

“Digital eksamen” – digital exam

The information gathered for the digital exam systems are fetched from an administrative application called “FS”. FS is a student information system commonly used in Norway. Most HEI’s (Higher Education Institution) use this system (51 in total). The data that is exported from this system does contain some “native language” that we will try to explain in this document, along with the format of the data exported.

In the model system that holds the exam information (FS), we are not using the word “exam”, as this often is associated with a written or oral examination in a classroom over a few hours. Instead we use the word “assessment” as this then opens the field up to all sort of ways to assess the student: Normal exams, practical work, lab work, thesis and so on.

To allow for a model that is as flexible and robust as possible, FS allows the individual HEI’s to structure their own type of assessments. This is solved through something called an “assessment combination”, which is an object that can refer to itself, and in this way construct a hierarchy of combinations, for example: Some courses have a combination of assessments that lead up to a grade: An oral exam, a written exam and two obligatory papers during the semester. To construct this complex assessment, the HEI will construct a tree of assessment combinations to describe the whole assessment. These trees can be reused year after year. In this way, if new types of assessments or demands are introduced, FS does not need to be reprogrammed, the HEI’s simply construct new trees of assessment combinations. To make a tree “concrete”, meaning assigning a date to it, an “assessment unit” is added. This unit contains the semester-specific data: Time of examination, place, deadlines etc... It is the assessment unit that is exported to the digital exam system, but with some general information from the assessment combination.

Documentation of the “Digital eksamen” services

There are two services; one that responds with a list of assessment units (most often traditional exams, but can be other assessment types as well); and one that responds with elaborate information about one particular assessment unit.

Get list of assessments

The service for fetching a list of exams is described in Agora (the Uninett platform). The response is described in this json schema: <http://fsws.usit.no/schemas/digeks/liste.json>

Schema fields

Norwegian name	English description	e.g.	Note
emnekode	Course module code	AB-201	
emnetittel	Course module title	Terrestrial arctic biology	
id	Identifier	MTg1fHxBTExCQU NIRUxPUnx8MXx8T 1BQfHwyMDE0fHx Ww4VS	A composed ID unique for this course. Input value of the other service.
Institusjonsnr	Institution number	185	

Norwegian name	English description	e.g.	Note
stedkode	Placement code	185_15_00_00	Identifier of the institution placement. Institution no. _ Faculty no. _ Institute no. _ Group no.
klagefrist	Complaint deadline	2014-08-20	yyyy-MM-dd
sensurfrist	Censoring deadline	2014-08-05	yyyy-MM-dd
slutt	End of exam date and time	2014-07-21T15:00+0100	If time is not given, it is set to 00:00.
Start	Exam date and time	2014-05-30T00:00+0100	If time is not given, it is set to 00:00.
Versjonskode	Version code	1	A course may exist in several versions
Vurderingsform	Assessment form for this assessment	Skriftlig gruppeoppgave	Code for the assessment form. Common types: <ul style="list-style-type: none"> - "Hjemmeeksamen" - "Semesteroppgave" - "Individuell muntlig prøve" - "Individuell skriftlig oppgave" - "Individuell skriftlig prøve" - "Skriftlig gruppeoppgave" - "Praksis" - "Individuell muntlig presentasjon" - "Praktisk eksamen" - "Klinisk eksamen" - "Deltagelse" - "Øving" - "Ikke oppgitt" - "Rapport" - "Mappeeksamen" The institution may also apply their own codes.
Vurderingsordning	Assessment type for the course modules total assessment	S	Code for the modules total assessment, usually a combination of the codes from "vurderingsform".
vurdkombtittel	Assessment combination title	Written examination	
(tid:) reell	Real year and real assessment time code	2014 VÅR	Usually equal to (tid:) start, but may be different, e.g.

Norwegian name	English description	e.g.	Note
			when a course lasts more than one term and there are assessments in both terms.
(tid:) start	Year and assessment time code	2014 VÅR	
datoSistEndret	Date of last change	2014-12-21	A date that will show when there last was made a change to the exam, either to the meta data or to the exam candidates.

Get assessment information

The service is described in Agora, the schema is described here:

<http://fsws.usit.no/schemas/digeks/eksamen.json>

Schema fields

The fields described for the previous service also apply here. In addition, there are:

Norwegian name	English description	e.g.	Note
eksamensansvarlige	Person in charge of assessment		
(eksamensansvarlige:) brukernavn	Username	bertn	
(eksamensansvarlige:) rollekode	Role code	EKSANSV	“EKSANSV” is the only role code.
(eksamensansvarlige:) datoAnsvarFra	In charge from ...	2014-08-29	yyyy-MM-dd
(eksamensansvarlige:) datoAnsvarTil	... until	2014-08-29	yyyy-MM-dd
rom	Room		
(rom:) id	Room identifier	GIMLE_250314	Building code _ Room code
(rom:) bygningsnavn	Building name	Campus Kristiansand	
(rom:) romnavn	Room name	D 3 041 B	
(rom:) utstyr	Equipment		Equipment available in the room.
kommisjoner	Commissions		One commission may contain several censors.
(kommisjoner:) antall_oppgaver	Number of assessments	0	
(kommisjoner:) id	Commission identifier	1	
(kommisjoner:) navn	Commission name	Kommisjon 1	

