

COURSE (MK)	CODE	Study Material (BK)	WEIGH	IT (credits)	SEMESTER	Date of Preparation	
Interpersonal Communication		FKOM002	Social Issues and Professional Practice; Self Development;	T [Theory] = 2	P[Practice] = 0	(1) One	22 August 2023	
		Semester Learn	ning Plan Lecturer	Study Material	Coordinator	Head of stud	ly programme	
RESPONSE			ari Wijaya, S.Kom., И.Kom	Dita Danianti, S.Kom., M.Kom		Dhina Puspasari Wijaya, S.Kom., M.Kom		
	SLOs that	are imposed on	MKs					
	CPL06		Team management and team work skills, self-management, good oral and written communication and presentation skills.					
	CPL12	Implementing th	ne values of Islamic tea	achings that are r	ahmatan lil'alam	iin.		
Learning	Course Le	arning Outcome	es (CPMK)					
Outcomes	CPMK061	Able to manage	e teams, communicate	and collaborate i	n information tec	hnology projec	ts	
	CPMK122	Able to demonstrate entrepreneurial spirit, independence, and leadership based on values, norms and ethics as well as professionalism and responsibility.					alues, norms,	
	End ability	of each learnin	g stage (Sub-CPMK)					
I								

Correlation of	CPMK to Sub-CPMK							
Course Learn	ing Outcomes		Supporte					
CPMK Code	Description of CPMK		d SLOs					
CPMK061	Able to manage teams, of technology projects	ommunicate and collaborate in information	CPL06					
		epreneurial spirit, independence, and leadership and ethics as well as professionalism and	CPL12					
Brief description of the course								
Study Material: Learning Materials	1. Communication Strategy 2. Interpersonal Relationships							
	Main:							
	1. Interpersonal communica	tion theory with examples of practical phenomen	a. N.p., Prenada Media, 2020.					
	Supporters:							
Library	 2. DeVito, Joseph A The Interpersonal Communication Book. United Kingdom, Pearson, 2014. 3. DeVito, Joseph A. Interpersonal Communication Book, The, Global Edition. United Kingdom, Pearson Education, 2018. 4. West, Richard, and Turner, Lynn H. Interpersonal Communication. United States, SAGE Publications, 2018. 5. Gamble, Teri Kwal, and Gamble, Michael W The Interpersonal Communication Playbook. United States, SAGE Publications, 2018. 							
Lecturer	Dhina Puspasari Wijaya, S.Kom., M.Kom							
Prerequisite Courses	-							

Week 1	End ability of each learning stage (Sub-CPMK)	Indicators	Criteria and Techniq ues	Learnin Student A	f Learning; ig Methods; Assignments; Estimation]	Learning Materials [Library]	Assessmen t Weight (%)
(1)	(2)	(3)	(4)	Offline (5)	Online (6)	(7)	(8)
1	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	students are able to recognise the concept of communication	Quality of Presentation; Observation (Practical/Assig nment)	Student Centre Learning	Asyncronous	1,2,3,4,5	5
2	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	students are able to recognise the concept of communication	Accuracy of Answer; Observation (Practice/Task)	Student Centre Learning	Asyncronous	1,2,3,4,5	5
3	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	students are able to recognise the concept of communication	Accuracy of UTS Answers; Written Test (UTS)	Student Centre Learning	Asyncronous	1,2,3,4,5	5
4	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	students are able to recognise the concept of communication	Accuracy of UTS Answers; Written Test (UTS)	Student Centre Learning	Asyncronous	1,2,3,4,5	5
5	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	Students are able to explain effective communication in Islamic perspective	Accuracy of UTS Answers; Written Test (UTS)	Student Centre Learning	Asyncronous	1,2,3,4,5	10
6	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	Students can know and understand language and thoughts to be a means of communication so that interaction is established	Accuracy of UTS Answers; Written Test (UTS)	Student Centre Learning	Asyncronous	1,2,3,4,5	10
7	Sub-CPMK0611 - Ability to manage teams, communication and collaboration in software project management	Students can know and understand language and thoughts to be a means of communication so that interaction is established	Accuracy of UTS Answers; Written Test (UTS)	Student Centre Learning	Asyncronous	1,2,3,4,5	10
8	Sub-CPMK1221 - Able to demonstrate entrepreneurial spirit, independence, and leadership	Students are able to understand the concept of team building	Presentatio n Quality; Performanc e	Student Centre Learning	Asyncronous	1,2,3,4,5	5
9	Sub-CPMK1221 - Able to demonstrate entrepreneurial spirit, independence, and leadership	Students are able to understand the concept of team building	Accuracy of UAS Answers; Written Test (UAS)	Student Centre Learning	Asyncronous	1,2,3,4,5	5
10	Sub-CPMK1221 - Able to demonstrate entrepreneurial spirit, independence, and leadership	students are able to understand the basic skills for public speaking	Accuracy of UAS Answers; Written Test (UAS)	Student Centre Learning	Asyncronous	1,2,3,4,5	10
11	Sub-CPMK1221 - Able to demonstrate entrepreneurial spirit, independence, and leadership	students are able to understand the basic skills for public speaking	Accuracy of UAS Answers; Written Test (UAS)	Student Centre Learning	Asyncronous	1,2,3,4,5	5

