



Universitas Negeri Surabaya
Faculty of Social and Legal Sciences
Communication Science Bachelor Study Program

Document
Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Data Journalism	7020103137		T=3	P=0	ECTS=4.77	5	August 9, 2023

AUTHORIZATION	SP Developer	Course Cluster Coordinator	Study Program Coordinator
	Dr. Anam Miftakhul Huda, S.Kom., M.I.Kom.

Learning model	Project Based Learning
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Program Learning Outcomes (PLO)	PLO study program that is charged to the course						
	PLO-9	Able to produce message content for various communication purposes using various types of communication channels, both conventional channels and digital channels, which are beneficial to society and in accordance with applicable legal, social and ethical norms.					
	Program Objectives (PO)						
	PO - 1	Students are able to independently develop a professional data journalism-based coverage plan					
	PO - 2	Students are able to produce data journalism products by applying information and communication technology					
	PLO-PO Matrix						
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>P.O</td> <td>PLO-9</td> </tr> <tr> <td>PO-1</td> <td></td> </tr> <tr> <td>PO-2</td> <td></td> </tr> </table>	P.O	PLO-9	PO-1		PO-2
P.O	PLO-9						
PO-1							
PO-2							

PO Matrix at the end of each learning stage (Sub-PO)																																																																				
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td rowspan="2">P.O</td> <td colspan="16">Week</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> <tr> <td>PO-1</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PO-2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	PO-1																	PO-2																
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Short Course Description	This course describes the journalistic process based on the analysis and filtering of large datasets with the aim of producing news. The main drivers for this data journalism process are open source software, open access publishing and open data.
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References	Main :	
		<ol style="list-style-type: none"> Gray, J. Chambers, L. & Bounegru, L. (2012). The Data Journalism Handbook. O’Rielly Media Howard, A. B. (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School. Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.
	Supporters:	

Supporting lecturer	Dr. Eko Pamuji, M.I.Kom. Gilang Gusti Aji, S.I.P., M.Si.
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Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

1	Introduction to the Course	1.Syllabus presentation; And 2.A brief history and development of Data Journalism	Criteria: Measures understanding with a maximum score of 100 Form of Assessment : Participatory Activities	3 x 50		Material: Brief history and development of Library Data Journalism: <i>Gray, J. Chambers, L. & Bounegru, L. (2012). The Data Journalism Handbook. O'Rielly Media</i>	2%
2	Introduction to Data Journalism	1.Definition of Data Journalism 2.Day-to-day Journalism vs Data Journalism 3.Data Journalism vs Investigating Journalism	Criteria: Measures understanding with a maximum score of 100 Form of Assessment : Participatory Activities	3 x50		Material: Definition, differences and comparison of Data Journalism with other forms of journalism Reference: <i>Gray, J. Chambers, L. & Bounegru, L. (2012). The Data Journalism Handbook. O'Rielly Media</i>	2%
3	Finding Data	1.Introduction to Open Data (Open Data) 2.Introduction to Data Portal (International, Asia and Indonesia) 3.Other data sources (Crowdsourcing) 4.Collecting Meaningful Data	Criteria: Measures understanding with a maximum score of 100 Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	3 x50		Material: Analyzing the discovery of various data. References: <i>Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.</i>	4%
4	Collecting Data	1.Foi (Freedom of Information) for international data 2.Public Information Disclosure Act	Criteria: Measures understanding with a maximum score of 100 Form of Assessment : Participatory Activities	3 x50		Material: Data collection Bibliography: <i>Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.</i>	3%
5	Data Scraping	1.Found interesting data 2.Scraping Data from Websites	Criteria: Measures understanding with a maximum score of 100 Form of Assessment : Participatory Activities, Practical Assessment	Lectures, Discussions 3x50		Material: Data Scraping Bibliography: <i>Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.</i>	4%

