

Subject of contract

- Transfer of the present *DSpace VŠB-TUO* repository, currently available at the URL <https://dspace.vsb.cz/>, to a new installation of DSpace software version 7 or higher, located on physical servers of *VSB-TUO*.
- Transfer of all existing collection settings, including custom specific forms and their additional validations.
- Securing automatic registration of new persistent **handle** identifiers (<https://handle.net/>) with an emphasis on preserving functionality of the existing identifiers in the repository.
- Securing university LDAP/SSO/Shibboleth login for all *VŠB-TUO* users, together with the mapping of custom user groups based on the university internal identity management information – according to the user faculty/job assignment (transfer of current user group settings).
- Setting up automatic imports of theses and dissertations from *EDISON* information system (<https://edison.vsb.cz/>) and automatic imports of lists of study programmes, fields of study and courses lists from the same system for the purpose of use in *E-vyuka collections* (<https://dspace.vsb.cz/handle/10084/139473>).
- Setting up online metadata sharing via OAI Data Provider in following contexts:
 - Default (all repository records)
 - OpenAire (records from the collection: <https://dspace.vsb.cz/handle/10084/56138>)
- Customization of the repository web presentation according to the visual style of the *VŠB-TUO* (<https://vizual.vsb.cz/cs/> - logo, colours, font) + adding built-in add-ons to new website templates.

Requested add-ons:

- Cookie Consent (we use Google Analytics)
 - Creative Commons license generator + Creative Commons Badges (<https://creativecommons.org/>)
 - CitacePRO (<https://www.citacepro.com/>)
 - Altmetric (<https://www.altmetric.com/>)
 - Dimensions (<https://www.dimensions.ai/>)
 - ORCID (<https://orcid.org/>)
 - Record views count indicator
 - File(s) download count indicator
 - Enabling general DSpace statistics (SOLR based).
 - Setting up multilingual options
- ### *Minimal requirements:*
- Czech (primary language)
 - English
 - Plan for a long-term maintenance and development of the delivered solution

Description of the current state of the repository (by March 1st 2025)

Current DSpace version	5.11	
Current data size	approx. 800 GB	
Current number of records	122180 (including 638 discarded)	
Annual record increase	3000 - 3500	
Current community count	11	
Current subcommunity count	133	
Current number of records with bitstreams	97432	
Current number of bitstreams	543404 (including 40921 deleted)	
File types	PDF	
	Word	
	Presentation (ppt, pptx)	
	Images, photos, videos	
	Other file types as attachments to primary files	
Metadata format	Dublin Core	
Record licensing	Mostly Open Access (Creative Commons), small number of records is with embargo or is accessible after login. About 20% of records contain metadata only (no bitstreams uploaded).	
OAI data provider	Context Default	All records (incl. discarded)
	Context NUSL	Theses only
	Context OpenAire	The collection: https://dspace.vsb.cz/handle/10084/56138
Authentication	LDAP	
Current administrator count	14	
Login for all VŠB-TUO users	YES	
Automatic tasks	Persistent identifier handle registration (https://www.handle.net/)	frequency: after first publication of a record
	Downloading E-vyuka data lists	frequency: every night
	Full OAI data reindexation	frequency: every month
Manual tasks	Import of theses and dissertations from the <i>EDISON</i> IS	frequency: every month (see separate section)
Included ad-ons	CookieConsent (for the case of Google Analytics)	
	Creative Commons license generator + Badges (https://creativecommons.org/)	
	CitacePRO (https://www.citacepro.com/)	
	Altmetric (https://www.altmetric.com/)	
Additional custom settings	Google is forbidden to index inner content of the attached files	
	Preset custom forms for specific collections	
Custom adjustments	Customizations for <i>E-vyuka search engine</i> (description in a separate section)	

Information on imports of theses and dissertations

Theses and dissertations are regularly imported from *EDISON* information system, developed and maintained by the University IT department.

There are two scripts **to mount and unmount the directory with exports from IS EDISON** (necessary to secure access to metadata and full texts).

Each import is performed via **standard DSpace tools** using Simple Archive Format *import* command line tool (see <https://wiki.lyrasis.org/display/DSDOC5x/Importing+and+Exporting+Items+via+Simple+Archive+Format#Importing+and+Exporting+Items+via+Simple+Archive+Format-Importing+Items>).

Update of embargoed items where the embargo has expired is carried out also via DSpace Simple Archive Format command line tool – *itemupdate* (see <https://wiki.lyrasis.org/display/DSDOC5x/Updating+Items+via+Simple+Archive+Format>).

Finally, the SOLR index needs to be reindexed using the standard command line tool *index-discovery* (see <https://wiki.lyrasis.org/display/DSDOC5x/Discovery#Discovery-DiscoverySolrIndexMaintenance>).

Import/update of student's theses/dissertations must be done separately for each university faculty (there are 7 different collections in *DSpace VŠB-TUO* repository).