12	Sub-CLO1222 - Able to demonstrate an attitude based on the values of norms, and ethics as well as professionalism and responsibility	Students are able to understand good presentation techniques	Presentatio n Quality; Performanc e	Student Centre Learning	Asyncronous	1,2,3,4,5	5
13	Sub-CLO1222 - Able to demonstrate an attitude based on the values of norms, and ethics as well as professionalism and responsibility	students are able to understand good presentation techniques	Presentatio n Quality; Performanc e	Student Centre Learning	Asyncronous	1,2,3,4,5	10
14	Sub-CLO1222 - Able to demonstrate an attitude based on the values of norms, and ethics as well as professionalism and responsibility	Students are able to understand how to manage effective meetings	Presentatio n Quality; Performanc e	Student Centre Learning	Asyncronous	1,2,3,4,5	10



COURSE (M	IK)	CODE	Study Material (BK)	WEIGH	IT (credits)	SEMESTER	Date of Preparation	
Introduction to Medical and Health Informatics		INF003	Social Issues and Professional Practice; Data and Information Management; Security Technology and Implementation;	T [Theory] = 2	P[Practice] = 0	(1) One	23 August 2023	
		Semester Learn	ning Plan Lecturer	Study Material	Coordinator	Head of stud	y programme	
RESPONSE		Wahit De M.Ko	esta Prastowo, S.Kom, om	Dita Danianti, S.Kom., M.Kom		Dhina Puspasari Wijaya, S.Kom., M.Kom		
	SLOs that	are imposed on	MKs					
	CPL06	Team manager and presentatio		kills, self-management, good oral and written communication				
	CPL11	Able to identify medical fields.	problems and formulat	e computational	solutions for prol	plems in the he	ealth and	
Learning	Course Le	arning Outcome	es (CPMK)					
Outcomes	CPMK061	Able to manage	e teams, communicate	and collaborate i	n information tec	hnology projec	ts	
	CPMK111	Able to identify	various computational	problems in the	field of medical h	ealth		
	CPMK112	Able to formula	te computational soluti	ons in the health	and medical field	ds		
	End ability	of each learnin	g stage (Sub-CPMK)					

Correlation of	СРМК	to Sub-CPMK			_			
Course Learn	ing Ou	itcomes		Summeried SLOP				
CPMK Code		Description of CPM	K	 Supported SLOs 				
CPMK061		Able to manage team information technolog	is, communicate and collaborate in gy projects	CPL06				
		Able to identify variou medical health	is computational problems in the field of	CPL11				
CPMK112		Able to formulate con medical fields	nputational solutions in the health and	CPL11				
Brief description of the course	princi	This Introduction to Health and Medical Informatics course aims to equip students with the rinciples of informatics knowledge so that they can understand and apply the basic oncepts of health and medical computing.						
Study Material: Learning Materials		BK01 Social Issues and Professional Practice, BK06 Data and Information Management, BK09 Security Technology and Implementation.						
	Main:	:						
Library	Tools Khan Press Morr,	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data-Driven Tools. Netherlands, Elsevier Science, 2020. Khan, Javed Iqbal, et al. Introduction to Computational Health Informatics. United States, CRC Press, 2020. Morr, Christo El. Introduction to Health Informatics: A Canadian Perspective. Canada, Canadian Scholars, 2018.						
	Supp	orters:						
	Coiera, Enrico. Guide to Health Informatics. United States, CRC Press, 2015. Lubliner, David J Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health. United States, CRC Press, 2015.							
Lecturer	Wahit	Wahit Desta Prastowo, S.Kom, M.Kom						
Prerequisite Courses	-							

