
 Universitas Airlangga	<b>SEMESTER LEARNING PLAN</b>		<b>Prepared by</b>	<b>Examined by</b>	<b>Approved by</b>	<b>Document Registration Number</b>
	<b>SLP</b>		<b>(Person in Charge)</b>	<b>(Head of Bachelor Program / Head of Department)</b>	<b>Vice Dean I</b>	01/S1Kesmas/RPS/2019
	<b>Revision - Date</b>	<b>January 1<sup>st</sup>, 2019</b>	Tito Yustiawan, drg., M.Kes.	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
<b>Valid on Semester (gasal/genap) / Academic Year</b>	<b>Odd Semester 2019/2020</b>	<b>((sign))</b>	<b>((sign))</b>	<b>((sign))</b>		
<b>Faculty of Public Health</b>						

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## A. DETAILS OF COURSE


<b>1. Course Name</b>	Health Management Information System
<b>2. Course Code</b>	SID301
<b>3. Credits (SKS)</b>	2 (two) SKS
<b>4. Semester / Term</b>	7 (seventh)
<b>5. Study Program</b>	Bachelor of Public Health
<b>6. Student Learning Achievement</b>	At the end of course, students will be able to: <ol style="list-style-type: none"> <li>1. Explain the concept and principals in developing information system of health and hospital management</li> <li>2. Design instruments and action plan of implementation and control of health and hospital management information system</li> </ol>
<b>7. Course Learning Achievement</b>	Determine data use and limitation Evaluate data integrity and comparability Use ethical principals in collecting data and information Make relevant inference from quantitative and qualitative data Take and interpret data and information related to risk and profit Apply data collection process and information technology application Use the media, technology, and network to spread information Represent accurate information on demography, statistics, program, and science to professional community
<b>8. Course Description</b>	This course studies the basic concept and scope of management of information system of the following topics: <ol style="list-style-type: none"> <li>1. Basic concept of SIM Kes (Health Management Information System) and RS (Hospital), including: <ol style="list-style-type: none"> <li>a. Definition of management information system</li> <li>b. Role and function of management information system</li> <li>c. Development of management information system</li> <li>d. Sub-system in management information system</li> <li>e. Forms of SIM Kes and RS</li> </ol> </li> <li>2. Planning of SIM Kes and RS, including: <ol style="list-style-type: none"> <li>a. User information requirement assessment</li> <li>b. System analysis and development</li> <li>c. Data quality management</li> </ol> </li> </ol>

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	<ul style="list-style-type: none"> <li>d. Information quality management</li> <li>3. Organization of management information system, including: <ul style="list-style-type: none"> <li>a. Main task, role and function of SIM Kes and RS manager</li> <li>b. Parties involved in the management of SIM Kes and RS</li> <li>c. Development of SIM Kes and RS operational policy</li> </ul> </li> <li>4. Implementation of management information system, including: <ul style="list-style-type: none"> <li>a. Clinical management information system</li> <li>b. Inventory management information system</li> <li>c. Emergency management information system</li> <li>d. Referral management information system</li> </ul> </li> <li>5. Control of management information system, including: <ul style="list-style-type: none"> <li>a. Quality assurance of management information system</li> <li>b. Education and training in the implementation of management information system</li> </ul> </li> </ul> <p>Monitoring and evaluation of management information system</p>
<b>9. Course Prerequisites (if any)</b>	Basic of Health Policy and Administration ; Basic of Hospital and Primary Healthcare Administration
<b>10. Instructor</b>	Tito Yustiawan, drg., M.Kes.
<b>11. Teaching Assistants</b>	Tito Yustiawan, drg., M.Kes. Ratna Dwi Wulandari, S.KM., M.Kes.

## B. TEACHING PROGRAM

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Faculty of Public Health	Valid on Semester (gasal/genap) / Academic Year	Odd Semester 2019/2020	((sign))	((sign))	((sign))	


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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome ( <i>hard dan soft skills</i> )	Mark / Grade / Percentage (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
1	Students are able to comprehend and re-explain the basic concept of Health and RS management information system	1. Definition of Health and RS management information system 2. Role and function of Health and RS management information system 3. Development of management information system needs in Health and RS sector 4. Sub-system in Health and RS management information system	1. Lectures 2. Discussions	LCD, Whiteboard.	2x50 minutes		1. Critical thinking 2. Communication skill		1-11

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1	2	3	4	5	6	7	8	9	10
2	Students are able to comprehend and re-explain the basic principles of SIM Kes and RS development	1. Principals and prerequisites of SIM Kes and RS development 2. Development steps of Health and RS management information system (system development life cycle) 3. Forms of Health and RS management information system 4. Effectiveness of Health and RS management	1. Lectures 2. Discussions	LCD, Whiteboard.	2x50 minutes		1. Critical thinking 2. Communication skill		1-11

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1	2	3	4	5	6	7	8	9	10
		information system							
3	Students are able to develop user requirement assessment instrument	<ol style="list-style-type: none"> <li>1. Definition of user requirement</li> <li>2. Role and function of user requirement</li> <li>3. Steps of user requirement</li> <li>4. Effectiveness of user requirement</li> <li>5. Practice on designing user requirement instrument</li> </ol>	<ol style="list-style-type: none"> <li>1. Presentations</li> <li>2. Discussions</li> <li>3. Individual assignments</li> </ol>	LCD, Whiteboard.	2x50 minutes		<ol style="list-style-type: none"> <li>1. Critical thinking</li> <li>2. Communication skill</li> <li>3. Innovation skill</li> </ol>		1-11
4	Students are able to develop system flow chart in health and RS	<ol style="list-style-type: none"> <li>1. Definition of analysis system and flow chart</li> <li>2. Role and function of</li> </ol>	<ol style="list-style-type: none"> <li>1. Presentations</li> <li>2. Discussions</li> <li>3. Individual assignments</li> </ol>	LCD, Whiteboard.	2 x 50 minutes		<ol style="list-style-type: none"> <li>1. Critical thinking</li> <li>2. Communication skill</li> </ol>		1-11

