Enhancing Roles of AUN Libraries in Supporting Education 4.0: Opportunities and Challenges

Country Report

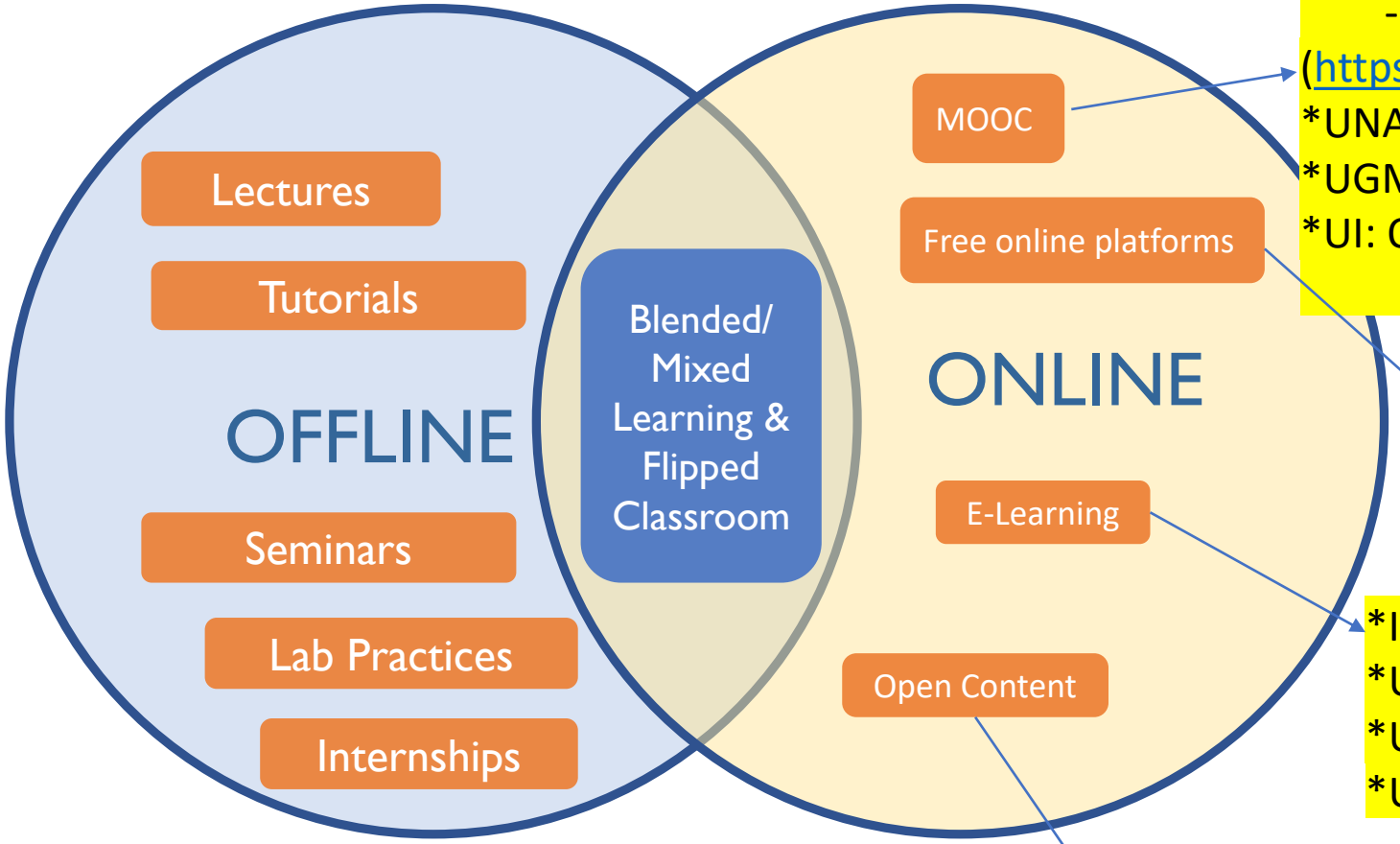
INDONESIA

AUNILO MEETING

Yogyakarta, 5-8 August 2019

	ITB	UNAIR	UGM	UI
Location	Bandung, West Java Province	Surabaya, East Java Province	Special Region of Yogyakarta	Depok, West Java Province
Field of Studies	STEAM and Business Management	STEM, Social Sciences, & Humanities	STEM, Social Sciences, & Humanities	STEM, Social Sciences, & Humanities
Student Population	A. Undergraduate: 15,512 B. Graduate: 5,679 (Master), 936 (Doctor)	A. Undergraduate: 25,813 B. Graduate: 9,023	A. Undergraduate: 5,462 (vocational); 25,480 B. Graduate: 8,716 (master); 1,793 doctor); 2,054 (professional); 1,173 (specialist)	A. Undergraduate: 28,395 B. Graduate: 10,062 (Master), 1,996 (Doctor), 950 (Professional Program), 2,499 (Specialist Program)
Faculties	A. Undergraduate: 7 Faculties and 5 Schools B. Graduate: 7 Faculties and 5 Schools	A. Undergraduate: 14 B. Graduate: 1	A. Undergraduate: 18 faculties, 1 school (vocational) B. Graduate: 18 faculties, 1 school (graduate)	A. Undergraduate: 14 Faculties B. Graduate: 14 Faculties and 2 Schools
Departments/Study Programs	A. Undergraduate: 49 B. Graduate: 54 (Master), 27 (Doctor)	A. Undergraduate: 62 B. Graduate: 44 (Master) 13 (Doctor)	A. Undergraduate: 27 (vocational); 67 B. Graduate: 12 (professional); 26 (specialist); 86 (magister); 47 (doctor)	A. Undergraduate: 63 B. Graduate: 67 (Master), 37 (Doctor), 5 (Professional Program), 43 (Specialist Program)
Faculty Members	1. Professor: 167 2. Associate Professor: 299 3. Assistant Professor: 443 4. Instructor: 133	1. Professor: 219 2. Associate Professor: 386 3. Assistant Professor: 650 4. Instructor: 399	1. Professor: 378 2. Associate Professor: 615 3. Assistant Professor: 1194 4. Instructor: 932	1. Professor: 235 2. Associate Professor: 401 3. Assistant Professor: 606 4. Instructor: 476
Libraries	1 Central Library & 31 Libraries in Faculties/Schools/Study Programs	1 Main Library & 13 libraries in faculties	1 Main Library 18 Faculty libraries 2 School libraries 21 libraries at research centres	1 University Library 10 Libraries/Reading Room in Faculties/Schools
Librarians	12 (in Central Library) & 37 (in Faculties/Schools/Study Programs' Libraries)	30 (in Main Library) & 20 (in faculties)	48 librarians 26 assistant librarians 32 support staff (clerical, IT)	14 librarians 35 staffs with library science degree
Ratio Fac. Members and Students	1:17	1:21	1: 15	1:23

Learning and Teaching Methods



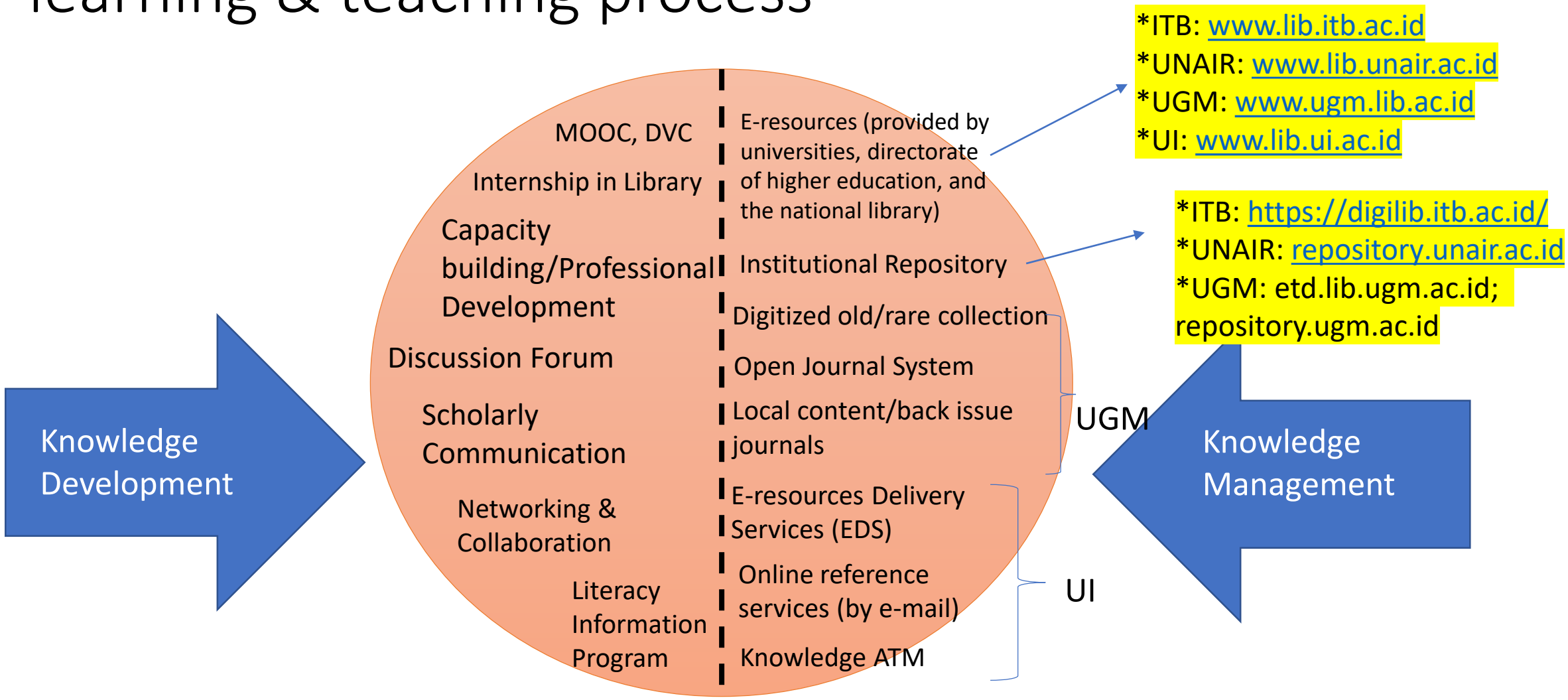
*ITB: -Collab with US Embassy & EdX
-Distance learning
(https://pditt.kuliah.itb.ac.id/)
*UNAIR: mooc.unair.ac.id
*UGM: https://elok.ugm.ac.id/
*UI: Open Courseware
(http://ocw.ui.ac.id/)

