain: **mlo**:learningOpportunitySpecification

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about a Course Unit that would be useful to students contemplating study of that course unit under the ECTS scheme

Sub Property Of: <http://purl.org/dc/elements/1.1/description>

URI: **ects**:CourseUnitContent

Label: Course Unit Content

Domain: **mlo**:learningOpportunitySpecification

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the course content of a Course Unit that would be useful to students contemplating study of that course unit under the ECTS scheme

Sub Property Of: **ects**:CourseUnitInformation

URI: **ects**:CourseUnitRecommendedReading

Label: Course Unit Recommended Reading

Domain: **mlo**:learningOpportunityInstance

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the recommended reading for a Course Unit that would be useful to students contemplating study of that course unit under the ECTS scheme

Sub Property Of: **ects**:CourseUnitInformation

URI: **ects**:CourseUnitTeachingMethods

Label: Course Unit Teaching Methods

Domain: **mlo**:learningOpportunityInstance

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Descriptive information about the teaching methods employed on a Course Unit that would be useful to students contemplating study of that course unit under the ECTS scheme

Sub Property Of: **ects**:CourseUnitInformation

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URI: [ects:InstitutionType](#)

Label: Institution Type

Domain: [mlo:learningOpportunityProvider](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Literal>

Definition: Classifier for the type of institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/type>

URI: [ects:InstitutionStatus](#)

Label: Institution Status

Domain: [mlo:learningOpportunityProvider](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Literal>

Definition: Classifier for the status of an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/type>

URI: [ects:LearningOpportunityType](#)

Label: Learning Opportunity Type

Domain: [mlo:learningOpportunitySpecification](#)

Range: [ects:LearningOpportunityTypes](#)

Definition: Classifier for the type of ECTS learning opportunity provided by an institution, using values defined by the enumerated list [ects:LearningOpportunityTypes](#)

- DegreeProgramme
- CourseUnit

Sub Property Of: <http://purl.org/dc/elements/1.1/type>

URI: [ects:CourseUnitType](#)

Label: Course Unit Type

Domain: [mlo:learningOpportunitySpecification](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Literal>

Definition: Classifier for the type of Course Unit offered by an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/type>

URI: [ects:InstitutionalEctsCoordinator](#)

Label: Institutional Ects Coordinator

Domain: [mlo:learningOpportunityProvider](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Details of the designated institutional ECTS coordinator for an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/contributor>

URI: [ects:DepartmentalEctsCoordinator](#)

Label: Departmental Ects Coordinator

Domain: [mlo:learningOpportunityInstance](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

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Definition: Details of the designated departmental ECTS coordinator for a degree programme within an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/contributor>

URI: [ects:Lecturer](#)

Label: Lecturer

Domain: [mlo:learningOpportunityInstance](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Details of a lecturer contributing to course unit within an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/contributor>

URI: [ects:InstitutionName](#)

Label: InstitutionName

Domain: [mlo:learningOpportunityProvider](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Official title of an institution providing ECTS learning opportunities

Sub Property Of: <http://purl.org/dc/elements/1.1/title>

URI: [ects:DegreeProgrammeTitle](#)

Label: Degree Programme Title

Domain: [mlo:learningOpportunitySpecification](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Title of an ECTS Degree Programme

Sub Property Of: <http://purl.org/dc/elements/1.1/title>

URI: [ects:CourseUnitTitle](#)

Label: Course Unit Title

Domain: [mlo:learningOpportunitySpecification](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Title of an ECTS Course Unit

Sub Property Of: <http://purl.org/dc/elements/1.1/title>

URI: [ects:CourseUnitCode](#)

Label: Course Unit Code

Domain: [mlo:learningOpportunitySpecification](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Public identifier for an ECTS Course Unit

Sub Property Of: <http://purl.org/dc/elements/1.1/identifier>

URI: [ects:InstitutionAddress](#)

Label: Institution Address

Domain: [mlo:learningOpportunityProvider](#)

Range: <http://www.w3.org/2000/01/rdf-schema#Resource>

Definition: Main postal address of an institution providing ECTS learning opportunities

Sub Property Of: [mlo:location](#)

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URI: `ects:CourseUnitTermPattern`

