



SEMESTER LEARNING PLAN

DEPARTMENT: URBAN AND REGIONAL PLANNING

FACULTY: CIVIL, PLANNING, AND EARTH

COURSES NAME	PLANNING PRESENTATION TECHNIQUE/ PLANNING COMPUTATION	
COURSES CODE	DK184202	
SEMESTER	II	
CREDITS	2 SKS (3.2 ECTS)	
LECTURER	Nursakti Adhi P, ST, MSc	
	Surya Hadi Kusuma, ST, MT	
	Fendy Firmansyah, ST, MT	
	Ummi Fadlilah K, ST, MT, Msc	
COURSE METHODOLOGY	<ul style="list-style-type: none"> a. Concept of Data b. Spatial Theory and Data c. Spatial approach 	
PROGRAM LEARNING OUTCOME (PLO)		
SPEIFIC KNOWLEDGE	1.1	Able to apply the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques
SPEIFIC SKILLS	2.2	Able to utilize ICT in the management of data to produce information that is easily understood by the public and the decision makers
COURSE LEARNING OUTCOME (CLO)		
SPEIFIC KNOWLEDGE	Students master presentation techniques and able to use visualization support tools in spatial arrangement	
SPEIFIC SKILLS	Students are able to present intensity of land data survey results in communicative, effective, and informative way	
	Students are able to apply various multimedia visual communication in urban planning	
	Students are able to create maps according to urban planning needs	
	Students are able to identify the need for data on the basic building layout / spatial utilization index	
	Students are able to apply ArcGis Program in Spatial Planning	
	Students are able to apply AutoCAD Program in Spatial Planning	
	Students are able to apply Sketch Up Program in Spatial Planning	
Students are able to apply Corel Draw Program in Spatial Planning		

MAP OF PLO TO CLO	CLO	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5	PLO-6	PLO-7	PLO-8	PLO-9	PLO-10	PLO-11	
	CPMK-1. Students master presentation techniques and are able to use visualization support tools in spatial arrangements		1				1						
	CPMK-2. Students are able to apply a variety of multimedia visual communication in urban planning.		1			1							
	CPMK-3. Students are able to make maps according to city planning needs		1			1							
	CPMK-4. Students are able to identify data needs about the basics of building layout / space utilization index		1										
	CPMK-5. Students are able to apply ArcGIS in spatial planning		1			1							
	CPMK-6. Students are able to apply AutoCad Program in spatial planning					1							
	CPMK-7. Students are able to apply sketch up programs in spatial planning.					1							
	CPMK-8. Students are able to apply Corel Draw Program in spatial planning					1							
	Module												
1. Communication and Presentation in Urban Planning													
2. Visualisation and tools supporting planning													
3. The basics of mapping													
4. Utilization of ArcGIS for Mapping (Rectification, Digitization, Data Input, and Layouting)													

5. Utilization of Sketch up in spatial planning

6. The basics of communication and presentation techniques

**PLANNING PRESENTATION TECHNIQUE/ PLANNING COMPUTATION COURSE LEARNING PLAN
EVEN SEMESTER OF ACADEMIC YEAR 2021–2022**

Tatap Muka	COURSE LEARNING OUTCOME	LESSONS LEARNING OUTCOME	MODULE	LEARNING OUTCOME (from weeklyModule)	Scope	Learnin g Methods (Week 1-7)	Course Duration (minutes)	Modes of Delivery (Presentation, task, discussion, quice, practice)	Grading Policy	Asses sment (%)
1	2	3	4	5	6	7	8	9	10	11
1st Week	Students are able to present intensity of land data survey results in communicative, effective, and informative way	Students are able to process survey data using planning media and tools	Communication and Presentation in Urban Planning	Students master presentation techniques and able to use visualization support tools in spatial arrangement	<ul style="list-style-type: none"> • Introduction to Planning Computation • RPBK course of Planning Computation • Communication and Presentation in Urban Planning 	M2,M3, M4	150	Discussion, Lecture		0
		Students are able to display survey data using various multimedia visual communicatio n		Students are able to present intensity of land data survey results in communicative, effective, and informative way						
2nd Week	Students are able to apply various multimedia visual communication in urban planning	Students are able to display survey data using various multimedia visual communicatio n	Visualisationand tools supporting planning	<ul style="list-style-type: none"> • Students are able to understand and represent data into spatial products (RTRW, RDTR, RTBL, PZ, etc.) • Students are able to 	<ul style="list-style-type: none"> • Visualization in Planning Product and Planning Survey Techniques Visualization Support Tools Visual Communication Multimedia in Urban Planning 	M2,M3,M4	150	Discussion, Lecture		0