Youtube, Google Classroom

*ITB: https://kuliah.itb.ac.id/portal/
*UNAIR: elearning.unair.ac.id
*UGM: https://elisa.ugm.ac.id/
*UI: https://scele.ui.ac.id/

UI: https://ovis.ui.ac.id/

Library Roles in LMS Implementation to support learning & teaching process



Library Initiatives, Plans, Experiences, and Innovations

INITIATIVES

- Library integrated IT system (with student/fac/staff database) & library automation
- Scholarly communication services/Research library initiatives
- Mobile Apps
- External internship for librarians for professional development

PLAN

- To map lib. business process with other units & to connect lib. and univ. population databases for supporting learning & teaching process as well as OER dissemination
- To establish digital scholarship center for research data management and academic integrity implementation
- To optimally utilize social media as a platform to spread information about OER & library services
- To provide maker space & more co-working spaces

EXPERIENCES

- Improvement of Institutional Repository
- E-Resources Provision
- MOOC & DVC
- Upgrade Library Automation
- Social Media & Community Engagement
- Academic/Research integrity services
- Mobile Apps
- Online Self-Submission system

EXPECTED INNOVATIONS

- Integrated database & interconnected systems between libs & other units within universities to support LMS & to simplify business process
- Library roadshow programs & library class by request
- Book donation to foster literacy in remote areas
- Research integrity services
- Knowledge-based industry
- Strategic alliance w/ intl & national institutions

Opportunities and Challenges in delivering library programs & services

Challenges

- Financial Constraint: budget < needs (due to increasing fee of online subscription)
- Human Resources: digital migrant librarians' IT skills & attitude toward technology)
- Infrastructure: (i) the need of more co-working/learning space, (ii) technology (e.g. limited IP address, tech. development)
- Users: ethic (related to excessive download), decreasing number of visitors (esp. faculty members) due to online access
- Bureaucracy: (i) limited lib. roles with regards to e-learning,)ii) Silos among units within the campus hindering integration and orchestration
- Other: the need of better formulated strategic planning on digital scholarship

Opportunities

- Users: (i) technologically savvy users consisting mostly digital natives, (ii) increasing virtual visits, (iii) positive attitude of faculty members on the development of OER & e-learning/MOOC
- Rebranding of libraries as learning & co-working spaces
- Technology: optimum use of technology, big data & AI to support LMS, broader access of OER
- Strong networking with internal and external institutions
- Universities' international accreditation target as a motivation to boost library performance

Concluding Remarks

To support education 4.0, Indonesian university libraries need to:

1. rebrand into offline and virtual co-working spaces allowing the libraries to support LMS & to foster academic/research integrity in education 4.0
2. maximize the opportunities as an avenue to enhance libraries' roles in education 4.0
3. to transform challenges into opportunities so that libraries will not only be relevant but also thrive in education 4.0

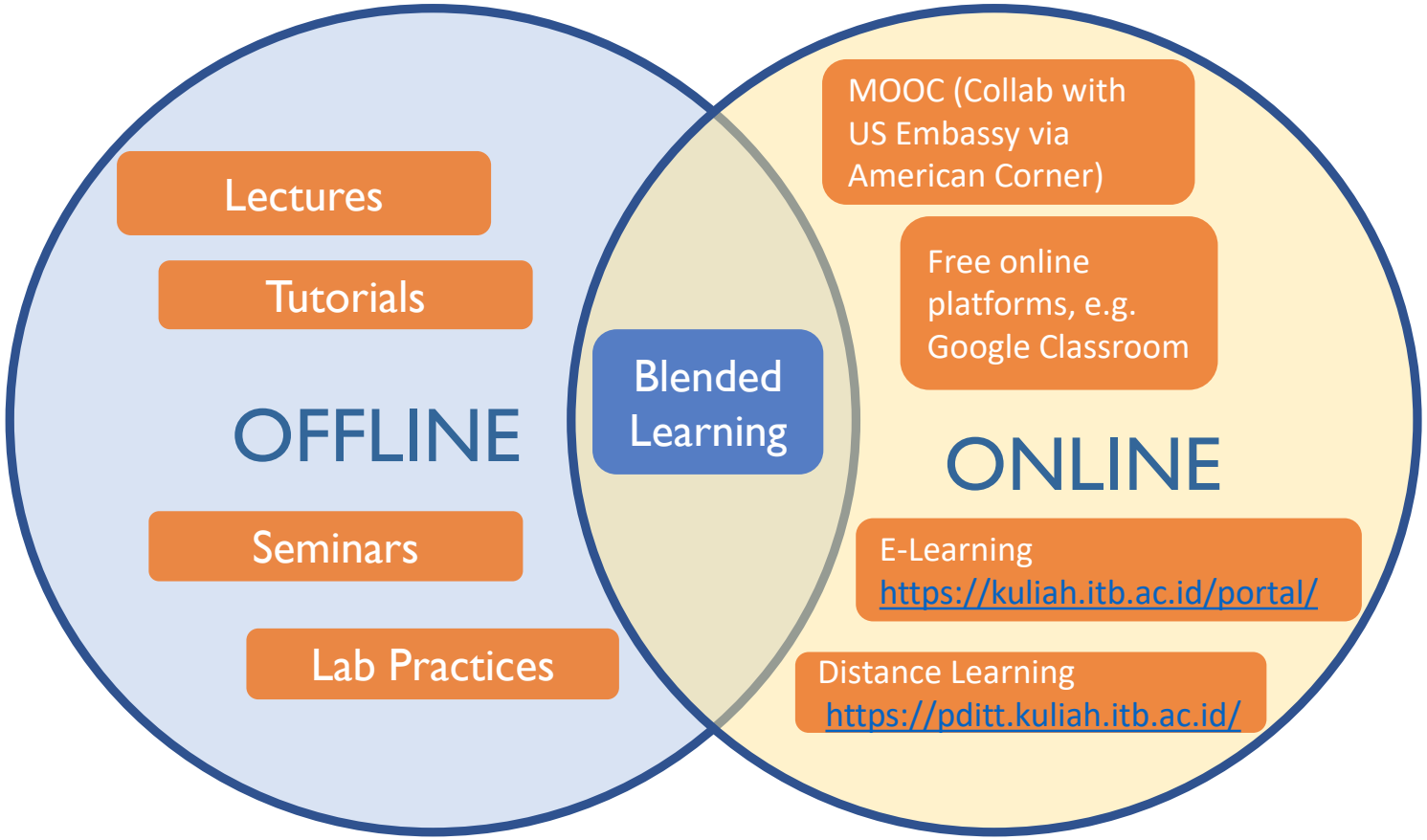
DETAILS OF EACH UNIVERSITY

APPENDICES

Enhancing Roles of AUN Libraries in Supporting Education 4.0: Opportunities and Challenges

INSTITUT TEKNOLOGI BANDUNG

Learning and Teaching Methods



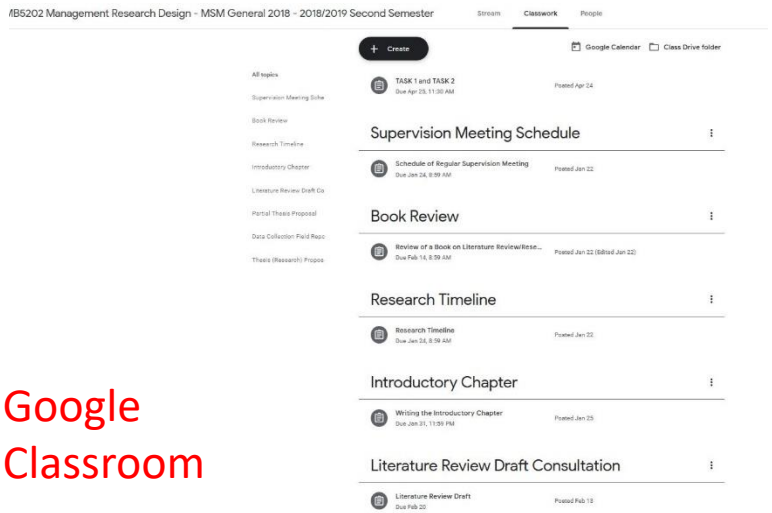
Direct Video
Conference (DVC)