Label: Course Unit Term Pattern

Domain: `mlo:learningOpportunityInstance`

Range: `http://www.w3.org/2000/01/rdf-schema#Literal`

Definition: Offering pattern for an instance of ECTS Course Unit, using values from the enumerated list `ects:CourseUnitTermPatterns`

- Semester
- Trimester

Sub Property Of: `mlo:engagement`

URI: `ects:CourseUnitLevel`

Label: Course Unit Level

Domain: `mlo:learningOpportunitySpecification`

Range: `http://www.w3.org/2000/01/rdf-schema#Literal`

Definition: An account of the educational level of an ECTS Course Unit

Sub Property Of: `mlo:level`

URI: `ects:CourseUnitYearOfStudy`

Label: Course Unit Year Of Study

Domain: `mlo:learningOpportunitySpecification`

Range: `http://www.w3.org/2000/01/rdf-schema#Literal`

Definition: An account of the year of study in which an ECTS Course Unit appears

Sub Property Of: `mlo:level`

URI: `ects:CourseUnitLearningOutcome`

Label: Course Unit Learning Outcome

Domain: `mlo:learningOpportunityInstance`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Description of intended learning outcome of an ECTS Course Unit

Sub Property Of: `mlo:objective`

URI: `ects:DegreeProgrammeFinalExamination`

Label: Degree Programme Final Examination

Domain: `mlo:learningOpportunityInstance`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Descriptive information about the nature of any final examinations within a Degree Programme, which would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: `mlo:assessment`

URI: `ects:DegreeProgrammeExaminationAndAssessmentRegulations`

Label: Degree Programme Examination And Assessment Regulations

Domain: `mlo:learningOpportunityInstance`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Descriptive information about a Degree Programme's examination and assessment regulations, which would be useful to students contemplating study of that programme under the ECTS scheme

Sub Property Of: `mlo:assessment`

URI: `ects:CourseUnitAssessmentMethods`

Label: Course Unit Assessment Methods

Domain: `mlo:learningOpportunityInstance`

Range: `http://www.w3.org/2000/01/rdf-schema#Resource`

Definition: Descriptive information about the assessment methods employed on a Course Unit that would be useful to students contemplating study of that course unit under the ECTS scheme

Sub Property Of: `mlo:assessment`

Property Refinement Hierarchy

- <http://purl.org/dc/elements/1.1/description>
 - ↳ `ects:InstitutionDescription`
 - ↳ `ects:InstitutionAcademicCalendar`
 - ↳ `ects:InstitutionAcademicAuthorities`
 - ↳ `ects:InstitutionGeneralDescription`
 - ↳ `ects:InstitutionAdmissionProcedures`
 - ↳ `ects:InstitutionMainUniversityRegulations`
 - ↳ `ects:GeneralInformationForStudents`
 - ↳ `ects:GeneralInformationOnCostOfLiving`
 - ↳ `ects:GeneralInformationOnAccommodation`
 - ↳ `ects:GeneralInformationOnMeals`
 - ↳ `ects:GeneralInformationOnMedicalFacilities`
 - ↳ `ects:GeneralInformationOnFacilitiesForStudentsWithSpecialNeeds`
 - ↳ `ects:GeneralInformationOnInsurance`
 - ↳ `ects:GeneralInformationOnFinancialSupportForStudents`
 - ↳ `ects:GeneralInformationOnStudentAffairsOffice`
 - ↳ `ects:GeneralInformationOnStudyFacilities`
 - ↳ `ects:GeneralInformationOnInternationalProgrammes`
 - ↳ `ects:GeneralInformationForMobileStudents`
 - ↳ `ects:GeneralInformationOnLanguageCourses`
 - ↳ `ects:GeneralInformationOnInternships`
 - ↳ `ects:GeneralInformationOnSportsFacilities`
 - ↳ `ects:GeneralInformationOnExtraMuralAndLeisureFacilities`
 - ↳ `ects:GeneralInformationOnStudentAssociations`
 - ↳ `ects:DegreeProgrammeDescription`
 - ↳ `ects:DegreeProgrammeEducationAndProfessionalGoals`
 - ↳ `ects:DegreeProgrammeAccessToFurtherStudies`
 - ↳ `ects:DegreeProgrammeStructureDiagram`
 - ↳ `ects:CourseUnitDescription`
 - ↳ `ects:CourseUnitContent`