6	Data Cleaning	<p>1.Cleaning Data using open source tools (eg Open Refine)</p> <p>2.Verifying Data</p> <p>3.Interviewing Data</p>	<p>Criteria: Measures understanding with a maximum score of 100</p> <p>Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment</p>	3 x50		<p>Material: Cleaning Library Data: <i>Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.</i></p>	4%
7	Analyzing Data	Analyzing Data using Spreadsheets	<p>Criteria: Measures the implementation of theory with a maximum score of 100</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	3 x 50		<p>Material: Analyzing various types of data References: <i>Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.</i></p>	4%
8	Midterm Exam (UTS)	Measure theoretical understanding through a written test with a maximum score of 100	<p>Criteria: 14</p> <p>Form of Assessment : Test</p>	Written comprehension test 3x50		<p>Material: Data Driven Journalism Bibliography: <i>Howard, AB (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School.</i></p>	20%
9	Introduction to Data Visualization	<p>1.Types of Data Visualization</p> <p>2.Finding the right Data Visualization</p>	<p>Criteria: Measures understanding with a maximum score of 100</p> <p>Form of Assessment : Participatory Activities</p>	3 x50		<p>Material: Introduction to Data Visualization Bibliography: <i>Howard, AB (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School.</i></p>	5%

10	Data Visualization: Infographics	1.Data Visualization with Infographics 2.Introduction to Infograms	Criteria: Measures understanding with a maximum score of 100 Form of Assessment : Project Results Assessment / Product Assessment	3 x 50		Material: Data Visualization: Infographics References: Howard, AB (2014). <i>The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us.</i> Columbia Journalism School.	4%
11	Data Visualization: Infographics	Finding Datasets and creating infographics	Criteria: Measuring the implementation of theory through projects with a maximum score of 100 Form of Assessment : Project Results Assessment / Product Assessment	3 x50		Material: Data Visualization: Infographics References: Howard, AB (2014). <i>The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us.</i> Columbia Journalism School.	5%
12	Data Visualization: Interactive Data Visual	Case Study Interactive Visual Data	Criteria: Measuring the implementation of theory through projects with a maximum score of 100 Form of Assessment : Project Results Assessment / Product Assessment	3 x50		Material: Data Visualization: Interactive Data Visual References: Howard, AB (2014). <i>The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us.</i> Columbia Journalism School.	4%

13	Basic Maps	<p>1.Introducing Open Source Data Maps</p> <p>2.How to present data with Maps</p> <p>3.Variety of Interactive Data Maps Stories</p>	<p>Criteria: Measuring the implementation of theory through projects with a maximum score of 100</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	3 x50		<p>Material: Open Source Data Maps, various presentations, etc.</p> <p>References: <i>Howard, A.B. (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School.</i></p>	4%
14	Basic Maps	Create news with Basic Maps	<p>Criteria: 5</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	3x50		<p>Material: Open Source Data Maps, various presentations, etc.</p> <p>References: <i>Howard, A.B. (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School.</i></p> <p>Material: Presentation of news using basic maps\</p> <p>Reference: <i>Howard, AB (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School.</i></p>	5%

15	Storytelling with Data	1. Case Study Data-Driven Journalism 2. Example of storytelling with data	Criteria: Progress of preparing analytical articles with a maximum score of 100 Form of Assessment : Project Results Assessment / Product Assessment	3x50		Material: Storytelling with Data Bibliography: <i>Bounegru, L. & J. Gray (eds.). (2021). The data journalism handbook: Towards a critical data practice. Amsterdam University Press.</i>	5%
16	Final Semester Examination (UAS)	The final result of preparing an article with a maximum score of 100	Criteria: Complete a project with a maximum score of 100 Form of Assessment : Project Results Assessment / Product Assessment	Projects		Material: Data Driven Journalism Bibliography: <i>Howard, AB (2014). The art and science of data-driven journalism: When journalists combine new technology with narrative skills, they can deliver context, clarity, and a better understanding of the world around us. Columbia Journalism School.</i>	25%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	18%
2.	Project Results Assessment / Product Assessment	60%
3.	Practical Assessment	2%
4.	Test	20%
		100%

Notes

- Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment:** test and non-test.
- Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.