				<p>understand visualization support tool</p> <ul style="list-style-type: none"> • Students are able to understand various multimedia visual communication in urban planning 						
3rd Week	Students are able to identify the need for data on the basic building layout / spatial utilization index	Students are able to identify elements and various types of maps	The basics of mapping	<ul style="list-style-type: none"> • Students can understand basics cartography theory in planning • Students are able to understand the concepts and theories about the basic building layout / space utilization index. 	<p>Introduction to Fundamentals of Cartography</p> <ul style="list-style-type: none"> • Definition of Maps • Basic Understanding of the Function of Maps and their Typology • Map Types • Elements in Map • Basic Map (Topographic Map) • Map Generalization • Map Design <p>Introduction to Fundamentals of Building Management (KDB, KLB, GSB, Building envelope, inter-</p> <ul style="list-style-type: none"> • building 	M2,M3,M4		Discussion, Lecture		0

					distance)					
4th Week	Students are able to create maps according to urban planning needs	Students are able to identify the need for data on the basic building layout / spatial utilization index in urban planning	Utilization of ArcGIS for Mapping (Rectification, Digitization, Data Input, and Layouting)	<ul style="list-style-type: none"> Students are able to run and apply the ArcGIS Program in spatial planning 	ArcGIS Program Application: Rectification	M2,M3,M4	480	Lecture, Practicum		0
				<p>Students are able to answer correctly and precisely various questions related to the material that has been given in week 1 - 3 online through e-learning</p> <ul style="list-style-type: none"> media 	Week 1-3 Materials		100	Quiz	Answering e-learning questions correctly	10
5th Week	Students are able to create maps according to urban planning needs	Students are able to identify the need for data on the basic building layout / spatial	Utilization of ArcGIS for Mapping (Rectification, Digitization, Data Input, and Layouting)	Students are able to run and apply the ArcGIS Program in spatial planning	Utilization of ArcGIS for the mapping: Digitization	M2,M3,M4	480	Lecture, Practicum		0

		utilization index In urban planning								
6th Week	Students are able to create maps according to urban planning needs	Students are able to identify the need for data on the basic building layout / spatial utilization index In urban planning	Utilization of ArcGIS for Mapping (Rectification, Digitization, Data Input, and Layouting)	Students are able to run and apply the ArcGIS Program in spatial planning	Utilization of ArcGIS for the mapping: Data input	M2,M3,M4	480	Lecture, Practicum		0
7th Week	Students are able to create maps according to urban planning needs	Students are able to identify the need for data on the basic building layout / spatial utilization index In urban planning	Utilization of ArcGIS for Mapping (Rectification, Digitization, Data Input, and Layouting)	Students are able to run and apply the ArcGIS Program in spatial planning	Utilization of ArcGIS for the mapping: Layouting	M2,M3,M4	480	Lecture, Practicum		0
							480	Evaluation of ArcGIS practice		20

8th Week	Students are able to apply AutoCAD Program in Spatial Planning	Students are able to process data into AutoCad program.	Utilization of AutoCad in spatial planning	Students are able to run and apply the AutoCAD Program in spatial planning	AutoCAD Program Application	M2,M3,M4	480	Lecture, Practicum	Students are able to apply AutoCad program into case study given by Lecturer or Assistant Lecturer	
							480	Evaluation of AutoCAD practice	Students are able to apply AutoCad program into case study given by Lecturer or Assistant Lecturer	5
9th Week	Students are able to apply Sketch Up Program in Spatial Planning	Students are able to process data into Sketch Up program.	Utilization of AutoCad in spatial planning	Students are able to run and apply the Sketch Up Program in spatial planning	Sketch up Program Application <ul style="list-style-type: none"> • Concepts and Theories • Purpose Function 	M2,M3,M4	150	Discussion, Lecture		0