- ↳ **ects**:CourseUnitRecommendedReading
- ↳ **ects**:CourseUnitTeachingMethods
- <http://purl.org/dc/elements/1.1/type>
 - ↳ **ects**:InstitutionType
 - ↳ **ects**:InstitutionStatus
 - ↳ **ects**:LearningOpportunityType
 - ↳ **ects**:CourseUnitType
- <http://purl.org/dc/elements/1.1/contributor>
 - ↳ **ects**:InstitutionalEctsCoordinator
 - ↳ **ects**:DepartmentalEctsCoordinator
 - ↳ **ects**:Lecturer
- <http://purl.org/dc/elements/1.1/title>
 - ↳ **ects**:InstitutionName
 - ↳ **ects**:DegreeProgrammeTitle
 - ↳ **ects**:CourseUnitTitle
- <http://purl.org/dc/elements/1.1/identifier>
 - ↳ **ects**:CourseUnitCode
- **mlo**:location
 - ↳ **ects**:InstitutionAddress
- **mlo**:engagement
 - ↳ **ects**:CourseUnitTermPattern
- **mlo**:level
 - ↳ **ects**:CourseUnitLevel
 - ↳ **ects**:CourseUnitYearOfStudy
- **mlo**:objective
 - ↳ **ects**:CourseUnitLearningOutcome
 - ↳ **ects**:CourseUnitCompetence
- **mlo**:assessment
 - ↳ **ects**:DegreeProgrammeFinalExamination
 - ↳ **ects**:DegreeProgrammeExaminationAndAssessmentRegulations
 - ↳ **ects**:CourseUnitAssessmentMethods

Controlled Lists

The following controlled lists are defined as part of this standard.

URI **ects**:LearningOpportunityTypes

Controlled vocabulary values:

- DegreeProgramme
- CourseUnit

URI **ects**:CourseUnitTermPatterns

Controlled vocabulary values:

- Semester
- Trimester

Recommended Representation of ECTS IP/CC

Appendix A details the checklist for the ECTS IP/CC published by ec.europa.eu. The table below recommends how each item on that checklist should be represented using the MLO ECTS IP/CC Application Profile defined by this document.

