Course Syllabus

Code - Course Title	**TDE589 - Bibliometric Analysis**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. EMİNE KOLAÇ

Mode of Delivery	The mode of delivery of this course is face-to-face
Prerequisites	None
Courses Recomended	None
Recommended Resources	Andres, A. (2009). Measuring academic research: How to undertake a bibliometric study. Chandos Publishing. https://doi.org/10.1533/9781780630182Geiger, N., & Kufenko, V. (2019). Business cycles and economic crises: A bibliometric and economic history. Routledge.Briner, R. B. ve Denyer, D. (2012). Systematic review and evidence synthesis as a practice and scholarship tool. The Oxford Handbook of Evidence-Based Management içinde (ss. 112–129). Oxford University Press. doi:10.1093/oxfordhb/9780199763986.013.0007Donthu, N., Kumar, S., Mukherjee, D., Pandey, N., & Lim, W. M. (2021). How to conduct a bibliometric analysis: An overview and guidelines. Journal of Business Research, 133, 285–296. https://doi.org/10.1016/j.jbusres.2021.04.070Aria, M., & Cuccurullo, C. (2017). bibliometrix: An R-tool for comprehensive science mapping analysis. Journal of Informetrics, 11(4), 959-975. https://doi.org/10.1016/j.joi.2017.08.007Chatterjee, P., Saha, A., Kadry, S., & Demir, G. (Eds.). (2025). Bibliometric analyses in data-driven decision-making. John Wiley & Sons. https://doi.org/10.1002/9781394302581Murat, D. A. L., & İlhami, A. Y. (Eds.). (2025). Bibliyometrik Analiz III. Akademisyen Kitabevi.
Work Placement	None

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Bibliometric Analysis: Data collection, data organization, basic concepts	
Week - 2		Data Sources: Databases	
Week - 3		Source selection	
Week - 4		Data collection process	
Week - 5		Publication and Citation Analysis: Publication count, citation count, impact level	
Week - 6		Publication Distribution: Author, institution and country-based analysis	
Week - 7		Trend Analysis: Keywords, research topics and temporal changes	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 8		Network Analysis: Co-authorship, collaboration and connection structures	
Week - 9		AI-supported analysis tools: Data organization, visualization	
Week - 10		Use in the analysis process	
Week - 11		Validity and Reliability: Data accuracy	
Week - 12		Consistency and data diversity	
Week - 13		Reporting: Presentation of findings, use of tables and figures	
Week - 14		Academic writing	

Learning Outcomes

#	Learning Outcome
1	Explains the basic concepts of bibliometric analysis and the processes of data collection and data organization.
2	Evaluates data sources, databases and the source selection process used in bibliometric analysis.
3	Analyzes publication count, citation count and impact level in publication and citation analyses.
4	Evaluates publication distribution, trend analysis and network analysis data.
5	Evaluates AI-supported analysis tools, validity-reliability criteria and reporting processes.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0

AKTS Workload

Activity	Duration (Hour)	Count	Workload
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**