10th Week	Students are able to apply Sketch Up Program in Spatial Planning	Students are able to process data into Sketch Up program.	Utilization of AutoCad in spatial planning	Students are able to run and apply the Sketch Up Program in spatial planning	Sketch Up Program Application	M2,M3,M4	150	Discussion, Lecture		0
					Sketch Up Program Application	M2,M3,M4	480	Practicum		0
					Sketch Up Program Application	M2,M3,M4	480	Evaluation of Sketch Up practice	Students are able to apply Sketch Up program into case study given by Lecturer or Assistant Lecturer	10
11th Week 12th Week 13th Week	Students are able to apply Corel Draw Program in Spatial Planning	Students are able to process data into Corel Draw program.	Utilization of Corel Draw in spatial planning	Students are able to run and apply the Corel Draw Program in spatial planning	AutoCAD Program Application	M2,M3,M4	150	Discussion, Lecture		0

			Utilization of Corel Draw in spatial planning	Students are able to run and apply the Corel Draw Program in spatial planning	AutoCAD Program Application	M2,M3,M4	480	Practicum		0
					AutoCAD Program Application	M2,M3,M4	480	Evaluation of Corel Draw practice	Students are able to apply Corel Draw program into case study given by Lecturer Or Assistant Lecturer	5
14th Week 15th Week 16th Week	Students are able to identify the need for data on the basic building layout / spatial utilization index	Students are able to identify the need for data on the basic building layout / spatial utilization index In urban planning	Survey and Mapping	Students are able to survey about the intensity of spatial utilization	Field survey and mapping	M1,M3	590	Survey	<ul style="list-style-type: none"> • Field survey results (accuracy and precision of data acquisition): 10% • Mapping survey results in GIS format: 10% 	20

	Students master presentation techniques and able to use visualization support tools in spatial arrangement	Students are able to process data using ArcGIS, AutoCad, SketchUp, and Corell Draw programs in task			Fact Report Assistance	M1,M3,M4	480	Group TaskAssistance		0
					Task Presentation	M1,M3,M4	480	Task Presentation	<ul style="list-style-type: none"> • Presenta tion:10 • Display and Conformity of data informat ion (on site) submitt ed on publicati on media: 10% • Fact Report: 10% 	30

EVALUATION COURSES

Mechanism and proportion for courses PLANNING COMPUTATION arranged :Evaluation I (20%) : Written exam (C1, C2)

- Individual task
- Understanding toward the basic of planning computation through answering questions **E-Learning** that given
- Understanding toward the basic of communication and presentation on urban and regional planning through answering questions **E-Learning** that given
- Understanding toward the basic of mapping and tata building through answering questions **E-Learning** that given
- Understanding toward the basic of visualization product planning and survey technique mapping through answering questions **E-Learning** that given

Evaluation II (40%) : Practice (C1, C2, C3)

- Individual task
- Understanding toward the use and applying software Sketch Up
- Understanding toward the use and applying software AutoCAD
- Understanding toward the use and applying software ArcGIS
- Understanding toward the use and applying software Corel Draw Evaluation

III (20%) : Survey and Mapping (C1, C2, C3)

- Task Group
- Able to applying survey technique and mapping according to need of product planning that have made
- Able to implement the result of survey to mapping according to the need of product planning that have made

Evaluation IV (20%) : Paper and Presentation Poster (C1, C2, C3)

- Task Group
- Able to explaining result survey and mapping wittingly
- Able to explaining result survey and mapping orally through media communication visuallike poster

1. EVALUATION I:

TASK II – Written exam (C1, C2)

Course Name	Planning computation
CREDITS	3 credits
Modul No (Main Topic)	Modul 1-3
Objective modul (submitted from new ELO)	<ul style="list-style-type: none">• Student able to understand the basic of planning computation• Student able to understand the basic of communication and presentation dalam urban and regional planning• Student able to understand the basic of mapping and tata building• Student able to understand the basic of visualization product planning and survey technique mapping
Study purpose Task I	<ul style="list-style-type: none">• Assess grade the success of the initiation of lecturing activity related to The basic of Planning computation (Material Lecture Week 1 – 4)
Grade depth task I (C1 sd C6)	C1, C2
Detail Task I	Attached below about description task and criteria marking

EVALUATION I:

TASK I – WRITTEN EXAM E-LEARNING

A. PURPOSE

Evaluation I such as written exam with answering questions practice related to the basic of planning computation. Purpose from Evaluation I is:

- Assess grade the success of initiation lecturing activity related The basic of Planning computation (Material Lecture Week 1 – 4).