Week 1	End ability of each learning stage (Sub-CPMK)	Indicators	Criteria and Techniq ues	Learning Student As	Learning; Methods; ssignments; stimation]	Learning Materials [Library]	Assessmen t Weight (%)
(1)	(2)	(3)	(4)	Offline (5)	Online (6)	(7)	(8)
1	Students are able to master, understand Computing disciplne APTIKOM and ACM	Introduction to Health and Medical Informatics	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	5
2	Students are able to master, understand the field of Health Informatics and medical science.	Introduction to Health Informatics	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	5
3	Students are able to master, understand the professional career of Informatics with a health perspective.	Introduction to Health Informatics	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	10
4	Students are able to understand the history of computer evolution	Basic concepts of Hardware and Software	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020	5
5	Students are able to understand the concept of computer organisation and hardware.	Basic concepts of Hardware and Software.	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020	5
6	Students are able to understand and implement basic binary kosenp.	Basic concepts of Hardware and Software.	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020	10
7	Students are able to understand the concept of computer systems.	Basic concepts of Hardware and Software	Accuracy of UTS Answers; Written Test (UTS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	10
8	Students are able to understand and implement the concept of Regular Expressions, Processes and Services	Basic concepts of Hardware and Software	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	5
9	able to understand and implement the basic concepts of Software, Programming, Information	Basic concepts of Hardware and Software	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	10

10	Students are able to understand and implement basic concepts in informatics.	Basic concepts of health informatics	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	10
11	able to understand and implement informatics skills	Basic concepts of health informatics	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	5
12	Students are able to understand and implement basic internet concepts.	Basic concepts of the internet, securities and communicati ons.	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes).	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	5
13	Students are able to understand and implement Communication and Networking Technology	internet basics, securities and communicat ions	Practical Results; Observation (Practical/Assig nment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	10
14	Students are able to understand and implement Computer and Communication Security	Basic concepts of the internet, securities and communicat ions	Accuracy of UAS Answers; Written Test (UAS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assign ment: Materi als /Tasks on eLearning.	Mccaffrey, Peter. An Introduction to Healthcare Informatics: Building Data- Driven Tools. Netherlands, Elsevier Science, 2020.	10



COURSE (I	NK)	CODE	Study Material (BK)	WEIGH	IT (credits)	SEMESTER	Date of Preparation	
Informatics Logic		INF004	Data Structures, Algorithms and Complexity ; Intelligent Systems ;	T [Theory] = 3	P[Practice] = 0	(1) One	23 August 2023	
		Semester Learn	ning Plan Lecturer	Study Material	Coordinator	Head of stud	ly programme	
RESPONSE			ari Wijaya, S.Kom., M.Kom	Dita Danianti, S.Kom., M.Kom		Dhina Puspasari Wijaya,		
	SI Os that	are imposed on				S.Kom., M.Kom		
	CPL03	Have adequate	Have adequate knowledge of how computer systems work and be able to apply/u algorithms/methods to solve problems in an organisation.					
	CPL08	Ability to impler methods/algorit		rements by considering various appropriate				
Learning Outcomes	Course Le	arning Outcome	es (CPMK)					
	CPMK031	Able to underst	and how computer syst	stems work				
	CPMK083	Able to evaluate	e efficient computing re	equirements as needed.				
	End ability	of each learnin	g stage (Sub-CPMK)					