Additional information: The imports are not automated at the moment, the process is run manually each month. Embargoed items do not have full texts included – full texts are added on update after the embargo expires. After each import, *EDISON* information system downloads **handle** identifiers assigned to newly created repository records through the REST interface (specifically by calling <https://dspace.vsb.cz/rest/items/find-by-metadata-field?key=dc.identifier.thesis&value=XYZ&lang=>, where XYZ is the identifier assigned to a particular theses and dissertations). The amount of data transferred depends on time of the academic year. At the end of June it can amount to more than 2000 newly created records.

Metadata:

dc.contributor.advisor
dc.contributor.author
dc.date.issued
dc.identifier.other
dc.description.abstract (czech and english if available)
dc.format.extent
dc.format.mimetype
dc.language.iso
dc.publisher
dc.subject (multiple, czech and english if available)
dc.title (czech)
dc.title.alternative (english)
dc.type
dc.contributor.referee (multiple)
dc.date.accepted
dc.thesis.degree-name
dc.thesis.degree-level
dc.thesis.degree-grantor *dc.description.department*
dc.thesis.degree-program
dc.thesis.degree-branch
dc.description.result
dc.identifier.sender
dc.identifier.thesis
dc.rights.access

Information on *E-vyuka collections*

The *E-vyuka* search engine uses **SOLR index** located **on our DSpace server** to get information on files stored in eight dedicated DSpace collections.

Employees can upload documents to the collections listed here: <https://dspace.vsb.cz/handle/10084/139473>, based on their faculty/department affiliation.

There is LDAP user group mapping for each faculty, so that the rights to the collections can be properly set.

Implicit setting for the full-text access is Open Access, but librarian can set access rights for faculty users or users from the university only.

Each collection contains a customized form with lists of study programmes, fields of study and courses/course versions, that are being downloaded from *EDISON IS* on a daily basis (*cron task*):

Example of *E-vyuka collection* form:

Následující atributy dokumentu (kód verze předmětu a kód předmětu) slouží k propojení a **zveřejnění odkazu na dokument na stránkách detailu předmětu** v rámci portálu **E-výuka**. Jedná-li se o studijní oporu určenou pouze pro obor/program, tak následující kódy nevyplňujte. Návod pro správný výběr výběr kódů z číselníků je dostupný [na stránkách s návody](#).

Kód verze předmětu:

310 - Bakalářský projekt I (310-2430/02)
310 - Bakalářský projekt II (310-2431/01)
310 - Bakalářský projekt II (310-2431/02)
310 - Diferenciální rovnice (310-2421/01)
310 - Diferenciální rovnice (310-2421/02)
310 - Klasické řešení parciálních diferenciálních rovnic (310-4001/01)

Vyberte kódy všech verzí předmětu, kterých se dokument týká. Dokument bude dostupný pouze vyjmenovaným verzím předmětů.

Kód předmětu:

310 - Matematika IV (310-3141)
310 - Matematika na počítači (310-2411)
310 - Maticová analýza a variační počet (310-3142)
310 - Numerická matematika (310-2130)
310 - Numerické metody (310-2420)
310 - Parciální diferenciální rovnice (310-3143)
310 - Parciální diferenciální rovnice - řešení (310-3145)

Vyberte kódy všech předmětů, kterých se dokument týká. Dokument bude rovněž společný pro všechny verze těchto předmětů.

Následující atributy dokumentu (kód verze předmětu a kód předmětu) slouží k propojení a **zveřejnění odkazu na dokument na stránkách detailu oboru/programu** v rámci portálu **E-výuka**. Jedná-li se o studijní oporu určenou pouze pro obor/program, tak následující kódy nevyplňujte. Návod pro správný výběr výběr kódů z číselníků je dostupný [na stránkách s návody](#).

Kód studijního oboru:

Hydraulika a pneumatické stroje a zařízení (2302R007)
Hydraulika a pneumatika (S03)
Interiéry (S03)
Konstrukce robotické techniky (S02)
Konstrukce strojních dílů a skupin (S06)
Konstrukce strojů (S04)
Konstrukce strojů a zařízení (2302R010)

Vyberte kódy všech studijních oborů, kterých se dokument týká.

Kód studijního programu:

Neuvedeno
Aplikovaná mechanika (P0715D270014)
Aplikované vědy a technologie (B0588A170003)
Dopravní a manipulační technika (P0719D270006)
Dopravní systémy (P1041D040006)
Dopravní systémy a technika (N1041A040002)

Vyberte kódy všech studijních programů, kterých se dokument týká.

Selecting multiple options is permitted, but selecting one item from any list is necessary to pass the validation of the form.