B. MATERIAL TASK

Material task consist :

- Material lecture 1st week until 4th week
- The basic of planning computation
- Basics of mapping and building layout
- Visualization product planning and survey technique mapping

C. TASK PRACTICE

- Individual written exam and Close Book through *E-Learning*
- Written exam is doing on **4th week of** lecture

2. EVALUATION II :

TASK II – Practice (C1, C2, C3)

Course Name	Planning computation
CREDITS	3 credits
Modul No (Main Topic)	Modul 5-8
Objective modul (submitted from new ELO)	<ul style="list-style-type: none">• Understanding toward the use and applying software SketchUp• Understanding toward the use and applying software AutoCAD.• Understanding toward the use and applying software ArcGIS• Understanding toward the use and applying software Corel Draw
Objective Task II	<ul style="list-style-type: none">• Student able to applying some software support planning on study case that given
Grade depth task 2 (C1 sd C6)	C1, C2, C3
Detail Task 2	Attached below about description task and criteria marking

**EVALUATION II:
TASK II – PRACTICE**

A. PURPOSE

Evaluation II berbentuk task Individual dimana student are asked doing practice toward materialthat given. Purpose from Evaluation II is:

- Student able to understand theory that given
- Student able to use and applying some software support planning to invent product planning

B. MATERIAL TASK

Material task consist :

- Application software SketchUp
- Application Software AutoCAD
- Application Software ArcGIS
- Application Software Corel Draw

C. TASK PRACTICE

- Student applying every software through questions study case.
- Evaluation is doing in every last material practice (SketchUp, AutoCAD, ArcGIS, and CorelDraw **(Between 5th week until 13th week)**).
- Evaluation is doing Individually and submitted to on-duty assistance
- Evaluation is submitted by softcopy with format folder: "**NRP_Full Name**".

SOAL UJIAN PRACTICE

MK PLANNING COMPUTATION

Soal 1 | SketchUp

- Make a Landmark with Waterfront concept. (not too detail but unique and interesting)
- Make a simple building around the landmark. Min (05)
- Allowed adding component like human, car, street lamp, and tree. (can support themodeling display)
- Post test time is 60 minutes without excuses
- Save within sketch up 8 or below
- File .skb and .skp submitted on format RAR/ZIP name :
PT_SKUP_NRP_NAMA

D. CRITERIA MARKING PRACTICE

Grade ratio for Evaluation II is 40%, such as :

Sub Bab	Excellent (86-100)	Good (76-85)	Enough (66-75)	Bad (56-65)	Very bad (0-55)	SCORE
Independent in experiment	Very independent, no problem found during evaluation, no hesitation, able to follow the guide that given	Good on experiment, follow all of the guide	Enough on experiment, there are little hesitation while doing experiment	Dependent, afraid of experiment while the assistance had explain the guidance	Not doing the guide often asking to assistance and friends afraid of doing alone	
Capability of Exploration during experiment	Excellent exploring the chance on the practice, try something new all alone	Good on exploring the chance on the practice	Enough exploring, not following the guide well	Bad exploring not following every guide that given	Not doing anything and cheating friend	
Keable toan dalam conclude suatu temuan during practice	The quality of conclusions is appropriate according to the results of the analysis and answers the research objectives	The quality of conclusions is appropriate according to the results of the analysis but does not answer the research objectives	The quality of conclusions is appropriate according to the results of the analysis but does not answer the research objectives	Conclusion quality is not in accordance with the analysis and does not answer the research objectives	Not able to give any conclusion during practice	
AVERAGE SCORE						

3. EVALUATION III :

TASK III – Survey and Mapping

Course Name	Planning computation
CREDITS	3 credits
Modul No (Main Topic)	Modul 9
Objective modul (submitted from new ELO)	<ul style="list-style-type: none">• Able to applying survey technique and mapping according to need of product planning that have made• Able to implement the survey result within mapping according to need of product planning that have made
Objective Task 3	<ul style="list-style-type: none">• Student able to find and collect the data survey according to the need of product planning that have made• Student able to practice the survey result within mapping according to need of product planning that have made
Grade depth task 3 (C1 sd C6)	C1, C2, C3
Detail Task 3	Attached below about description task and criteria marking