Lecture

Lab Practice

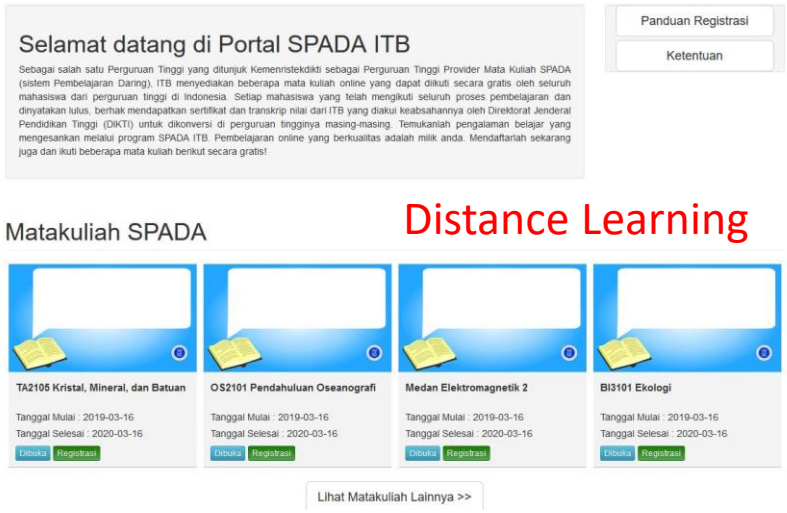
MOOC

Google Classroom

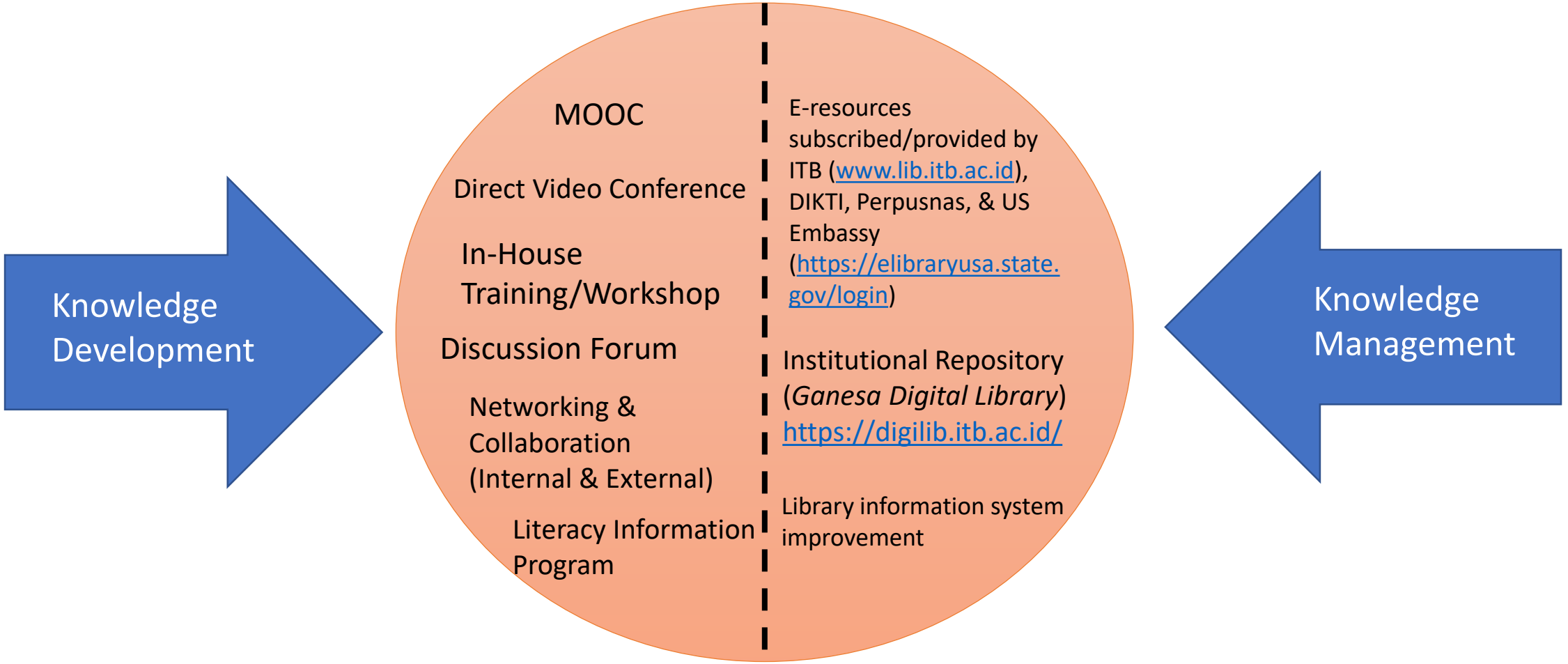


E-Learning

Distance Learning



Library Roles in LMS Implementation to support learning & teaching process

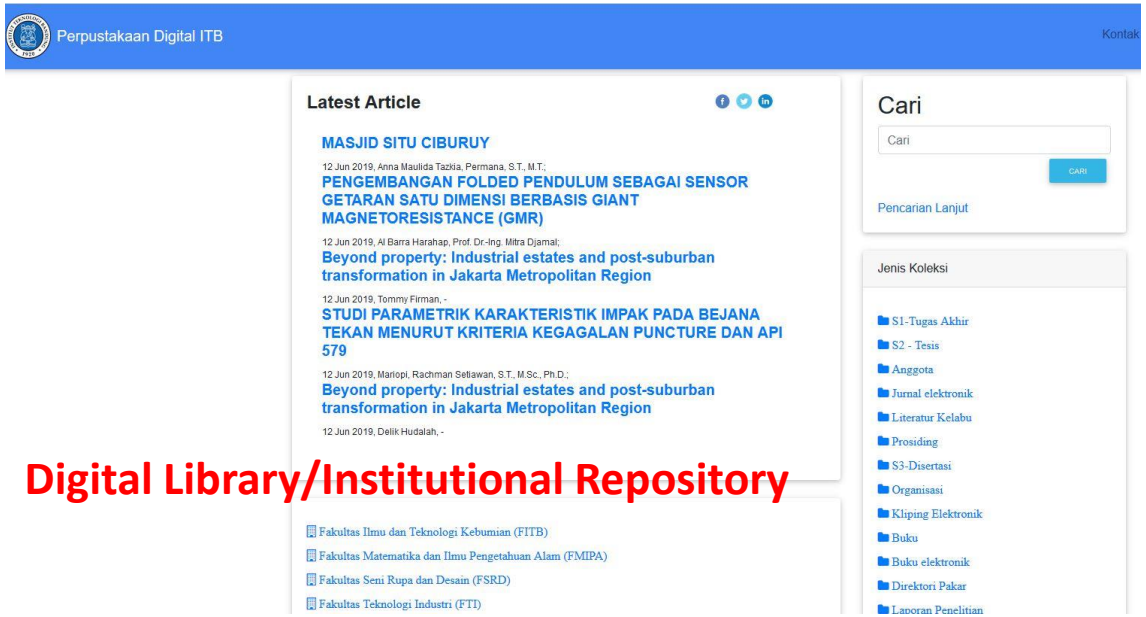


Public Lecture with US Embassy

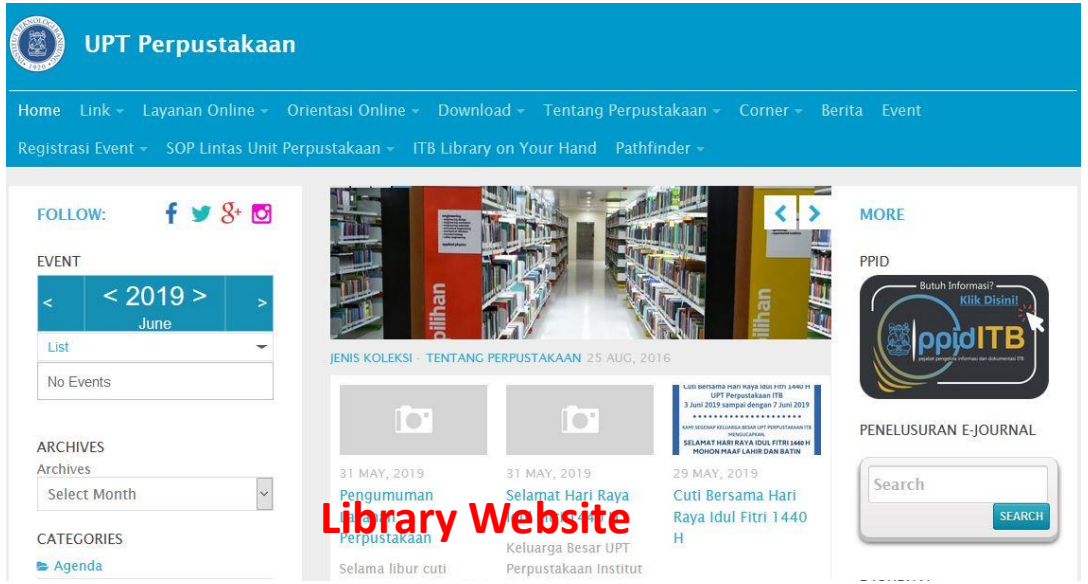
Literacy Information Program

In-house Training

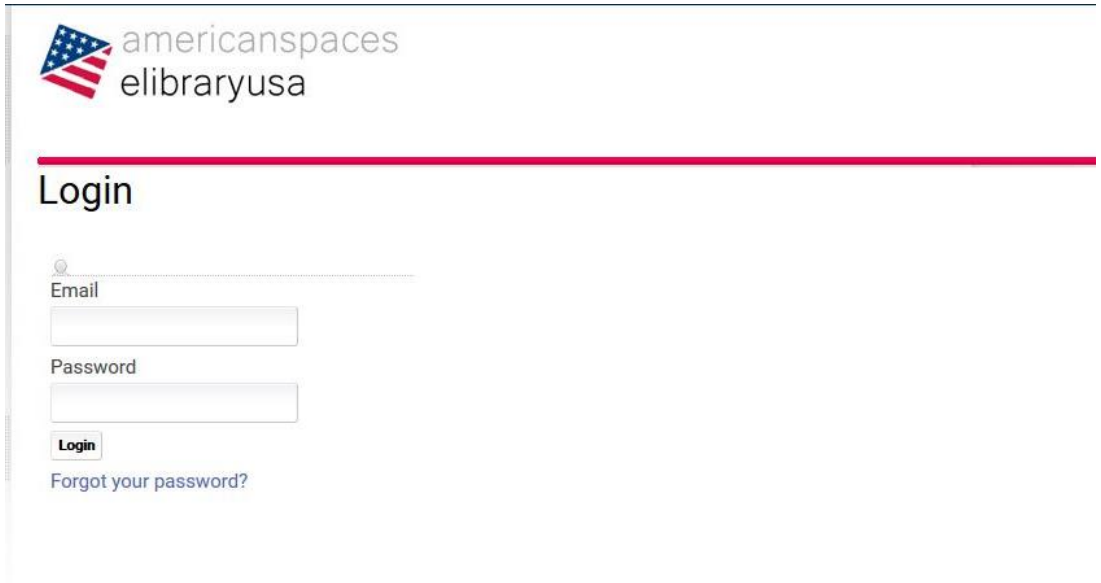
Direct Video Conference (DVC)



