



TECHNISCHE
UNIVERSITÄT
WIEN



Digital Teaching
and Learning

Our Moodle Journey at TU Wien: 18 years of Successes, Lessons and the Road Ahead!



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Intro

- TU Wien = Austria's largest technical, scientific research and education institution
- Using Moodle for 18 years (first installation 2005)



At the beginning ...

- some local Moodle installations (department level)
- not centralized
- need for a central hub for digital teaching and learning
- birth of TUWEL
 - Abbreviation for “**T**echnische **U**niversität **W**ien **E**-Learning”
 - Name signaled centralized system
 - Did not want to use the term Moodle (back then)

<https://tuwel.tuwien.ac.at/>

The screenshot shows the TU Wien E-Learning Moodle interface. At the top, it says 'TU Wien E-Learning' and 'Sie sind angemeldet als Muster Max (Logout)'. Below this, there are several navigation menus and course listings. The 'Meine Kurse' section lists several courses, including 'Einführung in TUWEL für Lehrende', 'Moodle Features Demo', '189.139 Algorithmen, Datenstrukturen und Programmieren 1 (UE, 2.0)', '189.366 Internet Security (VU 2.0)', '164.017 Technische Elektrochemie', and '252.058 Studio Gebäudelehre (VO, 1.5)'. The interface also includes a 'Hauptmenü', 'Forensuche', and 'Neueste Nachrichten' section. A calendar for May 2006 is visible in the bottom right corner.



Some current stats

- Moodle 4.3 & MySQL 8.0 & PHP 8
- 194 GB database
- 18 TB userdata
- 16 server
- 34.735.839 page views 2022
- ~1.300 courses per year
- # of ... posts (408.255), quiz questions (1.562.062), resources (309.604), average number of participants (87)

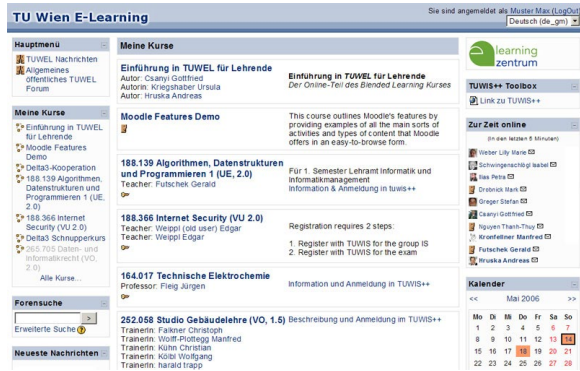


What was needed at the start

- authentication (now: SAML2 – changed sometimes over the years)
- enrolment from (custom build) campus software
- grade export
- theme – TU Wien branding