EVALUATION III:

TASK III – SURVEY AND MAPPING

A. PURPOSE

Evaluation III is **TASK GROUP** where student are asked to do mapping on application/software GIS from result survey on study region. Purpose from Evaluation III is:

- Student able to find data (survey) according to need of product planning that have made
- Student able to implement the survey result to mapping according to need of product planning that have made

B. MATERIAL TASK

Material task consist :

- Grade detail and accuracy related to data gain in the field according to product planning that have made.
- Product mapping that have made in format GIS according to result field survey

C. TASK PRACTICE

- Task is doing by group
- Each group consist of 5-6 students,
- Task on evaluation is the use/applicating technology on GIS.
- Submission data adjusted with the need of composing layout product that have depth information 1:5000 (same with RDTRKs' making)
- Student should be doing consultation to the lecturer and or instructor every week.
- Submission task Evaluation III on 15th week
- Submission is submitted as *softcopy* on format GIS (.mpk) and collected on 1 CD for every group, with format folder: "NAMA_GROUP"

1. CRITERIA MARKING

Grade ratio for Evaluation III adalah 20%, such as :

No	Scoring aspect	Excellent 86-100	Good 76-85	Enough 66-75	Bad 56-65	Very bad 0-55	SCORE
1	Data completion	need of data is correct based on the need of product planning that have made and data completion have according to real condition	need of data according to need of product planning that have made but the data completeness is bad according to real condition (there are some item untouched. Degradacy is less than 20% from total data)	need of data according to need of product planning that have made but the completeness is bad according to real condition (some item untouched Degradacy data between 20- 30% from total data)	need of data sudah according to need of product planning that have made but the data completeness is bad according to real condition (some item untouched. Degradacy are more than 30% from total data)	Need of data bad according to need of product planning that have made, eventhough the data is complete	
2	Accuracy Data	Depth information and nomenclature is done according to product planning that have made	some item data that have depth information and nomenclature isn't according to product planning that have made (the amount of item that not according to policy are no more than 20% from total data)	Some item data that have depth information and nomenclature isn't according to product planning that have made (the amount of item that not according to policy between 20-30% from total data)	Some item data that have depth information and nomenclature isn't according to product planning that have made (the amount of item that not according to policy between 30-40% from total data)	Some item data that have depth information and nomenclature isn't according to product planning that have made (the amount of item that not according to policy more than 40% from total data)	
3	Principles of cartographys	Map that have made dalam format GIS sudah excellent and neat on the presentment side and sudah according to principles of cartography set in Indonesia (set by BIG)	Map that have made dalam format GIS sudah excellent and neat on the presentment side tetapi bad according to principles of cartographys set in Indonesia (set by BIG)	Map that have made dalam format GIS is good but little dirty on the presentment side and bad according to principles of cartographys set in Indonesia (set by BIG)	Map that have made dalam format GIS is good but little dirty on the presentmentside and not according to principles of cartographys set in Indonesia (set by BIG)	Map that have made dalam format GIS isn't neat on the presentment side and not according to principles of cartographys set in Indonesia (set by BIG)	

4	Attribute data compability	Production atribute data informat GIS is correct and according to depth information an d nomenclature product planning that have made	Production atribute data in format GIS is correct but bad according to depth information and nomenclature product planning that have made	Production atribute data in format GIS is bad eventhough according to depth information and nomenclature product planning that have made	Production atribute data dalam format GIS is little good and depth information and nomenclature product planning that have made isalso bad	Production atribute data in format GIS is incorrect and depth information and nomenclature product planning that have also incorrect	
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Average score	
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4. EVALUATION IV :

TASK IV – REPORT AND PRESENTATION POSTER

Course Name	Komputasi Planning
CREDITS	3 credits
Modul No (Main Topic)	Modul 9
Objective modul (submitted from new ELO)	<ul style="list-style-type: none">• Able to explaining result survey and mapping in writr• Able to explaining result survey and mapping orally through media communication visual such as poster
Objective Task IV	<ul style="list-style-type: none">• Student able to make report fact on specific study region accroding to product planning that have made• Student able to present the result fact on media visualization product planning
Grade depth task IV (C1 sd C6)	C1, C2, C3
Detail Task IV	Attached below about description task and criteria marking

**EVALUATION IV:
REPORT AND PRESENTATION POSTER**

Evaluation IV is TASK GROUP where every group are asked to make report result of field survey on Evaluation III, such as Report Fact Regional Study, and present the result of report fact on poster. Purpose of Evaluation IV:

- Student able to make report fact on specific regional study according to product planning that have made
- Student able to present the fact result on media presentation visualization product planning.

