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Development and organization of open educational resources (OERs) in Taiwan through initiatives by Chinese Open Education Consortium (COEC)

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Uses of OERs and MOOCs resources in Taiwan





MOOCs	OERs
Ready to use.	Learning objects. Rework needed in many cases.
Applicable "as-is"	Personalization is possible.
Focused on the learners.	Focused on the instructors.
Applicable in specific situations.	Broad spectrum of applicability.



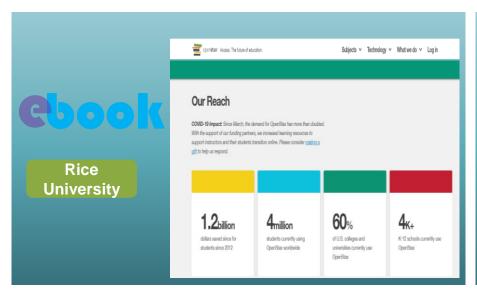
- The UNESCO launched the OER Dynamic Coalition in Nov 2019 and offered online OERs and MOOCs by universities, publishers and foundations in March 2020 to meet the needs for self-directed learning.
- All the learners are free to access OERs.

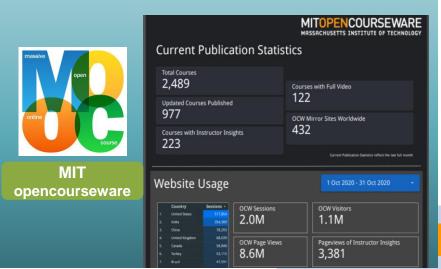






 Under the gigantic push due to Covid-19 pandemic, the uses of OERs and MOOCs drastically increase in the internet in this period, e.g. rather heavy uses of e-books on Stax at Rice University and of opencourseware at MIT.





The COEC initiated the project of organizing OERs to support development of MOOCs in Taiwan from 2014.

■ The COEC currently has 80+ members from universities and institutes so far. Our OERs project is mainly to focus ebooks and digital resources for personal e-learning as well as to organize meetings and workshop.



- In light of dealing with issues on multiplicity, diversification and duplication of OERs, the COEC tries to select resources from creative commons (CC) and general public license (GPL).
- The digital data are processed with metadata, subject titles, keywords, licensing type, etc. for value-added services to provide effective access by users, for both instructors and learners.

Effective access of OERs by instructors and learners



Call-for-OERs project by COEC



Data collection and filtering

Metadata

Categorize Subjects, Keywords Licensing Selection

OERs

Organization of information, classification/ Creating database

Access

Target of interests on e-book, teaching materials

Title, Author, etc.

Search ranking by usage

Identify authorization scope

Retrievals of e-books and e-journals are mainly from overseas resources.



Using OAI-PMH

Open achieves initiative communicative protocol for retrieving a gross package of targeted files



OAI-PMH

means

Open Archives Initiative Protocol for Metadata Harvesting

Open Data Declaration

These OER services don't provide convenient download functionality.



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OpenTextBookStore



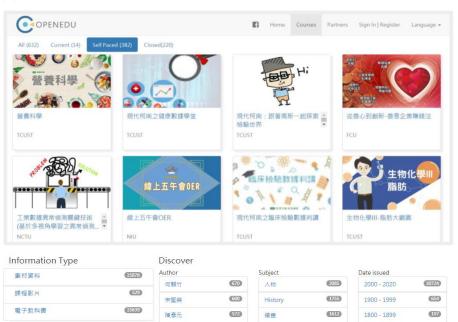
Establishing a single search portal to access all kinds of metadata easily