Correlation of	CPMK to	o Sub-CPMK			_				
Course Learn	ing Outo	comes		Supported SLOp					
CPMK Code		Description of CPI	ИК	Supported SLOs					
CPMK031		Able to understand	how computer systems work	CPL03					
CPMK083		Able to evaluate eff	cient computing requirements as needed.	CPL08					
Brief description of the course	program	This course discusses the basic concepts of solving informatics logic problems that are the basis for logic. programming. In making a programme to solve certain problems, an informatics logic is needed. so that the programme can be created with a structured model and can be used to solve existing problems.							
Study Material: Learning Materials	 Prop Taut the last logic book book de m appli 	 Introduction to Logic Propositional Logic Tautology and contradiction the laws of logic logical inference boolean algebra de morgan theorem application of boolean algebra logic circuit simplification method 							
	Main:								
	Munir,	Rinaldi, Discrete Mat	hematics, Informatics Publisher, Bandung,	, 2010					
	Suppo	rters:							
Library	Retno I	Hendrowati; Bamban	g Hariyanto, Informatics Logic, Informatics	Publisher, Bandung, 2000.					
	Setiadji, Informatics Logic, Graha Ilmu, Jakarta, 2007.								
	F. Soesianto, Djoni Dwijono, Mathematical Logic for Computer Science, ANDI Publisher, Yogyakarta, 2010.								
Lecturer	Dhina I	Puspasari Wijaya, S.I	Kom., M.Kom						
Prerequisite Courses	-								

Week 1	End ability of each learning stage (Sub-CPMK)	Indicators	Criteria and Techniq ues	Learning Student As	Learning; Methods; signments; timation]	Learning Materials [Library]	Assessmen t Weight (%)
(1)	(2)	(3)	(4)	Offline (5)	Online (6)	(7)	(8)
1	Sub-CPMK0311 - Ability to understand how computer systems work	understand how computer systems work Students are capable: - explain the concept of informatics logic - solve problems with classical and modern logic	Practical Results; Observation (Practical/As signment)	Student Centre Learning	asyncronus	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
2	Sub-CPMK0311 - Ability to understand how computer systems work	understand how computer systems work Students are able to: solve problems with logic of proportion	Practical Results; Observation (Practical/As signment)	Student Centre Learning	asyncronus	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
3	Sub-CPMK0311 - Ability to understand how computer systems work	Students are able to: apply truth table rules	Practical Results; Observation (Practical/As signment)	Student Centre Learning	asyncronus	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	10
4	Sub-CPMK0311 - Ability to understand how computer systems work	Students are capable: - explain the meaning of compound proposition - outline the benefits of the scheme	Accuracy of Test Answers; Test Writing (UTS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assignment: Materials /Tasks on eLearning. Logic: Compound Propositions -Introduction	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
5	Sub-CPMK0311 - Ability to understand how computer systems work	Students are able to: understand and have insight into tautology and evaluation of argument validity	Accuracy of Test Answers; Test Writing (UTS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
6	Sub-CPMK0311 - Ability to understand how computer systems work	Students have: insight into logical equivalence, the laws of logic and the properties of commutative associative	Accuracy of Test Answers; Test Writing (UTS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assignment: Materials /Tasks on eLearning. Logic: Logical equivalence -Introduction -Logical equivalence	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	10
7	Sub-CPMK0311 - Ability to understand how computer systems work	Students are able to: understand simplification methods for solving problems in logical expressions	Accuracy of Test Answers; Test Writing (UTS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	10
8	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: explain the concept of Boolean algebra	Practical Results; Observation (Practical/As signment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minute)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	10
9	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: apply the principles of Boolean algebra Attendance, Activeness	Practical Results; Observation (Practical/As signment)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5

10	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: understand the application of Boolean algebra.	Practical Results; Observation (Practical/As signment)	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
11	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: understand the application of Boolean algebra.	Accuracy of UAS Answers; Test Writing (UAS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
12	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: describe and simplify the use of Boolean algebra.	Accuracy of UAS Answers; Test Writing (UAS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	10
13	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: describe and simplify the use of Boolean algebra.	Accuracy of UAS Answers; Test Writing (UAS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	5
14	Sub-CPMK0831 - Ability to evaluate solutions for efficient software projects as required.	Students are able to: simplification for problem solving in complex logic	Accuracy of UAS Answers; Test Writing (UAS)	Lecture; Discovery Learning, group discussion. (2x(2x50 minutes)	Assignment: Materials /Tasks on eLearning.	Munir, Rinaldi, Discrete Mathematics, Informatics Publisher, Bandung, 2010	10