Visual journey



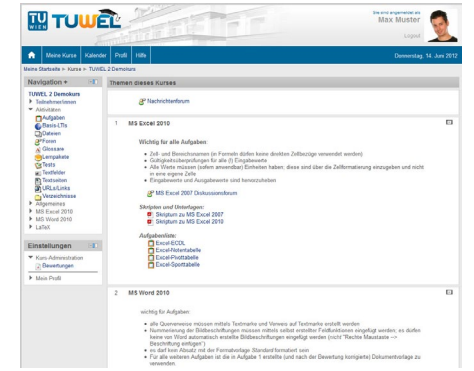
2006



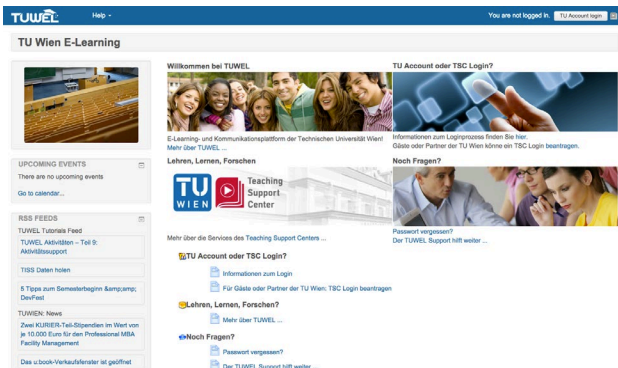
2009



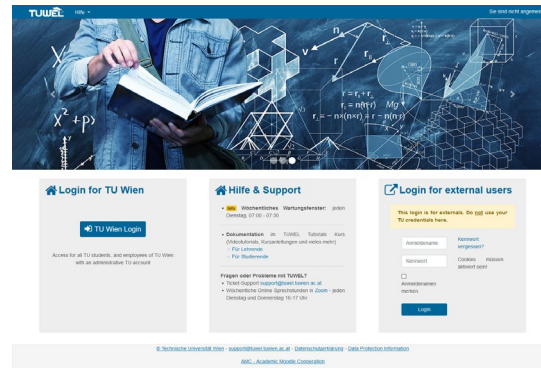
2011



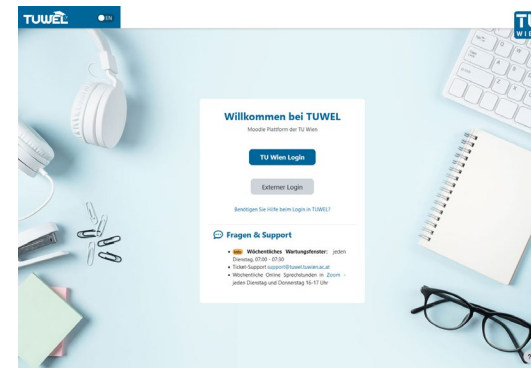
2013



2014



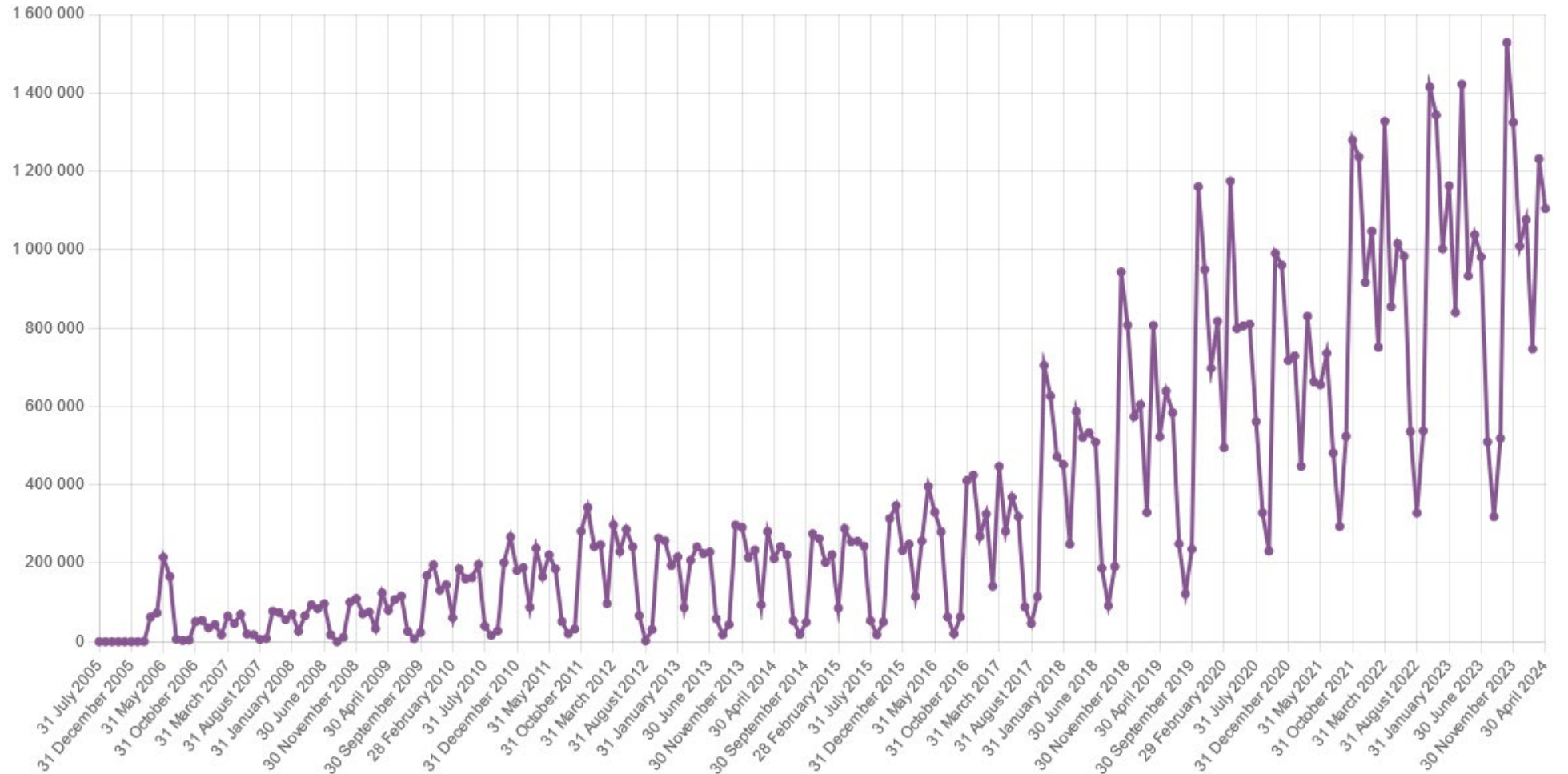
2021



2023

Usage

- Logins since 2005
- Growth
- Corona boost
- Differences in winter and summer terms



Moodle community

- Open source key for us
- also giving back (see below!)
- Local cooperation
 - Power users (few, but good)
- National cooperation



[Assign Submission Download](#) (local_assignsubmission_download)

[Download Center](#) (local_downloadcenter)

[Consentform](#) (mod_consentform)

[Grouptool](#) (mod_grouptool)

[Checkmark](#) (mod_checkmark) & [Checkmark Report](#) (local_checkmarkreport)

[Grade Distribution](#) (gradereport_gradedist)

[Offline Quiz](#) (mod_offlinequiz) & [Offlinequiz Cronjob](#) (report_offlinequizcron)

[Publication](#) (mod_publication)

[Organizer](#) (mod_organizer)

<https://academic-moodle-cooperation.org/plugins/>



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Academic
Moodle
Cooperation

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Moodle community

- International cooperation
 - Part of MUA (Moodle Users Association)
 - Hosting MoodleMoot DACH conference
 - devcamp & barcamp formats
 - english tracks
 - EUList – European University Alliance



Herzlich willkommen an der [#MootDACH](#). Wir sind zurück: 4 Tage über Moodle diskutieren und an Moodle arbeiten!