Norwegian name	English description	e.g.	Note
(kommisjoner: sensorer)	Censors		
(kommisjoner: sensorer: brukernavn	Username	sisut	
(kommisjoner: sensorer:) etternavn	Surname	Utvik	
(kommisjoner: sensorer:) fnr	Birth date and social security number	12345678901	
(kommisjoner: sensorer:) fornavn	First name	Sissel	
(kommisjoner: sensorer:) id	Identifier	46747	
(kommisjoner: sensorer: kontaktinfo	Contact details		
(kommisjoner: sensorer: kontaktinfo: epostPrivat	Private e-mail	sissel@gmail.com	
(kommisjoner: sensorer: kontaktinfo:) epost	E-mail	sisut@uia.no	
(kommisjoner: sensorer: kontaktinfo: telefonnr	Phone number	98765432	
(kommisjoner: sensorer: sensorrolle	Censor role	INTERN	Common codes: - "INTERN" - "EKSTERN" The institution may also apply their own codes.
vurderingsgrupper	Assessment groups		One assessment group may contain several candidates, but usually there is just one candidate per group.
(vurderingsgrupper:) id	Group identifier	1	
(vurderingsgrupper:) kandidater	Candidates		
(vurderingsgrupper: kandidater: brukernavn	Username of candidate	foss	
(vurderingsgrupper: kandidater: etternavn	Surname	Aga	

Norwegian name	English description	e.g.	Note
(vurderingsgrupper: kandidater:) fornavn	First name	Borghild	
(vurderingsgrupper: kandidater:) id	Candidate identifier	1981	
(vurderingsgrupper: kandidater:) kandidatnr	Candidate number	0	
(vurderingsgrupper: kandidater:) kommisjonsid	Commission identifier	0	Connection to censor.
(vurderingsgrupper: kandidater:) oppmote	Attendance		
(vurderingsgrupper: kandidater: oppmote :) stedId	Placement identifier	BL01_360	Building code _ room code
(vurderingsgrupper: kandidater: oppmote :) tid	Time to attend	08:00+0100	hh:mmZ
(vurderingsgrupper: kandidater:) tilpasninger	Adaptions		Does the candidate require any adaptions? This array consists of both general adaptions that apply to all the student's assessments, and exam adaptions that apply just for this particular assessment.
(vurderingsgrupper: kandidater: tilpasninger:) id	Adaption identifier	TID 1	Typically "TID" (time) or "UTSTYR" (equipment) for general adaptions (the institution applies their own codes), or an integer for exam adaptions.
(vurderingsgrupper: kandidater: tilpasninger:) navn	Adaption name	EKSTRA TID TIL SKRIFTLIG EKSAMEN Innvilget 25 % tilleggstid	
(vurderingsgrupper: kandidater: tilpasninger:) merknad	Adaption note	Merknad for person: Gjelder eksamene: HLED2101, HMED2101 og HØKON2301. Innvilget 25 %	General adaptions: Combination of three free text fields: Note for the adaption type, note for candidate (person) and note for the particular assessment. Assessment adaptions:

Norwegian name	English description	e.g.	Note
		tilleggstid	Free text field.
(vurderingsgrupper: kandidater: tilpasninger: ekstratid)	Extra time	Ekstra tid (timer): 0.5	Given in hours.
(vurderingsgrupper: kandidater: tilpasninger: spesialrom)	Special room		
(vurderingsgrupper: kandidater: tilpasninger: spesialrom:) id	Room identifier	BL01_360	Building code _ room code.
(vurderingsgrupper: kandidater: tilpasninger: spesialrom: byggningsnavn)	Building name	P. A. Munchs hus	
(vurderingsgrupper: kandidater: tilpasninger: spesialrom: romnavn)	Room name	Seminarrom 360	
(vurderingsgrupper: kandidater: tilpasninger: spesialrom:) utstyr	Equipment	PC	
(vurderingsgrupper: kandidater: kontaktinfo)	Contact details		
(vurderingsgrupper: kandidater: kontaktinfo: epostPrivat)	Private e-mail	foss@gmail.com	
(vurderingsgrupper: kandidater: kontaktinfo:) epost	E-mail	foss+stw1@usit.uio. no	
(vurderingsgrupper: kandidater: kontaktinfo: telefonnr)	Phone number	99665544	
(vurderingsgrupper: kandidater:) sprak	Language	BOKMÅL	
karacterskala	Grading scale		
(karacterskala: kode)	Code	N030	
(karacterskala:)	Code name	A - E	Typically "A-E" or

Norwegian name	English description	e.g.	Note
kodeNavn			“Bestått-Bestått” (approved-approved). This scale will describe highest passable grade to lowest passable grade. That is why approved is listed twice.
(karakterskala:) beskrivelseNorsk	Norwegian description	Vanlig skala A-F.	Free text field
(karakterskala:) beskrivelseEngelsk	English description	Nornal scale A-F.	Free text field