Digital Library/Institutional Repository



Library Website



Library Social Media

ITB Library Initiatives, Plans, Experiences, and Innovations

INITIATIVES

Data integration of students, faculty members, courses offered, and library resources

ITB's Interconnection with E-Learning Center and Institute for Research and Community Service

Mobile Apps

PLAN

To connect the library and ITB student & faculty members databases in order to assist the students and fac members resources required for the courses they enroll/teach.

To connect with ITB E-learning Center in order to facilitate the OER dissemination

To optimally utilize social media as one of the platforms to spread information about OER and OER content

EXPERIENCES

Development & improvement of Institutional Repository (Ganesa Digital Library)

E-Resources Provision

Organizing MOOC & DVC

Social Media Management for OER dissemination

EXPECTED INNOVATIONS

Integrated database

Library integration with relevant organizations within ITB to support LMS

Effective OER dissemination

Opportunities and Challenges in delivering library programs & services:

Challenges

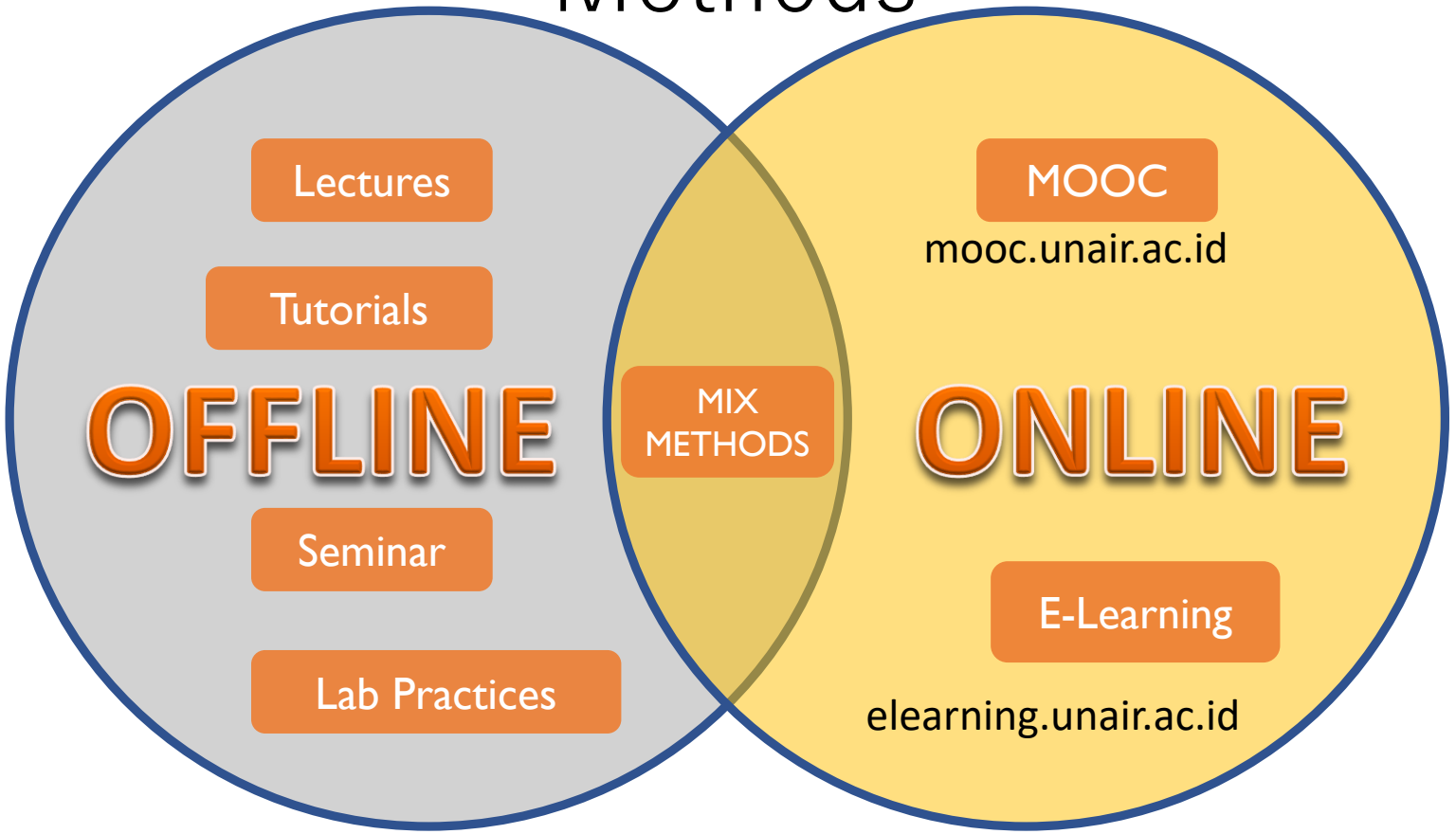
- Technology Infrastructure: Limited IP address
- Financial Resources: Limited budget
- Human Resources: Digital migrant librarians' anxiety in the digital age
- Library users: Ethic
- Bureaucracy

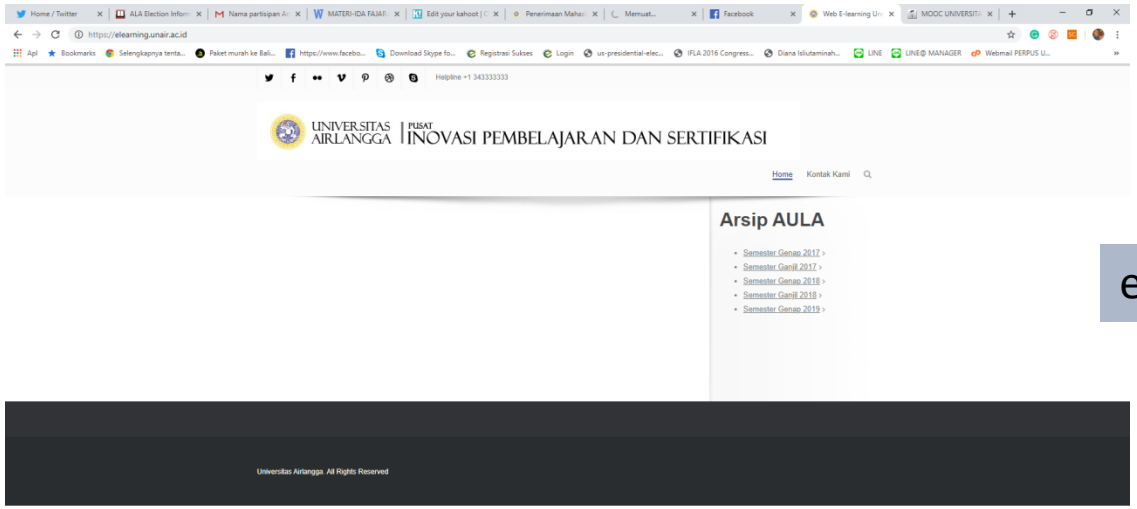
Opportunities

- Human Resources: Digital native students, technologically oriented faculty members
- STEM oriented institution
- International accreditation target
- Strong networking with internal units, other university libraries, foreign governments, alumni, & various international organizations
- Positive inclination of faculty members to incorporate OER & technology in their teaching materials (94 faculty members) and to actively utilize e-learning as well as to share OER their teaching & learning activities (231 faculty members)