Taiwan MOOC OERs

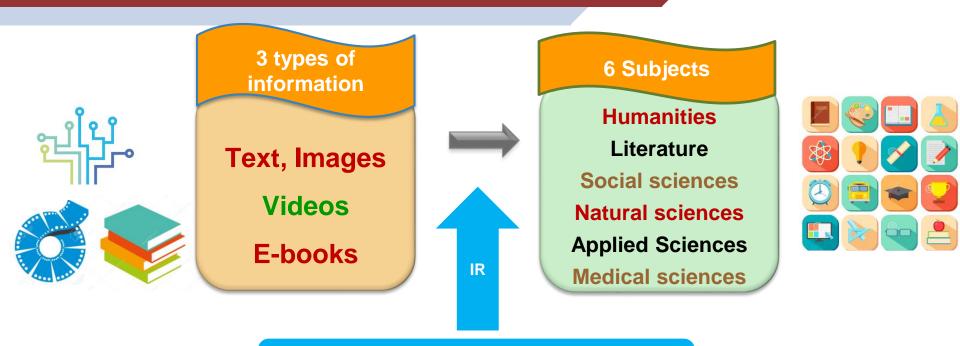
Open Educational Resources (OER) are free and openly licensed educational materials that can be used for teaching, learning, research, and other purposes.



■ The single search portal function allows users to enjoy smoothness and convenience of search activity through entire domain of OERs



Information resources available of OERS

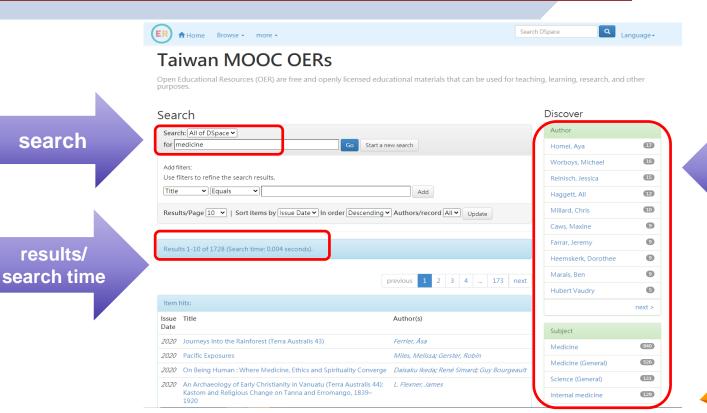


Search by titles, authors, keywords...

Searching results for OERs

search

results/



analytics

Current status of available OERs

 15,878 items on text & images (mainly available in Taiwan), 15,941 on e-books, 529 items on videos in current OERs platform

E-materials

- General Education TW
- NSTM
 Collections
 Digital Value Added Website
 of Technological
 Artifacts

E-textbooks

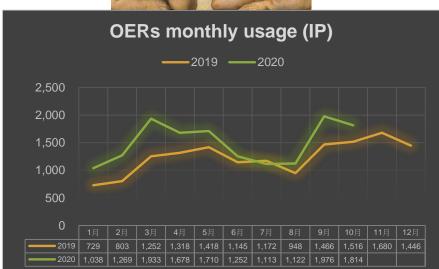
- DOAB
- Bccampus
- Open Textbook
- InTech
- Springer
- Bookboon
- openstax cnx

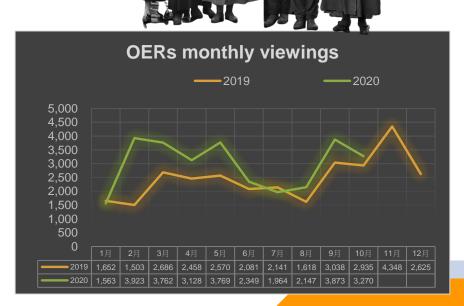
Videos

- General Education TW
- OpenEdu

Access statistics: 29,333 access (IP) and 59,403 views in Jan 2019 to Oct 2020

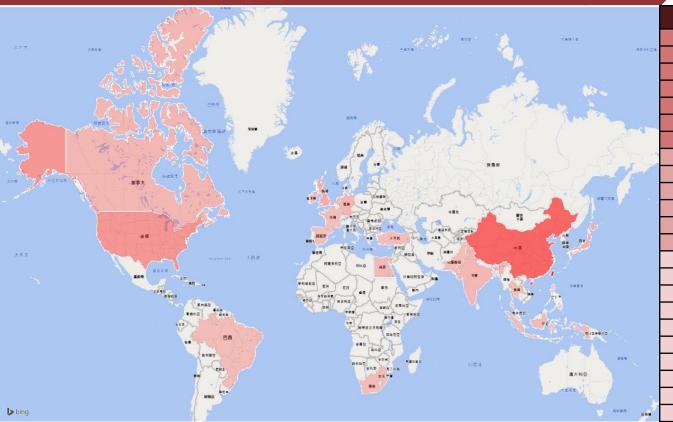






Global access to OERs platform of COEC

The infographic IP statistics (Jan 2019 ~ Oct 2020)



