

# Appendix D

## File of instances

This section presents a file which includes instances of the OWL model of Appendix C.

```
<?xml version="1.0"?>
<rdf:RDF xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:xml="http://www.w3.org/XML/1998/namespace"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:or="http://www.utm.mx/~sigep/ recursos/ontologyofrecords.xhtml"
xmlns:model="http://localhost/sistor/modelo.owl#"
xml:base="http://localhost/sistor/modelo.owl#">
<owl:Ontology xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
rdf:about="http://localhost/sistor/instancias.owl">
  <owl:imports rdf:resource="http://localhost/sistor/modelo.owl"/>
  <rdfs:comment xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
    Instances of an ontology of records based on the
```

```
    OWL model Version 2.11
  </rdfs:comment>
</owl:Ontology>

<or:algorithm rdf:ID="record1">
  <model:dataPropertyclustersupport>30
  </model:dataPropertyclustersupport>
  <model:dataPropertyglobalsupport>25
  </model:dataPropertyglobalsupport>
  <model:dataPropertyname>FIHC</model:dataPropertyname>
</or:algorithm>

<or:cluster rdf:ID="record2">
  <or:label> Physics </or:label>
  <or:level> 1 </or:level>
  <model:hasrecord rdf:resource="#record3"/>
  <model:hasrecord rdf:resource="#record4"/>
  <model:hasrecord rdf:resource="#record5"/>
</or:cluster>

<or:cluster rdf:ID="record6">
  <or:label> Mathematics </or:label>
  <or:level> 1 </or:level>
  <model:hasrecord rdf:resource="#record7"/>
  <model:hasrecord rdf:resource="#record8"/>
  <model:hasrecord rdf:resource="#record9"/>
</or:cluster>
```

```
<or:cluster rdf:ID="record10">
  <or:label> Applied mathematics </or:label>
  <or:level> 2 </or:level>
  <model:hasrecord rdf:resource="#record11"/>
</or:cluster>

<or:cluster rdf:ID="record12">
  <or:label> Philosophy </or:label>
  <or:level> 1 </or:level>
  <model:hasrecord rdf:resource="#record13"/>
</or:cluster>

<or:ontologyofrecords rdf:ID="record14">
  <xsi:schemaLocation>
    http://www.utm.mx/~sigep/records/ontologyofrecords.xhtml
    http://www.utm.mx/~sigep/records/ontologyofrecordsv3a.xsd
  </xsi:schemaLocation>
  <model:dataPropertydate>2006-04-21</model:dataPropertydate>
  <model:hasalgorithm rdf:resource="#record1"/>
  <model:hascluster rdf:resource="#record2"/>
  <model:hascluster rdf:resource="#record6"/>
  <model:hascluster rdf:resource="#record10"/>
  <model:hascluster rdf:resource="#record12"/>
</or:ontologyofrecords>

<or:record rdf:ID="record3">
```

```
<or:title> Physics I </or:title>
<or:subject> Physics </or:subject>
<or:description> Abstract </or:description>
<or:identifier> oai:libroUTM:1 </or:identifier>
</or:record>
```

```
<or:record rdf:ID="record4">
  <or:title> Molecular Physics </or:title>
  <or:subject> Molecular Physics </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:2 </or:identifier>
</or:record>
```

```
<or:record rdf:ID="record5">
  <or:title> Principles of Molecular Physics </or:title>
  <or:subject> Principles of Molecular Physics </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:3 </or:identifier>
</or:record>
```

```
<or:record rdf:ID="record7">
  <or:title> Mathematics </or:title>
  <or:subject> Mathematics </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:4 </or:identifier>
</or:record>
```

```
<or:record rdf:ID="record8">
  <or:title> Calculus I </or:title>
  <or:subject> Calculus </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:7 </or:identifier>
</or:record>

<or:record rdf:ID="record9">
  <or:title> Diferential Calculus </or:title>
  <or:subject> Diferential Calculus </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:8 </or:identifier>
</or:record>

<or:record rdf:ID="record11">
  <or:title> Applied mathematics with examples </or:title>
  <or:subject> Applied mathematics with examples </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:5 </or:identifier>
</or:record>

<or:record rdf:ID="record13">
  <or:title> Philosophy </or:title>
  <or:subject> Philosophy </or:subject>
  <or:description> </or:description>
  <or:identifier> oai:libroUTM:10 </or:identifier>
</or:record>
```

</rdf:RDF>