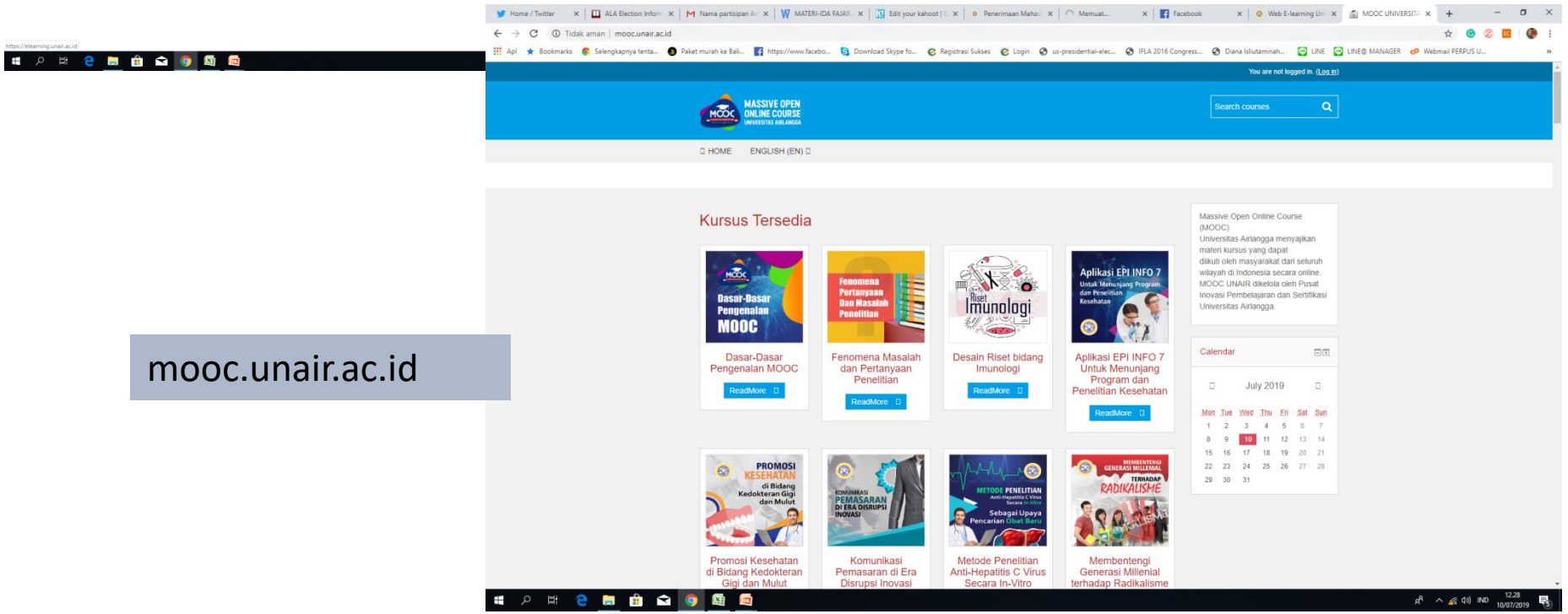
PERPUSTAKAAN
UNIVERSITAS AIRLANGGA

Learning and Teaching Methods

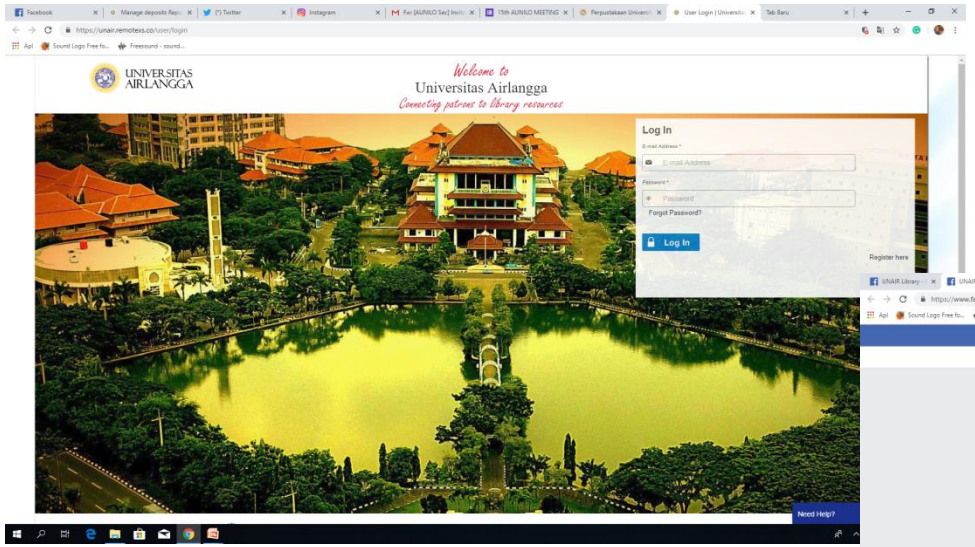




elearning.unair.ac.id



mooc.unair.ac.id

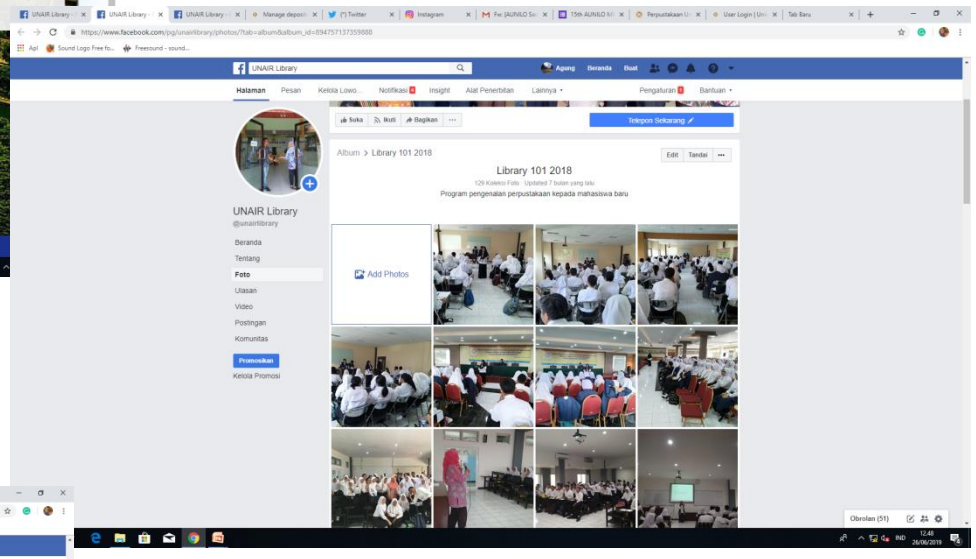


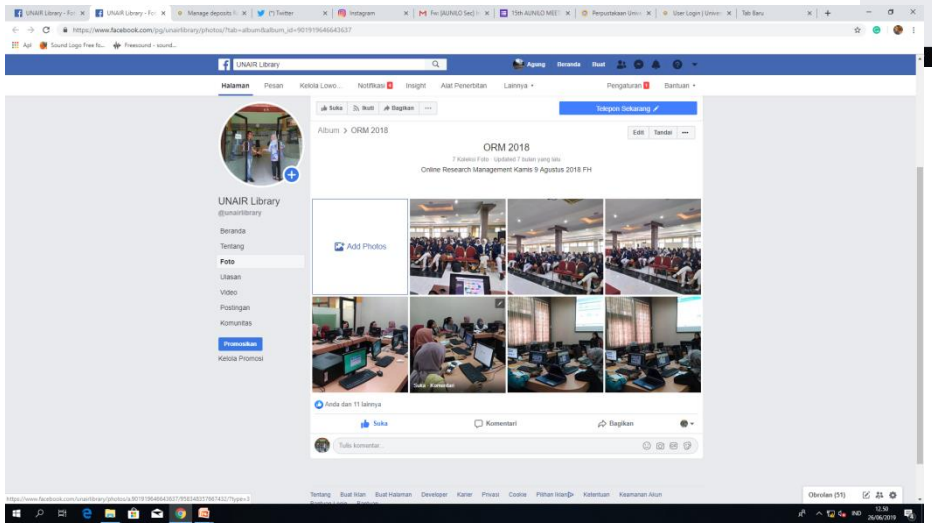
REMOTEXS SYSTEM

Free access our journal at home

LIBRARY 101

The basic information about our library

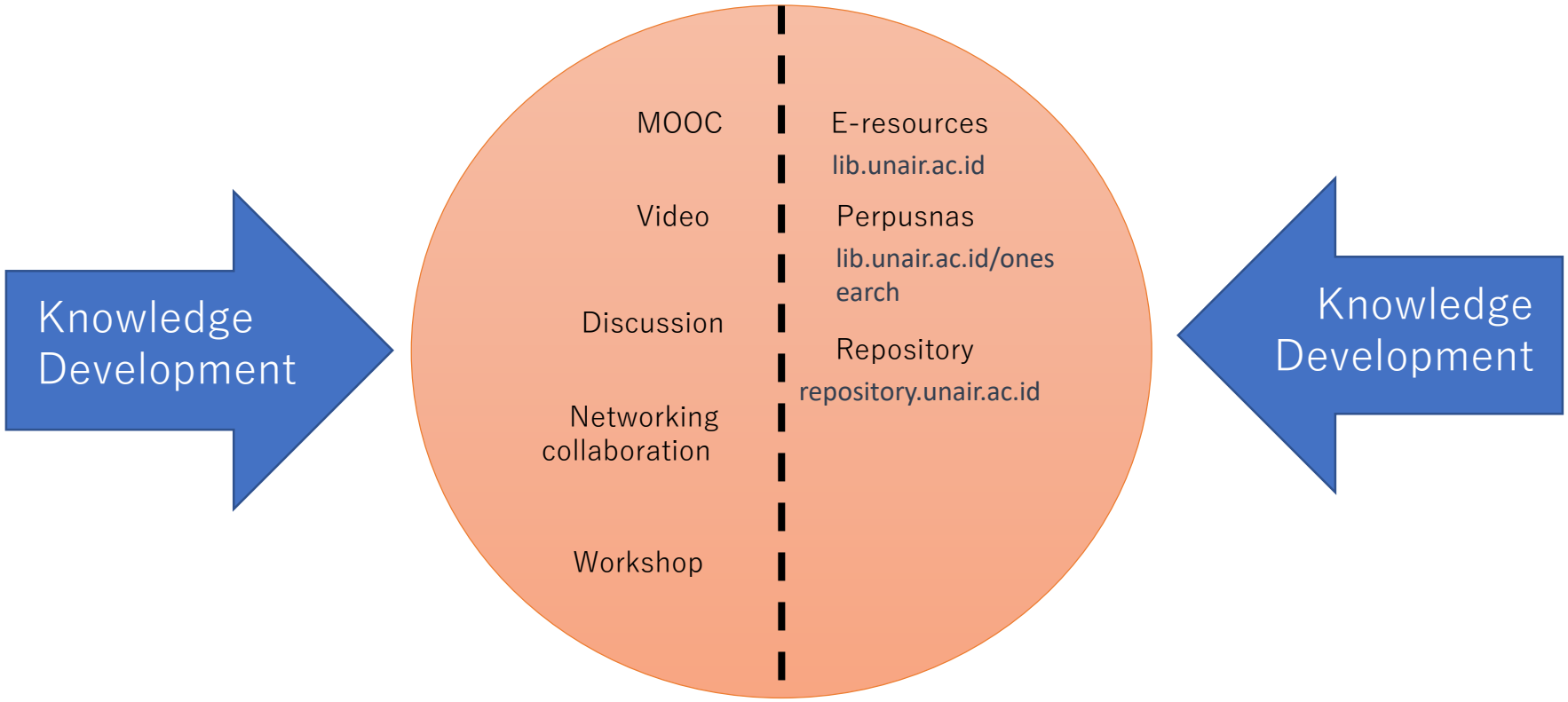




ORM

The tutorial, how to search article or how to use our journal

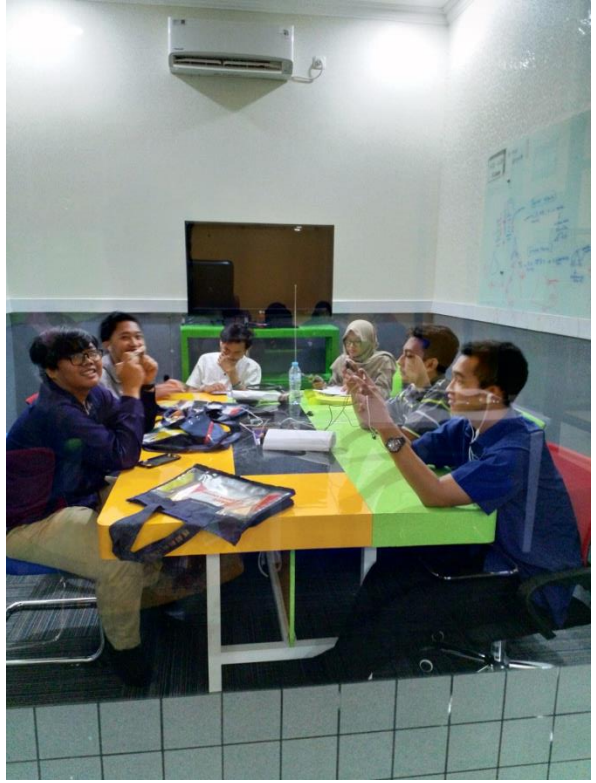
Library Roles in LMS Implementation to support learning & teaching process