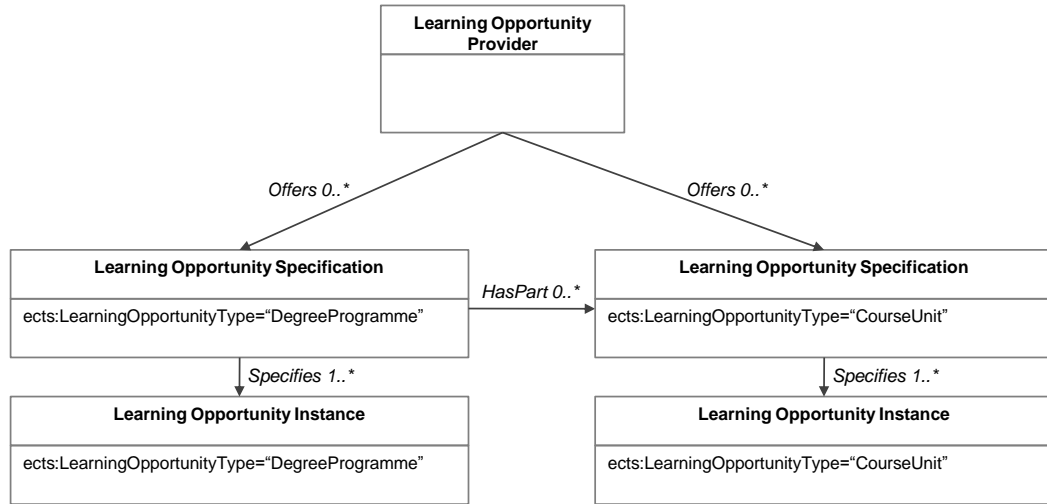
Checklist Item	Class	Property
Information On the Institution		
Name	mlo:learningOpportunityProvider	ects:InstitutionName
Address	mlo:learningOpportunityProvider	ects:InstitutionAddress
Academic Calendar	mlo:learningOpportunityProvider	ects:InstitutionAcademicCalendar
General Description of the Institution, including	mlo:learningOpportunityProvider	ects:InstitutionGeneralDescription
Institution Type	mlo:learningOpportunityProvider	ects:InstitutionType
Institution Status	mlo:learningOpportunityProvider	ects:InstitutionStatus
List of degree programmes	mlo:learningOpportunitySpecification	ects:DegreeProgrammeTitle
Admission/registration procedures	mlo:learningOpportunityProvider	ects:InstitutionAdmissionProcedures
Main university regulations	mlo:learningOpportunityProvider	ects:InstitutionMainUniversityRegulations
ECTS institutional coordinator	mlo:learningOpportunityProvider	ects:InstitutionalEctsCoordinator
Information on degree programmes		
General Description		
Qualification awarded	mlo:learningOpportunitySpecification	mlo:qualification
Admission requirements	mlo:learningOpportunityInstance	mlo:prerequisite
Education and professional goals	mlo:learningOpportunitySpecification	ects:DegreeProgrammeEducationAndProfessionalGoals
Access to further studies	mlo:learningOpportunitySpecification	ects:DegreeProgrammeAccessToFurtherStudies
Course structure diagram with ECTS credits (60 per year)	mlo:learningOpportunitySpecification	ects:DegreeProgrammeStructureDiagram
Final examination	mlo:learningOpportunityInstance	ects:DegreeProgrammeFinalExamination
Examination and assessment regulations	mlo:learningOpportunityInstance	ects:DegreeProgrammeExaminationAndAssessmentRegulations
ECTS departmental coordinator	mlo:learningOpportunityInstance	ects:DepartmentalEctsCoordinator
Description of the individual course units		
Course title	mlo:learningOpportunitySpecification	ects:CourseUnitTitle
Course code	mlo:learningOpportunitySpecification	ects:CourseUnitCode
Type of course	mlo:learningOpportunitySpecification	ects:CourseUnitType
Level of course	mlo:learningOpportunitySpecification	ects:CourseUnitLevel
Year of study	mlo:learningOpportunitySpecification	ects:CourseUnitYearOfStudy
Semester/trimester	mlo:learningOpportunityInstance	ects:CourseUnitTermPattern
Number of ECTS credits	mlo:learningOpportunitySpecification	mlo:Credit – see draft CWA on Credit Information Model
Name of lecturer	mlo:learningOpportunityInstance	ects:Lecturer

Proposal for CWA for an ECTS IP/CC Application Profile of MLO

Objectives of the course	mlo:learningOpportunityInstance	mlo:objective Optionally, extra detail could be provided using: ects:CourseUnitLearningOutcome and ects:CourseUnitCompetence
Prerequisites	mlo:learningOpportunityInstance	mlo:prerequisite
Course contents	mlo:learningOpportunitySpecification	ects:CourseUnitContent
Recommended reading	mlo:learningOpportunityInstance	ects:CourseUnitRecommendedReading
Teaching methods	mlo:learningOpportunityInstance	ects:CourseUnitTeachingMethods
Assessment methods	mlo:learningOpportunityInstance	ects:CourseUnitAssessmentMethods
Language of instruction	mlo:learningOpportunityInstance	mlo:languageOfInstruction
General information for students		
Cost of living	mlo:learningOpportunityProvider	ects:GeneralInformationOnCostOfLiving
Accommodation	mlo:learningOpportunityProvider	ects:GeneralInformationOnAccommodation
Meals	mlo:learningOpportunityProvider	ects:GeneralInformationOnMeals
Medical facilities	mlo:learningOpportunityProvider	ects:GeneralInformationOnMedicalFacilities
Facilities for special needs students	mlo:learningOpportunityProvider	ects:GeneralInformationForStudentsWithSpecialNeeds
Insurance	mlo:learningOpportunityProvider	ects:GeneralInformationOnInsurance
Financial support for students	mlo:learningOpportunityProvider	ects:GeneralInformationOnFinancialSupport
Student affairs office	mlo:learningOpportunityProvider	ects:GeneralInformationOnStudentAffairsOffice
International programmes	mlo:learningOpportunityProvider	ects:GeneralInformationOnInternationalProgrammes
Practical information for mobile students	mlo:learningOpportunityProvider	ects:GeneralInformationForMobileStudents
Language courses	mlo:learningOpportunityProvider	ects:GeneralInformationOnLanguageCourses
Internships	mlo:learningOpportunityProvider	ects:GeneralInformationOnInternships
Sports facilities	mlo:learningOpportunityProvider	ects:GeneralInformationOnSportsFacilities
Extra-mural and leisure facilities	mlo:learningOpportunityProvider	ects:GeneralInformationOnExtraMuralAndLeisureFacilities
Student associations	mlo:learningOpportunityProvider	ects:GeneralInformationOnStudentAssociations