MootDACH an der TU Wien

DevCamp 3. - 4. September 2024

BarCamp 5. - 6. September 2024

3rd party plugins ... extending our Moodle

In total 59 add-ons are installed, the most interesting are:

-  Attendance
-  Checkmark
-  Etherpad lite
-  Grouptool
-  Lightbox gallery
-  Moodleoverflow
-  Organiser

... and various question types: Kprim, Regex, drawing ...

LTI

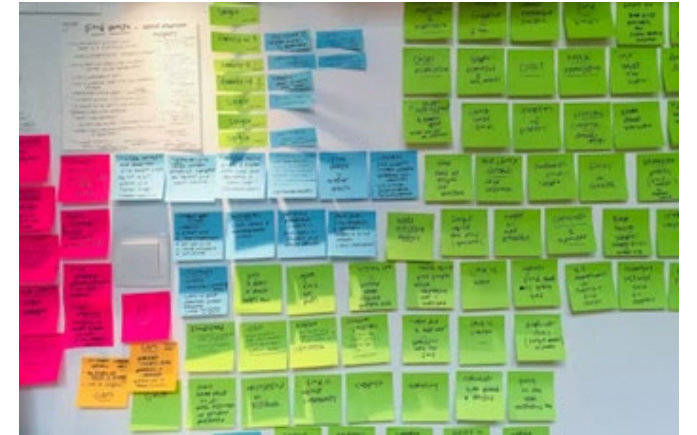
We love the LTI standard 😊

- Zoom
- Opencast
- Möbius
- Matlab Grader
- JupyterHub
- External tools from various departments
- ...



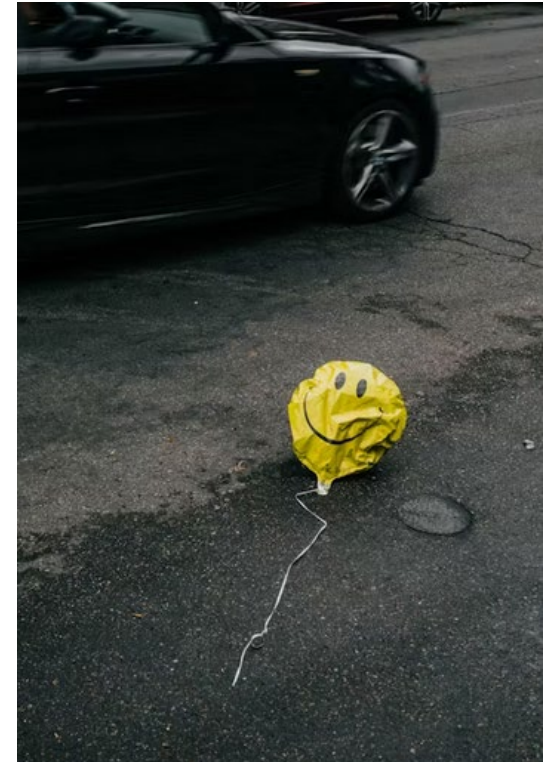
Topics / trends

- Over the years many topics to deal with
- Moodle proved to be a good tool over the decades
 - GDPR (+)
 - Accessibility (getting better and better)
 - Policies handling (+)
 - IT security (+)
 - Kiosk mode (~)
- Next topics: Coderunner, AI, e-assessment



Difficulties with Moodle

- Usability & frequent changes
- Implementation of competencies
- Management of group (add-on needed early)
- Updates (1.9→2.x horror, since 3.x much better)
 - Depending on addons
- Internally: different Moodles for different use cases (self-assessment, MOOCs, continuous education, e-exams, etc.)



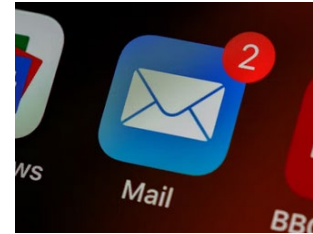
How we support our lecturers?



Tutorials course



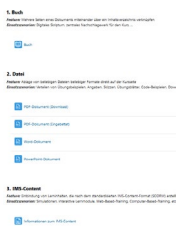
Weekly Zoom calls



Ticketing (700+)



100+ Guides (de,en) AMC



Demo course



2x Moodle update events



Newsletter



~ 12 trainings (basics, grades, course design)



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Thank you for your attention!

Questions?



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