SOFTSKILL ACTIVITIES

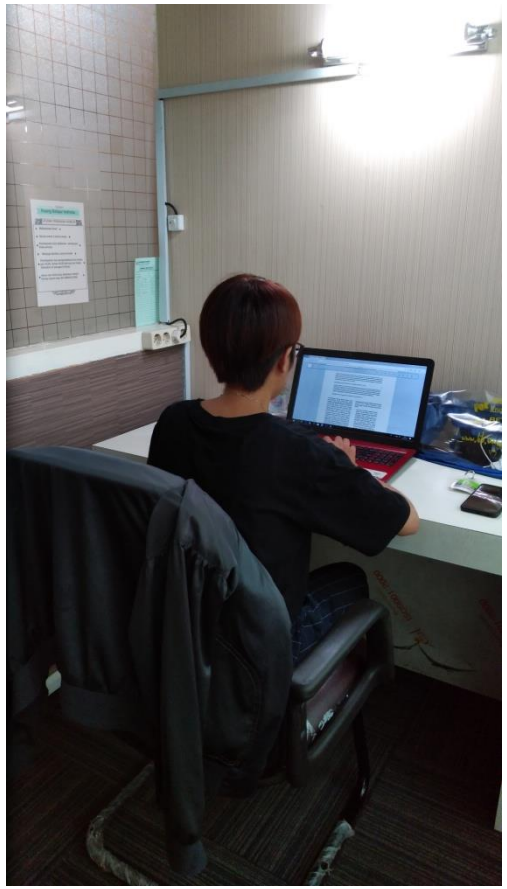
MUSICOUSTIC
Mini Concert

CHIT CHAT
Conversation in English



PARTANA
Group Studying Room

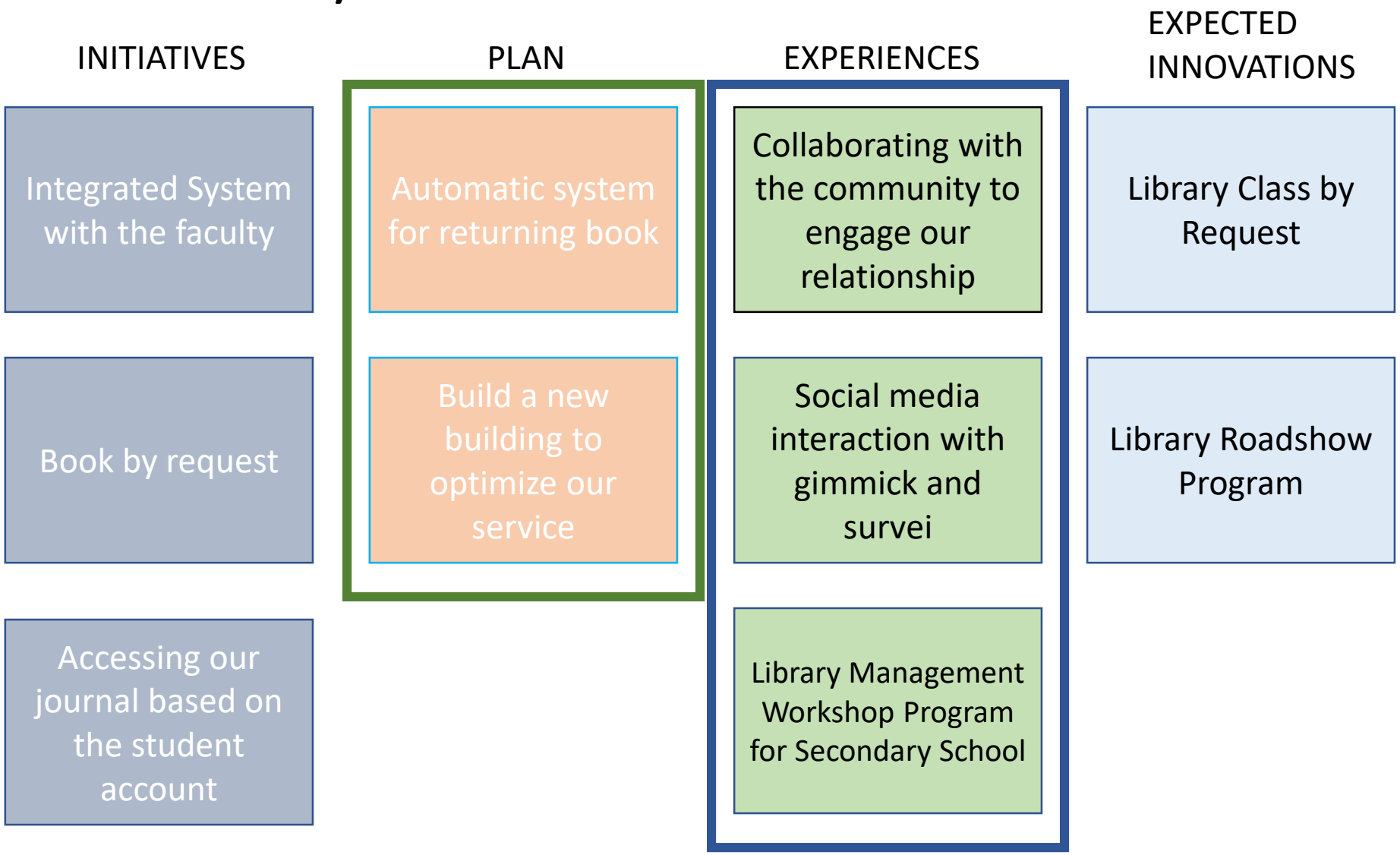
RUBELIN
Individual Studying Room



LIBRARY CAFE
Collboration Space for discussing
Food and Beverage allowed

DISCUSSING ROOM

UNAIR Library



Challenges and opportunities

CHALLENGES

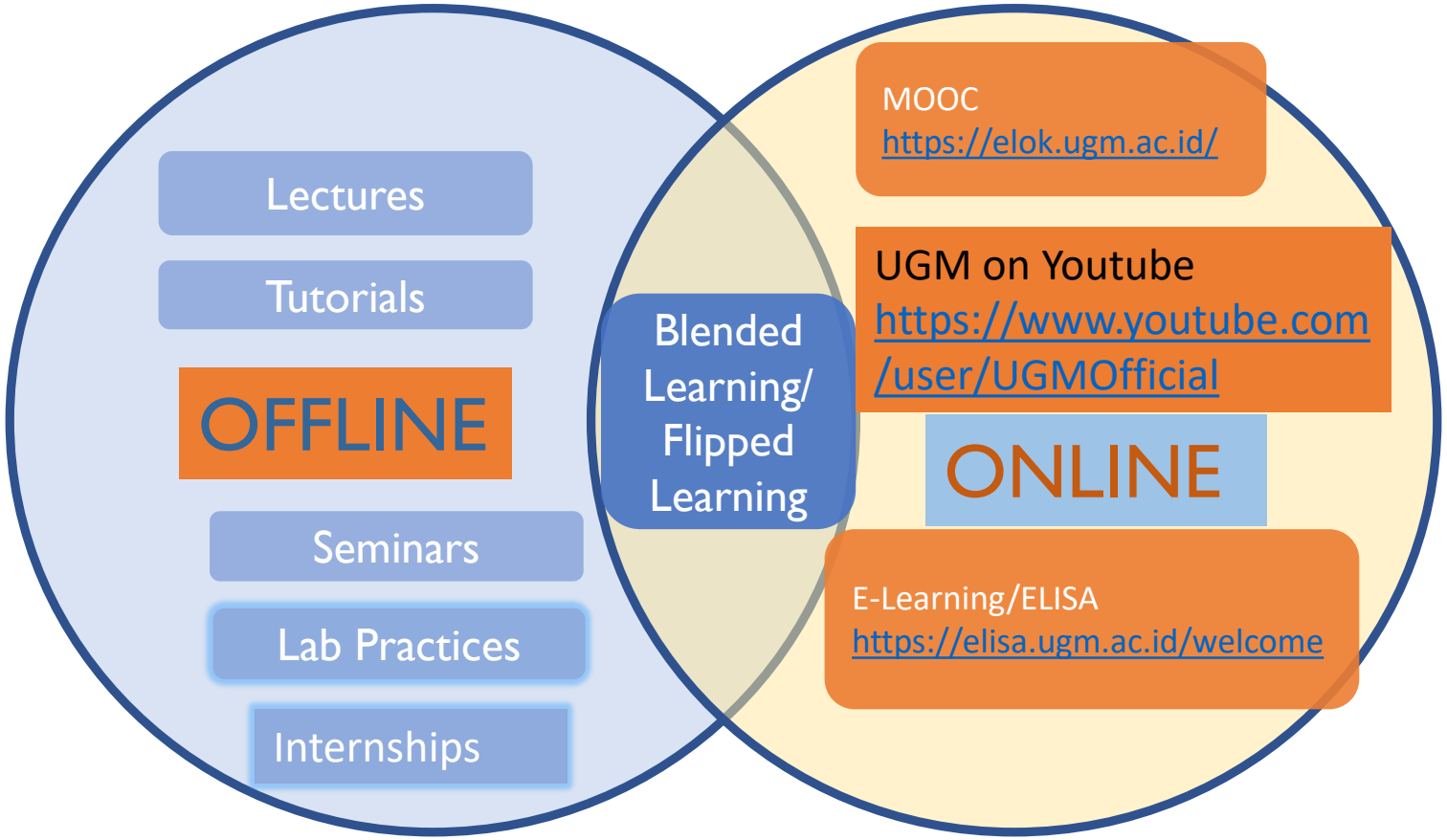
Technology infrastructure, Increasing the visitors especially our lecturer

OPPORTUNITIES

Library Networking, Human Resources (our librarian)

Berita
Arsip Berita
Simaster
Palawa
Webmail
Direktori
Indonesia
UNIVERSITAS
GADJAH MADA
TENTANG UGM
PENDIDIKAN
MAHASISWA
PENELITIAN
PENGABDIAN
PENDAFTARAN
Search ...
UNIVERSITAS GADJAH MADA

Learning and Teaching Methods at UGM



UNIVERSITAS GADJAH MADA

eLOK.ugm.ac.id

e-Learning: Open for Knowledge Sharing

eLOK adalah sebuah sistem *e-Learning* yang digunakan untuk implementasi MOOC (*Massive Open Online Courses*) di Universitas Gadjah Mada.

28

MITRA PERGURUAN TINGGI

Dari berbagai wilayah di Indonesia.

eLisa

Login

Berita UGM

Pelopor perguruan tinggi nasional berkelas dunia yang unggul dan inovatif,

eLOK UGM

MOOC UGM untuk khalayak umum sebagai kontribusi UGM untuk

eLisa Help Desk

Anda mengalami kendala dalam menggunakan eLisa? Silakan hubungi

Cari Komunitas

Cari

Biologi	Ekonomika dan Bisnis	Farmasi
Filsafat	Geografi	Hukum

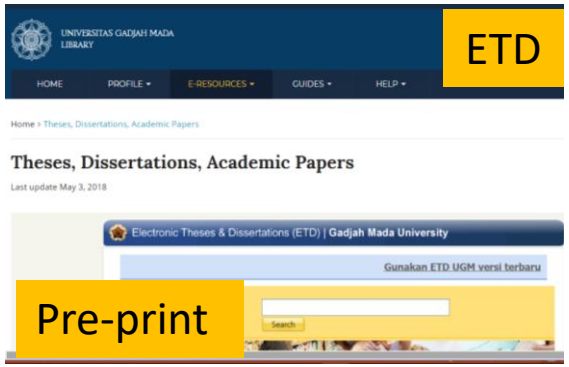