Diagrammatic Representations

Recommended class relationships for MLO ECTS IP/CC Application Profile:

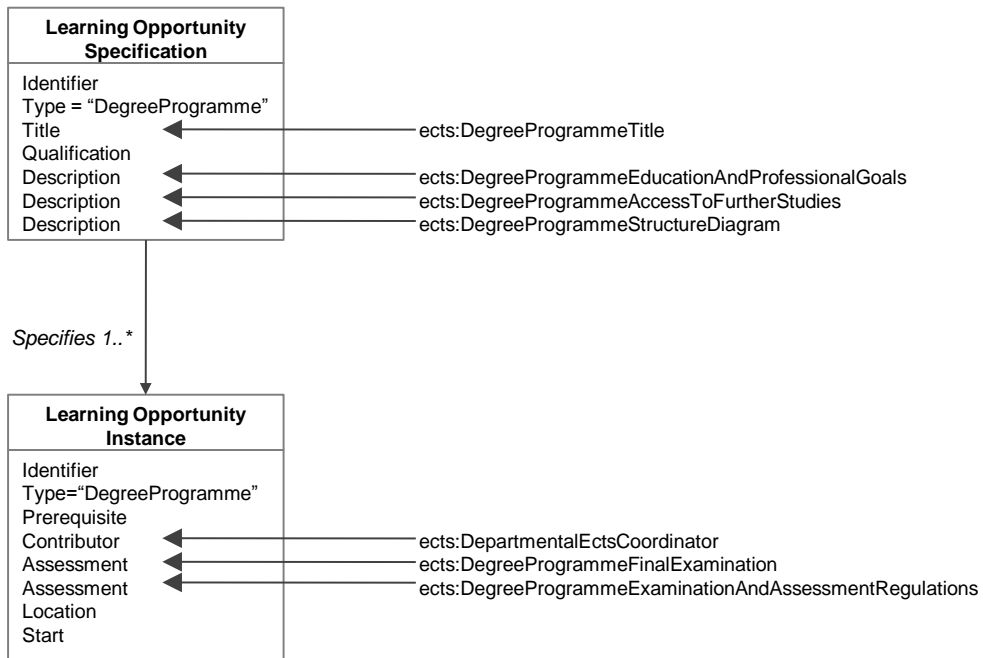


Recommended use of the MLO ECTS IP/CC Application Profile for representing Institutions offering ECTS learning opportunities:

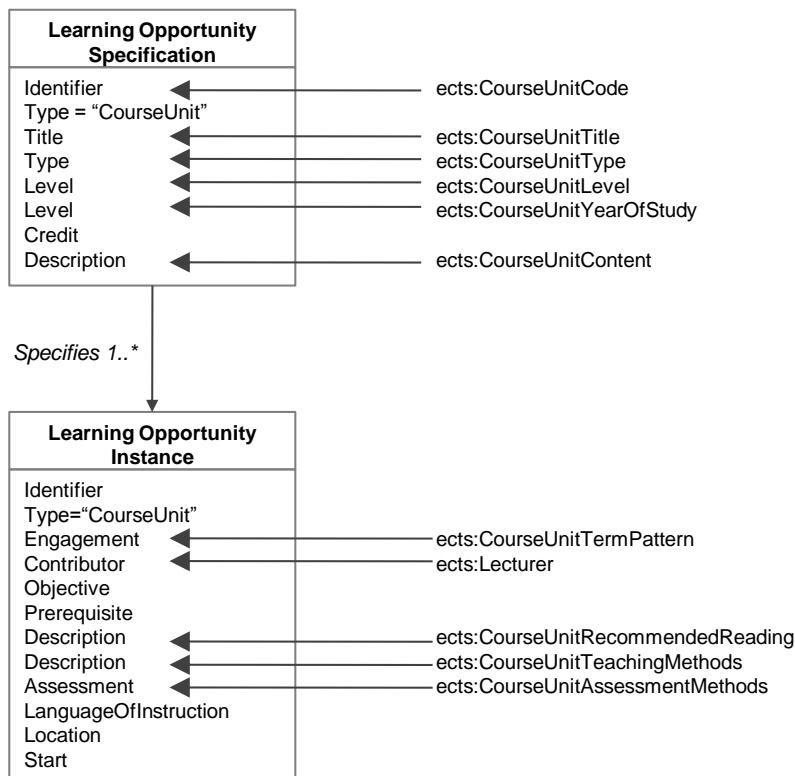
Learning Opportunity Provider	
Identifier	
Title	← ects:InstitutionName
Location	← ects:InstitutionAddress
Description	← ects:InstitutionAcademicCalendar
Description	← ects:InstitutionAcademicAuthorities
Description	← ects:InstitutionGeneralDescription
Description	← ects:InstitutionAdmissionProcedures
Description	← ects:InstitutionMainUniversityRegulations
Contributor	← ects:InstitutionalEctsCoordinator
Description	← ects:GeneralInformationOnCostOfLiving
Description	← ects:GeneralInformationOnAccommodation
Description	← ects:GeneralInformationOnMeals
Description	← ects:GeneralInformationOnMedicalFacilities
Description	← ects:GeneralInformationOnFacilitiesForStudentsWithSpecialNeeds
Description	← ects:GeneralInformationOnInsurance
Description	← ects:GeneralInformationOnFinancialSupport
Description	← ects:GeneralInformationOnStudentAffairsOffice
Description	← ects:GeneralInformationOnStudyFacilities
Description	← ects:GeneralInformationOnInternationalProgrammes
Description	← ects:GeneralInformationForMobileStudents
Description	← ects:GeneralInformationOnLanguageCourses
Description	← ects:GeneralInformationOnInternships
Description	← ects:GeneralInformationOnSportsFacilities
Description	← ects:GeneralInformationOnExtraMuralAndLeisureFacilities
Description	← ects:GeneralInformationOnStudentAssociations

Proposal for CWA for an ECTS IP/CC Application Profile of MLO

Recommended use of the MLO ECTS IP/CC Application Profile for representing ECTS Degree Programmes



Recommended use of the MLO ECTS IP/CC Application Profile for representing ECTS Course Units



Appendix A: Checklist for the ECTS Information Package / Course Catalogue

Information on the Institution

- Name and address
- Academic calendar
- Academic authorities
- General description of the institution (including type and status)
- List of degree programmes offered
- Admission/registration procedures
- Main university regulations (notably recognition procedures)
- ECTS institutional co-ordinator

Information on degree programmes

General description

- Qualification awarded
- Admission requirements
- Educational and professional goals
- Access to further studies
- Course structure diagram with ECTS credits (60 per year)
- Final examination
- Examination and assessment regulations
- ECTS departmental co-ordinator

Description of individual course units

- Course title
- Course code
- Type of course
- Level of course
- Year of study
- Semester/trimester
- Number of ECTS credits allocated (based on the student workload required to achieve the objectives or learning outcomes)
- Name of lecturer
- Objective of the course (preferably expressed in terms of learning outcomes and competences)
- Prerequisites
- Course contents
- Recommended reading
- Teaching methods
- Assessment methods
- Language of instruction

General information for students

- Cost of living
- Accommodation
- Meals
- Medical facilities
- Facilities for special needs students
- Insurance
- Financial support for students
- Student affairs office
- Study facilities
- International programmes
- Practical information for mobile students

Proposal for CWA for an ECTS IP/CC Application Profile of MLO

- Language courses
- Internships
- Sports facilities
- Extra-mural and leisure facilities
- Student associations