Country or area	Usage
Taiwan	11,558
China	6,314
United States	2,742
United Kingdom	1,160
Japan	1,145
Hong Kong	873
Australia	638
Canada	431
Germany	398
India	345
Netherlands	190
Egypt	145
Indonesia	101
Brazil	76
South Africa	71
Turkey	31
Thailand	25
Pakistan	25
France	17
Ireland	14
Spain	13
Philippines	7
Israel	7

- COEC has acquired a collection of MOOCs via collaborate with OpenEdu.
- The production of these MOOCs was granted with financial supports from MoE (Taiwan) as well as by individual member of OpenEdu.



OpenEdu platform to access online courses



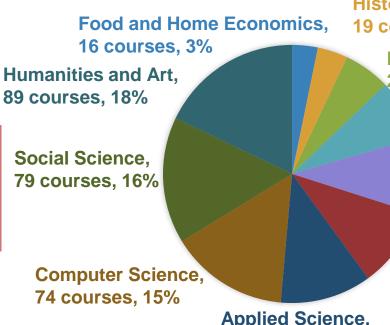
498 MOOCs are made in 10 categories. Number of learners registered: 114,771







OpenEdu platform of open access to MOOCs



History and Geography, 19 courses, 4%

Philosophy of Religion, 29 courses, 6%

Medicine, 38 courses, 8%

Business
Management,
47 courses, 9%

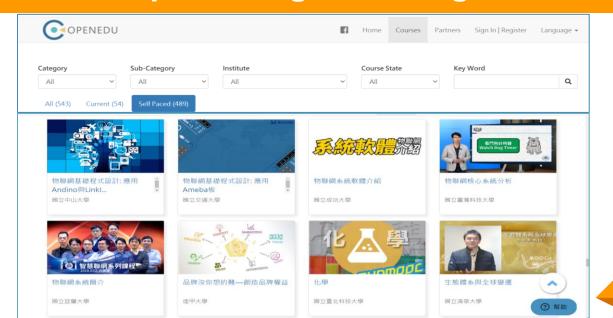
Nature Science, 50 courses, 10%

Applied Science, 57 courses, 11%





 COEC is in charge of management and upload of courseware for promoting e-learning with MOOCs



- So far COEC has organized a serial of workshops for members and users of COEC each year.
- All the talks, instructions and tutorials from such workshops are also video-captured as online resources available for all.







We made 91 presentations on various topics in video

subject/courses %

- 20 2019ELOE VR教育產 品品牌與授權 - 哈馬 單點時
- 20 2019ELOE VR教育臺 品品牌與授權 – HTC 健康警療事業創
- 20 2019ELOE VR較齊 品品牌問模權 - 必非



永續發展-環境・社會與經濟之

粉含式课程發展

南向國家際課贷數位數學-以越



新南向課程越南推廣心得

Course Application,
23 sessions, 47%

Learning effectiveness analysis, 11 sessions,12%

IP issue, 2 sessions, 2%

Course design and production, 18 sessions, 20%

Summary



- COEC will continuously develop OERs from vast resources around the globe with a single search portal to enhance the visibility of educational resources in Chinses and content of MOOCs.
- COEC will provide various subjects of interests for users in industrial sectors and for government employees.
- COEC goes on international collaborations with other platform like
 FutureLearn and co-training programs with ASEAN countries.



THANK YOU

FOR YOUR ATTENTION



Welcome to visit us at FCU, Taiwan