Library Roles in LMS Implementation to support learning & teaching process – Learning resources

- Print library collection (books, journals, proceedings, academic papers)
- Subscription-based commercial databases (e-databases, e-books, e-journals)
- Institutional repositories (etd.lib.ugm.ac.id; repository.ugm.ac.id)
- Digitized old/rare collection (langka.lib.ugm.ac.id/)
- Open Journal System (jurnal.ugm.ac.id)
- Local content/back issue UGM journals (i-lib.ugm.ac.id/jurnal/index.ph)

Resources

Subscribed databases)

ETD

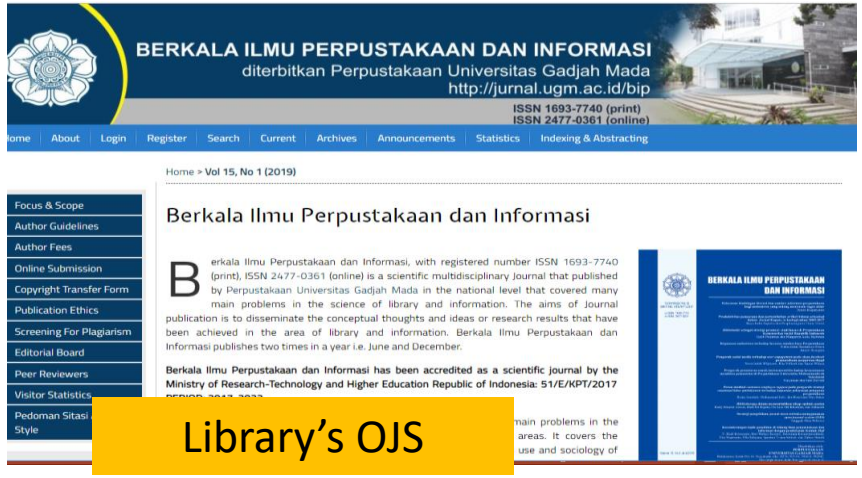


Pre-print

UGM Journals (back issues)

UGM OJS

Rare collection



Library's OJS

Library Roles in LMS Implementation to support learning & teaching process – Programs/Activities

- Information literacy
- Capacity building (Workshops, Trainings)
- Knowledge development (Seminars, Talk shows)
- Scholarly communication (Academic Writing, Antiplagiarism)
- Internships (part-time job in the library)
- Networking and collaboration
- Book donation (for students conducting community service)

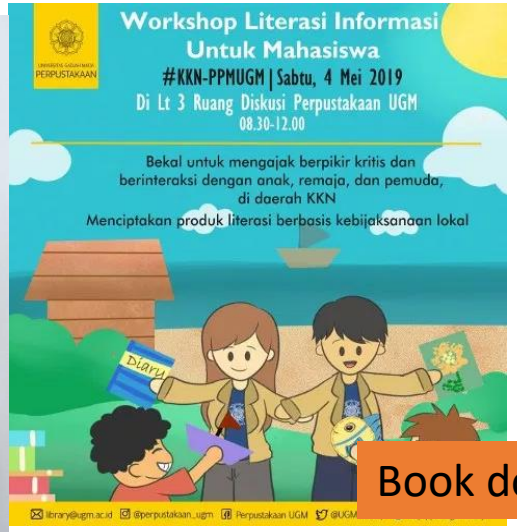
Programs/Activities

seminar

workshop

Talk show

internship



Book donation for community service

Networking & collaboration

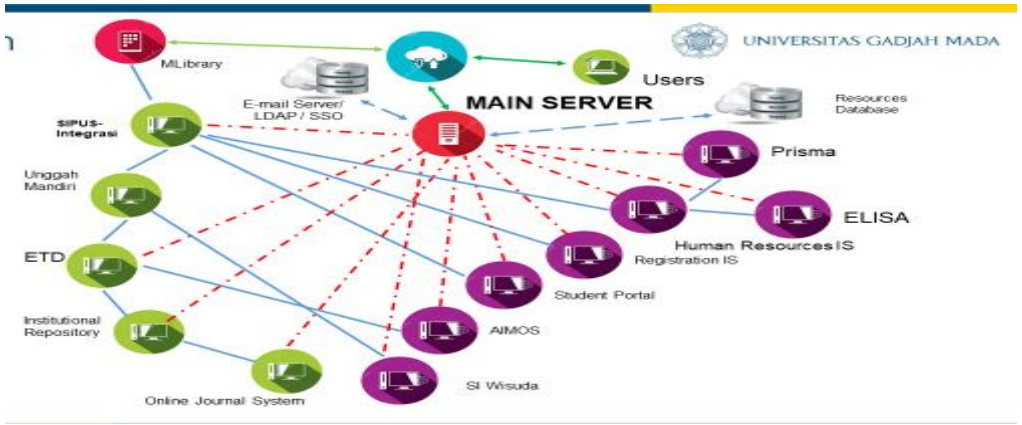
http://lib.ugm.ac.id/ind/?p=7152

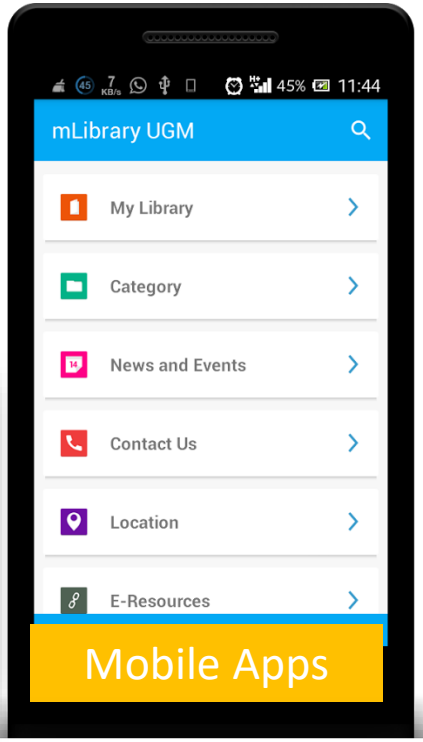
Library Roles in LMS Implementation to support learning & teaching process - Facilities