COURSE (N	IK)	CODE	Study Material (BK)	WEIGH	IT (credits)	SEMESTER	Date of Preparation
Algorithm Programi		INF005	Data Structures, Algorithms and Complexity ; Programming Languages ; Programming Fundamentals;	T [Theory] = 2	P [Practice] = 1	(1) One	22 August 2023
		Semester Lear	ning Plan Lecturer	Study Material	Coordinator	Head of stud	y programme
RESPONSE			ti, S.Kom., M.Kom	Dita Danianti, S	S.Kom., M.Kom		asari Wijaya, , M.Kom
	SLOs that	are imposed on					
	CPL03	Have adequate knowledge of how computer systems work and be able to apply/use various algorithms/methods to solve problems in an organisation.					
	CPL04	project manage	etence to analyse com ment in the field of info y science development	ormatics/compute			
Learning Outcomes	Course Le	arning Outcome	es (CPMK)				
	CPMK032	Able to apply/us	se various methods/alg	porithms in solvin	g problems in an	organisation	
	CPMK041	Able to identify	complex computing pro	oblems			
	End ability	r of each learnin	g stage (Sub-CPMK)				

Correlation of	CPMK to Sub-CPMK		_			
Course Learn	ng Outcomes	Supporte]			
CPMK Code	Description of CPMK	d SLOs				
CPMK032	Able to apply/use various methods/algorithms in solving problem organisation	ns in an CPL03				
CPMK041	Able to identify complex computing problems	CPL04				
Brief description of the course	This Algorithms and Programming course provides students with ar programming. After studying this course, students are expected to b programming logic and then realise this understanding in the form of	e able to understand the bas				
Study Material: Learning Materials	Algorithm concept, data type, input output, branching, looping. array	r, function, recursion, sorting,	searching			
	Main:					
	1. Guttag, V. J., 2016, Introduction to Computation and Programming Using Python: With Application to Understanding Data (The MIT Press), second edition, The MIT Press, United State of America.					
Library	Supporters:					
	 L. Sitorus, Algorithms and Programming, Yogyakarta, 2015. Kadir, Abdul. (2019). Python Programming Logic. Jakarta: Elex M Raharjo, Budi. (2019). Collection of Python Programming Solution 		Informatics.			
Lecturer	Dita Danianti, S.Kom., M.Kom					
Prerequisite Courses	-					

Week 1	End ability of each learning stage (Sub- CPMK)	Indicators	Criteria and Techniq ues	Learnin Student	of Learning; ng Methods; Assignments; Estimation]	Learning Materials [Library]	Assessmen t Weight (%)
(1)	(2)	(3)	(4)	Offline (5)	Online (6)	(7)	(8)
1	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Understand exactly the meaning / concept of algorithms, understand the terms in algorithms, Students are able to explain exactly the function of algorithms	Presentatio n Quality; Performanc e	Student centred learning	Asynchronous	1,2,3	9
2	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Students understand: data types and identifiers, operators, expressions in algorithms.	Accuracy of Answer; Observation (Practice/Task)	Student centred learning	Asynchronous	1,2,3	8
3	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Students are able to explain: the concept of input and output, the application of input and output	Accuracy of UTS Answers; Written Test (UTS)	Student centred learning	Asynchronous	1,2,3	8
4	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Explain correctly the concept of branching Explain correctly the application of one-condition, two-condition and more than two-condition branching	Accuracy of Answer; Observation (Practice/Task)	Student centred learning	Asynchronous	1,2,3	9
5	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Explain correctly the concept of switch case branching, Explain correctly application of switch case branching programme	Presentatio n Quality; Performanc e	Student centred learning	Asynchronous	1,2,3	8
6	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Able to explain the concept of Uncounted Loop, Able to apply Uncounted Loop.	Accuracy of UTS Answers; Written Test (UTS)	Student centred learning	Asynchronous	1,2,3	4
7	CPMK0321 - Ability to apply / use various methods/algorithms in solving problems in organisations	Able to explain the concept of one-dimensional array, the application of one- dimensional array.	Accuracy of UTS Answers; Written Test (UTS)	Student centred learning	Asynchronous	1,2,3	4
8	CPMK0411 - Ability to analyse complex computing problems	Able to explain the concept of multi arrays Able to apply multi- dimensional arrays.	Accuracy of Answer; Observation (Practice/Task)	Student centred learning	Asynchronous	1,2,3	9
9	CPMK0411 - Ability to analyse complex computing problems	Able to explain the concept of function in procedural programming, able to apply function in procedural programming.	Presentatio n Quality; Performanc e	Student centred learning	Asynchronous	1,2,3	8
10	CPMK0411 - Ability to analyse complex computing problems	Able to explain the concept of recursion in modular programmes, Able to apply recursion in modular programmes.	Accuracy of UAS Answers; Written Test (UAS)	Student centred learning	Asynchronous	1,2,3	5
11	CPMK0411 - Ability to analyse complex computing problems	Able to explain the concept of iteration in modular programmes, able to apply iteration in modular programmes	Accuracy of UAS Answers; Written Test (UAS)	Student centred learning	Asynchronous	1,2,3	5