2. MATERIAL TASK

The material task on Evaluation IV :

- Presentation and accuracy that presentate on media communication visual (poster)
- Accuracy data that showed on report according to need of product planning that have made.

3. TASK PRACTICE

Task is doing group

- The group member is the same group like Evaluation III
- Task on this evaluation are report and publication (presentation) result evaluation III on media poster, and will be scored on 16th week
- Student must ask for assist to lecturer every week.
- File that should be submitted are hardcopy (paper and Poster) and softcopy (*.pdf) submitted on 1 CD every group, with format folder: "NAMA_GROUP"

A. CRITERIA MARKING REPORT AND PRESENTATION POSTER

Bobot marking **Presentation and Poster** di Evaluation IV adalah 10%, such as :

Aspect	Excellent (86-100)	Good (76-85)	Enough (66-75)	Bad (56-65)	Very bad (0-55)	SCORE
Presentati on	The presentation was organized with showing fact that supported by example that already analyzed based on concept	The presentation was organized and showing fact that make sure to support the conclusions	The presentation has focus point and showing some evidence that support the conclusions	The presentation has focus point, but evidence were insufficient to used for make a conclusions.	There's no specific organization. Facts are not used to support their statement	
Tata Letak and Design	The displayed content is excellent with interesting design that ease and interest the reader	The displayed content with good and ease the reader to understand the matter, but the design not alluring the reader	The displayed content isn't good so reader hardly understand the poster eventhough the design is interesting	The displayed content isn't good so that the reader hardly understand the poster, and design is also uninteresting	The displayed content is bad so that the reader cannot understand the poster and design is also uninteresting	
Discussio n	The right argumentation with example or the fact	The right argumentation but lacking of the fact	The lack of argumentation but have fact or example	The lack of argumentation and not have example	Argumentation is wrong	
AVERAGE SCORE :						

Bobot marking **Report** di Evaluation IV adalah 10%, such as :

Aspect	Excellent (86-100)	Good (76-85)	Enough (66-75)	Bad (56-65)	Very bad (0-55)	SCORE
Introduction	The Empirical facts are completed and very relevant, the urgency of the problem is high	The Empirical facts are completed and very relevant, but the urgency is not high	The empirical facts are stated but not relevant and urgent	The empirical facts is not completed, not relevant and not urgent	Empirical facts is not stated and couldnt for the research question	

Aspect	Excellent (86-100)	Good (76-85)	Enough (66-75)	Bad (56-65)	Very bad (0-55)	SCORE
Literature review	Literature review substance is completed and has stated more than the reference	Literature review substance is stated accordingly to TOR	Suitable for the topic but not completed	Unsuitable for the topic and not completed	Not completed and irrelevant	
Methodology	Data needed, how to obtain data and techniques to process data precisely and explained in detail	Data needed, how to obtain data and explained in detail but the data processing is not right	Understood how to obtain data but the data is not completed and the process is not right	Data needed, how to obtain data and data processing techniques is not right	Empirical facts is not stated and could not for the research question	
Discussion	Data is completed and the interpretation is right	Data is completed but the interpretation is wrong	Data is completed but there is no interpretation	Data is not completed	Not completed and irrelevant	
Conclusion	The quality of conclusions is appropriate according to the results of the analysis and answers the research objectives	The quality of conclusions is appropriate according to the results of the analysis but does not answer the research objectives	The quality of conclusions is appropriate according to the results of the analysis but does not answer the research objectives	Conclusion quality is not in accordance with the analysis and does not answer the research objectives	Data needed, how to obtain data and data processing techniques is completely wrong	
SHP	Data is complete and structurally right according to the report	Data is complete, the data structure isn't correct according to the report	Data isn't completed but structurally right according to the report	No relation between data and report	No data	
AVERAGE SCORE						