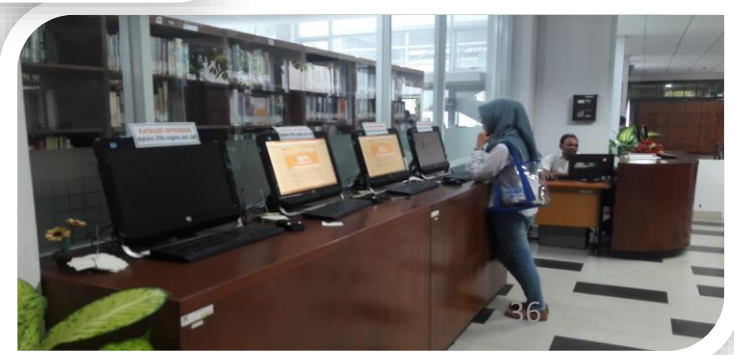
32 spots / 1920 users

Bandwidth

2 GB







Library initiatives, plans, experiences, and innovations

Initiatives

- Library automation system in 2000s
- Integrated library automation system since 2013
- Scholarly communication service
- Library part-time jobs for students' soft skills development
- External internship program for library staff development

Plans

- More facilities for makerspace and co-working space
- Research data management
- Dashboard to facilitate real time data of library in numbers
- Integration of library information system with LMS
- Establishment of digital scholarship center

Experiences

- Mobile apps since 2014
- Online submission of students' papers, theses, and dissertations
- Digitalization of rare collection
- Academic and research integrity (information literacy and antiplagiarism)

Innovations

- Book donation and information literacy program for students conducting community services in remote areas
- Integration of library information system with other systems within UGM to simplify business process and eliminate inefficiency

Opportunities and Challenges in delivering library programs & services

Challenges

- Increasing annual expenditure for online database subscription
- IT skills for library staff, esp for those of digital migrants category
- The need for more space as a co-learning and co-working space
- Silos among units within the campus that hinder integration and orchestration
- The need for well-formulated strategic planning on digital scholarship

Opportunities

- Optimum and appropriate utilization of technological advancement to support more effective and efficient business process in education, learning, research and community services
- Re-use of open educational resources for broader access and content enrichment
- Optimized use of big data and artificial intelligence

UNIVERSITAS INDONESIA
Veritas, Probitas, Iustitia

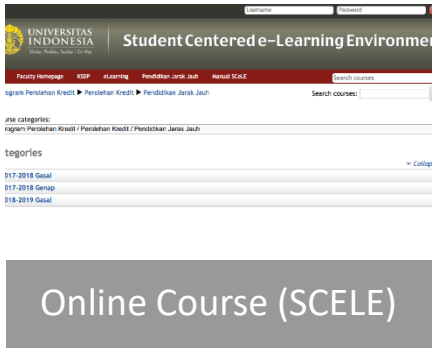
PERPUSTAKAAN

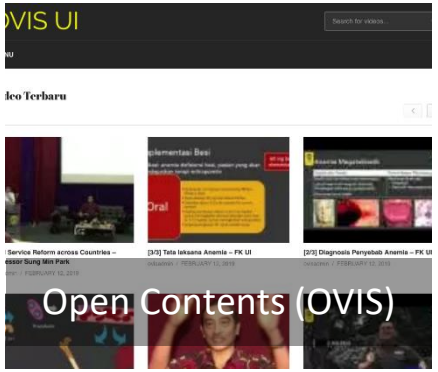
UNIVERSITAS INDONESIA

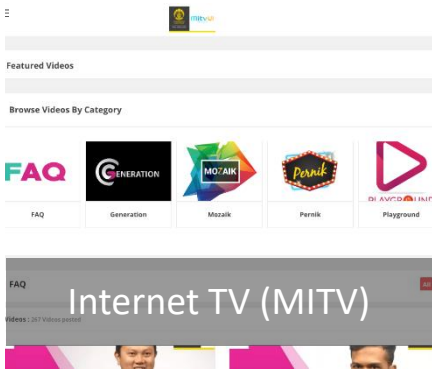
Learning and Teaching Methods

Offline

Online







via ui.ac.id

Library Roles in LMS Implementation to support learning & teaching process

Seminar, Workshop

Information Literacy Program

Internships in Library

Networking & Collaboration

E-resources

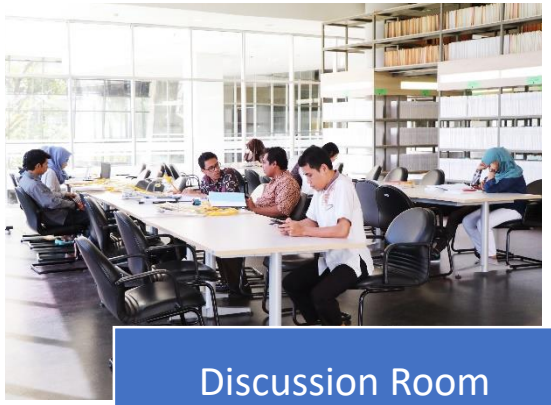
- Online Database (e-books, e-journals)
- Remote Access (remote-lib.ui.ac.id)
- Digital Collections (lib.ui.ac.id)
- Knowledge ATM

E-Services

- Online reference services (by e-mail)
- E-resources Delivery Services (EDS)
- Plagiarism prevention services

Library facilities to support learning & teaching process

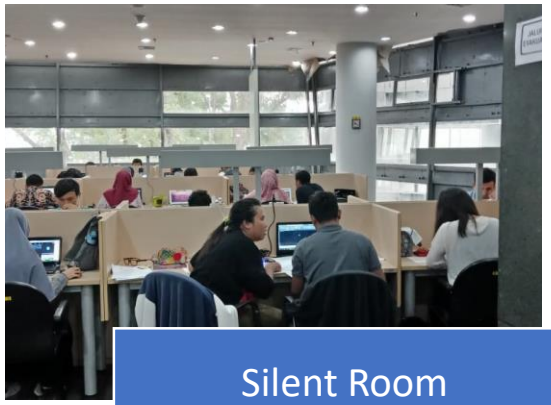
Cubicles (For Doctoral Students)



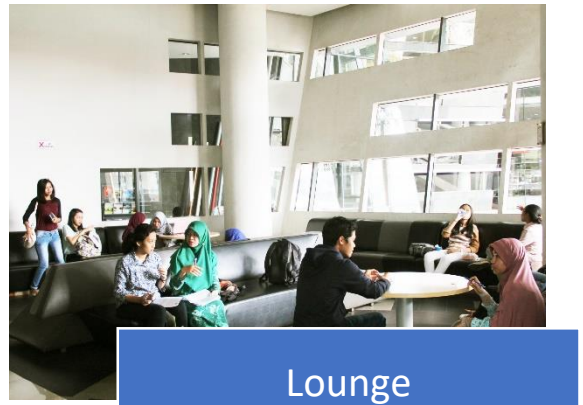
Discussion Room

Private Discussion Room

Internet Room



Silent Room



Lounge

Library initiatives, plans, experiences, and innovations

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Initiatives

- Integration of Library IT System and other related systems in UI (academic, human resources, etc.)
- Research library initiative to support research and academic activities at UI

Plans

- To map library business process related to other unit in UI
- To collaborate with university IT unit and Faculty of Computer Science
- To implement research integrity services and develop research integrity programs

Experiences

- Final assignment submission system (*lib.ui.ac.id/unggah*)
- Membership data integration with academic system (SIAK)
- Upgrade of library automation system (LONTAR)
- Research Integrity Services
- Plagiarism prevention services
- Offline & online reference services for professors

Innovations

- Library integration system with Center of Computer Science, UI
- Research Integrity Services

Other Innovations

Knowledge-Based Industry: Seminar, workshop, and exhibition about Indonesian knowledge

Traditional Gemstones

Herbal Medicine

Traditional Children Games

Traditional Clothing

Strategic Alliances with International & National Institutions

Public Lectures

Exhibitions

Workshops

Opportunities and Challenges in delivering the library programs & services for the millennial & post millennial generations

Challenges

Users are reluctant to come to the library because many information sources are available on the internet

Budget: E-resources subscription fee always increases every year

Resources: Need to improve IT skills of the librarians

Opportunities

The increasing of library virtual visits can be a momentum to develop digital services and collections

Rebranding of library as learning, discussion, and co-working spaces

Terima
Kasih