Form mapping of E-vyuka collections in *input-forms.xml*

In *input-forms.xml* the mapping for *E-vyuka* collections looks like so:

```
<!DOCTYPE input-forms [  
<!ENTITY evyuka_form_FAST SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_FAST.xml">  
<!ENTITY evyuka_form_FBI SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_FBI.xml">  
<!ENTITY evyuka_form_FS SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_FS.xml">  
<!ENTITY evyuka_form_FEI SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_FEI.xml">  
<!ENTITY evyuka_form_HGF SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_HGF.xml">  
<!ENTITY evyuka_form_FMT SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_FMT.xml">  
<!ENTITY evyuka_form_EKF SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_EKF.xml">  
<!ENTITY evyuka_form_USP SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_USP.xml">  
<!ENTITY evyuka_form_9270 SYSTEM "/home/tomcat/dspace/config/vsb/evyuka_form_9270.xml">  
<!ENTITY vp_program_FAST SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_FAST.xml">  
<!ENTITY vp_program_FBI SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_FBI.xml">  
<!ENTITY vp_program_FS SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_FS.xml">  
<!ENTITY vp_program_FEI SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_FEI.xml">  
<!ENTITY vp_program_HGF SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_HGF.xml">  
<!ENTITY vp_program_FMT SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_FMT.xml">  
<!ENTITY vp_program_EKF SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_EKF.xml">  
<!ENTITY vp_program_USP SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_USP.xml">  
<!ENTITY vp_program_9270 SYSTEM "/home/tomcat/dspace/config/vsb/vp_program_9270.xml">  
<!ENTITY vp_branch_FAST SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_FAST.xml">  
<!ENTITY vp_branch_FBI SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_FBI.xml">  
<!ENTITY vp_branch_FS SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_FS.xml">  
<!ENTITY vp_branch_FEI SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_FEI.xml">  
<!ENTITY vp_branch_HGF SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_HGF.xml">  
<!ENTITY vp_branch_FMT SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_FMT.xml">  
<!ENTITY vp_branch_EKF SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_EKF.xml">  
<!ENTITY vp_branch_USP SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_USP.xml">  
<!ENTITY vp_branch_9270 SYSTEM "/home/tomcat/dspace/config/vsb/vp_branch_9270.xml">  
<!ENTITY vp_subject_FAST SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_FAST.xml">  
<!ENTITY vp_subject_FBI SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_FBI.xml">  
<!ENTITY vp_subject_FS SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_FS.xml">  
<!ENTITY vp_subject_FEI SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_FEI.xml">  
<!ENTITY vp_subject_HGF SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_HGF.xml">  
<!ENTITY vp_subject_FMT SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_FMT.xml">  
<!ENTITY vp_subject_EKF SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_EKF.xml">  
<!ENTITY vp_subject_USP SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_USP.xml">  
<!ENTITY vp_subject_9270 SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject_9270.xml">  
<!ENTITY vp_subject-version_FAST SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_FAST.xml">  
<!ENTITY vp_subject-version_FBI SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_FBI.xml">  
<!ENTITY vp_subject-version_FS SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_FS.xml">  
<!ENTITY vp_subject-version_FEI SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_FEI.xml">  
<!ENTITY vp_subject-version_HGF SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_HGF.xml">  
<!ENTITY vp_subject-version_FMT SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_FMT.xml">  
<!ENTITY vp_subject-version_EKF SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_EKF.xml">  
<!ENTITY vp_subject-version_USP SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_USP.xml">  
<!ENTITY vp_subject-version_9270 SYSTEM "/home/tomcat/dspace/config/vsb/vp_subject-version_9270.xml">  
>  
>
```

Metadata:

dc.contributor.author (multiple)
dc.date.issued
dc.identifier.isbn
dc.description.abstract
dc.language.iso
dc.publisher
dc.rights
dc.rights.uri (Creative Commons plugin)
dc.subject (multiple)
dc.title
dc.type
dc.description.placeofpublication
dc.identifier.doi
dc.rights.access
dc.description.source (E-vyuka)

Additional metadata for E-vyuka collections (<https://dspace.vsb.cz/admin/metadata-registry>)

evyuka.discipline
evyuka.filesize
evyuka.mimetype
evyuka.programme
evyuka.subject.version
evyuka.subject

List of currently used persistent identifiers

- handle – DSpace VŠB-TUO repository automatically registers handle identifiers with prefix of **10084**
- DOI (as part of metadata)
- ISBN (as part of metadata)
- ISSN (as part of metadata)

Other custom settings/adjustments

- **Collection forms setting in *input-forms.xml***
We use the *input-forms.xml* file to assign custom input forms for individual collections. The functionality is mainly used in newly created collections for university journal issues and collections of regularly published proceedings.
Currently, there is a working utility in PHP allowing the library system administrator to edit this file via internet browser, with the new settings always available next morning.
DSpace reboot required to load the new settings is done every night after import of [data lists for E-vyuka collections](#).
- **The OpenAire collection**
There is a dedicated collection in the VŠB-TUO repository: (<https://dspace.vsb.cz/handle/10084/56138>) with metadata settings that are to be compatible with the OpenAire portal requirements (<https://www.openaire.eu/>). This collection is being harvested by OpenAire via OAI Data Provider interface.