# Purpose

Intermediate Education Ontology ORSD

The purpose of the Intermediate Education ontology is to provide students with knowledge representation of their intermediate degree programs.

# Scope

* + Intermediate Education ontology is specific to the Intermediate level (11th and 12th classes). The ontology includes knowledge related to 2 year Intermediate degree programs only.
  + It does not include knowledge about other levels’ (Primary, Secondary, A/O Levels, and Higher).
  + It limits to Intermediate Education in the Punjab province of Pakistan (students under BISE-Punjab).

# Implementation Language

Owl language will be used to implement the ontology.

# Intended Users:

**Sr. No. User**

*User 1:* Students

*User 2:* Parents

*User 3:* Teachers

*User 4:* Colleges’ staff

*User 5:* Punjab Text and Curriculum Board

*User 6:* Punjab Higher Education Department

*User 7:* Board of Intermediate and Secondary Education

# Intended Uses:

**Sr. No. Use**

*Use 1:* To get information about admissions.

*Use 2:* To guide students about choices of degrees. *Use 3:* To guide students about board registration. *Use 4:* To guide students in academics.

*Use 5:* To guide students about scholarships/facilities. *Use 6:* To guide students about the result announcement. *Use 7:* To guide the students about program selection.

# Ontology Requirements

* 1. **Non-Functional Requirements**
     + **Performance**: Ontology should meet all the aspects of Intermediate Education (as per the defined scope).
     + **Safety**: We will keep an updated copy on Github that will serve as a backup in case of any loss.
     + **Security**: As we will publish ontology on Github with a license, copyrights will be defined in the license.

# Functional Requirements (Competency Question Groups) G1: Admission

**ID Question**

G1-A: What are the attributes in the admission form?

G1-B: Which institutes offer the intended program? G1-C: What is the duration of Inter program?

G1-D: Which/How many programs are available for Inter students? G1-E: Which degree is prerequisite for intermediate?

G1-F: How much marks in previous degree, are necessary to get admission? G1-G: What is admissions’ opening date in each college?

G1-H: What is admissions’ closing date in each college?

# G2: Facilities & Non-Academic Aspects ID Question

G2-A: Which facilities are given to students in college? G2-B: Which scholarships are available?

G2-C: Which sources will be used to acquire scholarships? G2-D: On what basis scholarships are awarded to students? G2-E: Which co-curricular functions take place at colleges? G2-F: What is procedure to migrate from a college to other? G2-G: What is the summer and winter vacations’ duration?

# G3: Boards

**ID Question**

G3-A: Which boards in Punjab are offering the Intermediate Programs? G3-B: Which attributes are there in the board registration form?

G3-C: How many students are registered in each board?

# G4: Colleges

**ID Question**

G4-A: When are Intermediate programs’ classes starting? G4-B: When Intermediate programs’ classes End?

G4-C: What is college class timing?

G4-D: How many subjects are taught in a day?

G4-E: What is colleges’ procedure to prepare the students for board exams?

# G5: Curriculum (Academics) ID Question

G5-A: What are the contents of the Syllabus for 1st and 2nd years?

G5-B: Who is responsible for approving the subjects for intermediate?

G5-C: Who is responsible for preparing and approving the syllabus for intermediate? G5-D: Which subjects are there in each inter-program?

G5-E: Which subjects are elective?

G5-F: Which subjects are compulsory?

G5-G: What are language choices for students?

# G6: Examination ID Question

G6-A: Who is responsible to conduct the examinations in Punjab? G6-B: Who is responsible for deciding the subjects for intermediate? G6-C: Who issues roll no slip?

G6-D: What attributes does roll number slip include? G6-E: Which subjects’ practical is taken?

G6-F: What is exams starting date? G6-G: What is exams ending date?

G6-H: Which subjects’ exams are on same date?

# G7: Result

**ID Question**

G7-A: Who/when announces the result?

G7-B: What attributes does the result sheet include?

G7-C: What are the passing criteria for students of intermediate? G7-D: What are the fail criteria for students of intermediate?

# G8: Fee

**ID Question**

G8-A: What is 2 year fee in college?

G8-B: Which college has highest/lowest fee?

G8-C: How much marks required to get concession?

G8-D: How much concession is given?

# Pre Glossary of Terms

Education, intermediate, program, examination, practical, scholarships, college, admission, vacations, subjects, compulsory, elective, roll number slip, pass, fail, result, board, BISE, PTCB, PEB, syllabus, registration, medium.