12	CPMK0411 - Ability to analyse complex computing problems	Able to explain the concept of searching in modular programmes, able to apply searching in modular programmes.	Accuracy of Answer; Observation (Practice/Task)	Student centred learning	Asynchronous	1,2,3	5
13	CPMK0411 - Ability to analyse complex computing problems	Able to explain the concept of sorting in modular programmes, able to implement sorting in modular programmes.	Accuracy of Answer; Observation (Practice/Task)	Student centred learning	Asynchronous	1,2,3	10
14	CPMK0411 - Ability to analyse complex computing problems	Accuracy in applying concepts and creating algorithms to comprehensively solve large task cases, Presentation skills and concept understanding	Presentatio n Quality; Performanc e	Student centred learning	Asynchronous	1,2,3	10



COURSE (M	IK)	CODE	Study Material (BK)	WEIGH	IT (credits)	SEMESTER	Date of Preparation
Computer Orga and Ar	anisation chitecture	INF009	Parallel and Distributed Computing ; Computing Systems Fundamentals ; Architecture and Organisation ;	T [Theory] = 2	P[Practice] = 0	(1) One	31 December 2023
		Semester Learn	ning Plan Lecturer	Study Material	Coordinator	Head of stud	ly programme
RESPONSE		Andri Pramunt	adi, S.Kom., M.Kom	Andri Pramun M.k	tadi, S.Kom., Kom		asari Wijaya, , M.Kom
	SLOs that	are imposed on	MKs				
	CPL03	Have adequate knowledge of how computer systems work and be able to apply/use various algorithms/methods to solve problems in an organisation.					arious
	CPL04	project manage		plex computing problems to identify solutions for technology prmatics/computer science by considering the insights of t.			
Learning Outcomes	Course Le	arning Outcome	es (CPMK)				
	CPMK031	Able to underst	and how computer syst	tems work			
	CPMK042		technology project ma sidering the insights of				omputer
	End ability	of each learnin	g stage (Sub-CPMK)				
l							

Correlation of	СР	MK to Sub-CPMK			
Course Learn	ing	Outcomes		Supporte	
CPMK Code		Description of CPMK		d SLOs	
CPMK031		Able to understand how o	computer systems work	CPL03	
CPMK042		-	gy project management solutions in the uter science by considering the insights ce development.	CPL04	
Brief description of the course	w	hich includes the organisa	concept of information systems, especially the or tion between each of its main components, name n networks (buses). In this course, computer arith	ly processors, mem	
Study Material: Learning Materials		omputer organisation and a PU structure and function	architecture		
	М	ain:			
Librony	St	alling, W., Computer Orga	nisation and Architecture, 10th Edition, Pearson,	2016	
Library	S	upporters:			
	A	odurohman, M., Computer	Organisation & Architecture, Informatics Publish	er, 2014	
Lecturer	Ai	ndri Pramuntadi, S.Kom., I	И.Kom		
Prerequisite Courses	-				