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1	2	3	4	5	6	7	8	9	10
		analysis system and flow chart 3. Steps of system analysis 4. Steps of designing flow chart 5. Practice on developing flow chart					3. Inovation skill		
5	Students are able to develop Health and RS data quality assessment instrument	1. Definition of data quality management 2. Role and function of data quality management 3. Dimensions of data quality management	1. Presentations 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill 3. Inovation skill		1-11

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<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
		4. Steps of data quality management 5. Practice on designing Health and RS data quality assessment instrument							
6	Students are able to develop assessment instrument for Health and RS management information quality	1. Definition of information quality management 2. Role and function of information quality management 3. Dimensions of information quality management	1. Presentations 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill 3. Innovation skill		1-11

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1	2	3	4	5	6	7	8	9	10
		4. Steps of information quality management 5. Practice on designing assessment instrument for Health and RS management information quality							
7	Students are able to design SIM Kes and RS governance	1. Definition of IT Governance 2. Role and function of IT governance 3. Crucial areas in IT Governance 4. Role of operational	1. Presentations 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill 3. Innovation skill		1-11



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1	2	3	4	5	6	7	8	9	10
		policy in IT Governance 5. Practice on designing SIM Kes and RS Governance							
<b>MID-TERM EXAMINATION</b>									
8	Students are able to identify the characteristics and functions of some SIM Kes and RS application program	1. Characteristics and functions of clinical management information system 2. Characteristics and functions of inventory management information system 3. Characteristics and functions of emergency	1. Lectures 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill		1-11

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1	2	3	4	5	6	7	8	9	10
		management information system 4. Characteristics and functions of referral management information system							
9	Students are able to design SIM Kes and RS quality assurance program	1. Definition of SIM Kes and RS quality assurance 2. Role and function of SIM Kes and RS quality assurance 3. Crucial areas in SIM Kes and RS quality	1. Presentations 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill 3. Innovation skill 4. Program development skill		1-11

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1	2	3	4	5	6	7	8	9	10
		assurance program 4. Form of program and quality indicators of SIM Kes and RS 5. Practice on designing SIM Kes and RS quality assurance program							
10	Students are able to design education program and training of SIM Kes and RS implementation	1. Definition of education and training of SIM Kes and RS 2. Role and function of education and	1. Presentations 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill 3. Innovation skill		1-11

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1	2	3	4	5	6	7	8	9	10
		training of SIM Kes and RS 3. Unsur dan pelaku dalam edukasi dan pelatihan SIM Kes and RS 4. Practice on designing education and training program (learning and training needs analysis)					4. Program development skill		
11	Students are able to design monitoring and evaluation program of SIM Kes and RS	1. Definition of monitoring and evaluation of SIM Kes and RS 2. Role and function of	1. Presentations 2. Discussions 3. Individual assignments	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill 3. Innovation skill		1-11

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1	2	3	4	5	6	7	8	9	10
		monitoring and evaluation of SIM Kes and RS 3. Steps of monitoring and evaluation of SIM Kes and RS 4. Crucial areas of monitoring and evaluation of SIM Kes and RS 5. Practice on designing monitoring and evaluation program of SIM Kes and RS					4. Program development skill		
12	Students are able to re-explain concept and	1. Definition of e-health,	1. Lectures 2. Discussions	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking		1-11

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1	2	3	4	5	6	7	8	9	10
	application of e-health, telemedicine, and telecare in the 21 <sup>st</sup> century	telemedicine, telecare 2. Role and function of e-health, telemedicine, telecare 3. Elements of e-health, telemedicine, telecare 4. Principals and effectiveness of e-health, telemedicine, telecare development	3. Individual assignments				2. Communication skill		
13.	Students are able to conduct review on all principals and methods in management	Capita-Selecta. Grand Quiz.	Discussions	LCD, Whiteboard.	2 x 50 minutes		1. Critical thinking 2. Communication skill		1-11

FINAL EXAMINATION

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### C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Wolper LF, 2011. Healthcare Administration: Managing Organized Delivery System. 5<sup>th</sup> ed. Jones and Bartlett. Massachusetts. USA.
2. Dunn R, 2002. Haimann's: Healthcare Management. 7<sup>th</sup> ed. Health Administration Press. Chicago. USA.
3. Austin CJ. Boxerman SB. 2008. Information System for Healthcare Management, 7<sup>th</sup> ed. Health Administration Press. Chicago. USA.
4. Undang – undang No. 11 Tahun 2008
5. Undang – undang No. 36 Tahun 2009
6. Undang – undang No. 44 Tahun 2009
7. Peraturan Presiden No. 72 Tahun 2012
8. Peraturan Pemerintah No. 46 Tahun 2014
9. Peraturan Menteri Kesehatan No. 1171 Tahun 2011
10. Peraturang Menteri Kesehatan No. 82 Tahun 2013
11. Peraturan Menteri Kesehatan No. 92 Tahun 2014