Week 1	End ability of each learning stage (Sub-CPMK)	Indicators	Criteria and Techniques	Form of L Learning Student Ass [Time Est	Methods; signments;	Learning Materials [Library]	Assessmen t Weight (%)
(1)	(2)	(3)	(4)	Offline (5)	Online (6)	(7)	(8)
1	Sub-CPMK0311 - Students are able to describe the architecture and organisation of the processor (CPU) in a computer	Able to explain about computer organisation and architecture	Accuracy of UTS Answers; Written Test (UTS)	Lecture / Discovery Learning Simulation	Quiz	Definition and introduction to Computer Organisation and Computer Architecture	10
2	Sub-CPMK0311 - Students are able to describe the architecture and organisation of the processor (CPU) in a computer	Able to describe the CPU organisation along with the functions and types of registers on the CPU	Accuracy of Answers; Written Test (UTS)	Lecture / Discovery Learning Simulation	Elearning	Processor Organisation	6
3	Sub-CPMK0312 - Students are able to describe the architecture and organisation of computer systems	able to describe the instruction cycles on the CPU	Accuracy of UTS Answers; Written Test (UTS)	Lecture/ Discovery Learning Simulation	Elearning Quiz	Instruction Cycle Register Organisation	6
4	Sub-CPMK0312 - Students are able to describe the architecture and organisation of computer systems	Understand the structure and functions of CPU i.e. Instruction Fech, Instruction Interpreter, Data Fech, Execution, and Store Back.	Accuracy of Answers; Written Test (UTS)	Lecture / Discovery Learning Simulation	Elearning Quiz	Processor Function and Structure	6
5	Sub-CPMK0312 - Students are able to describe the architecture and organisation of computer systems	Students are able to: working principle of internal memory.	Accuracy of Answers; Written Test (UTS)	Lecture / Discovery Learning Simulation	Elearning	Internal Memory	6
6	Sub-CPMK0311 - Students are able to describe the architecture and organisation of the processor (CPU) in a computer	Able to know and understand the function of about External memory.	Accuracy of Answers; Written Test (UTS)	Lecture / Discovery Learning Simulation	Elearning	External Memory	6
7	Sub-CPMK0312 - Students are able to describe the architecture and organisation of computer systems	Able to explain the function and structure of I/O modules	Accuracy of Answers; Written Test (UTS)	Lecture	Elearning	Types of I/O devices and modules I/O channels and processors	5
8	Sub-CPMK0312 - Students are able to describe the architecture and organisation of computer systems	Able to explain the functions and workings of the interconnection system on a computer	Accuracy of Answer; Written Test (UAS)	Lecture	Elearning	Bus interconnection structure	5
9	Sub-CPMK0312 - Students are able to describe the architecture and organisation of computer systems	Able to explain the functions and workings of the interconnection system on a computer	Accuracy of Answer; Written Test (UAS)	Lecture	Elearning	Types and characteristics of Bus Systems	5
10	Internal and addressing systems	Able to explain Internal and addressing system (addressing)	Accuracy of Answer; Written Test (UAS)	Lecture	Elearning	I/O devices and modules	5
11	Instruction set	Able to explain Instruction Set definition and operation types	Accuracy of Answer; Participation (Attendance/Quiz)	Lecture / Discovery Learning Simulation	Elearning Quiz	Machine Instruction Characteristics Operand types	6

12	Instruction set	Able to explain Instruction Set definition and operation types	Accuracy of Answer; Written Test (UAS)	Lecture / Discovery Learning Simulation	Quiz / Elearning	Types of Addressing operations	6
13	Instruction Set	Able to describe the instruction set addressing mechanism	Accuracy of Answer; Written Test (UAS)	Lecture / Discovery Learning Simulation	Quiz / Elearning	Instruction Format	6
14	software systems and operating systems on computer systems	Able to explain about the role of software systems and operating systems on computer systems	Accuracy of Answer; Written Test (UAS)	Lecture / Discovery Learning Simulation	Quiz / Elearning	Software System Operating System	10



COURSE (N	IK)	CODE	Study Material (BK)	WEIGH	IT (credits)	SEMESTER	Date of Preparation	
Human and Computer Interaction (HCI)		INF012	User Experience Design; Human- Computer Interaction;	T [Theory] = 3	P[Practice] = 0	(1) One	26 July 2023	
		Semester Learn	ning Plan Lecturer	Study Material	Coordinator	Head of stud	ly programme	
RESPONSE			n Gutama, S.Kom., V.Kom	Dita Danianti, S	S.Kom., M.Kom		asari Wijaya, , M.Kom	
	SLOs that	are imposed on	MKs					
	CPL09	Ability to analyse, design create and evaluate user interfaces and interactive applications by considering user needs and transdisciplinary science developments.						
	CPL10	Ability to design, implement and evaluate multi-platform computing-based solutions that meet the computing needs of an organisation.						
	CPL11	Able to identify medical fields.	problems and formulat	te computational	solutions for prol	blems in the he	ealth and	
Learning Outcomes	Course Le	arning Outcome	es (CPMK)					
	CPMK091		and design user interforment of transdisciplination		tive applications	by considering	user needs	
	CPMK111	Able to identify	various computational	problems in the	field of medical h	ealth		
	CPMK092	Able to create u	user interfaces and inte	eractive application	ns			
	End ability	of each learnin	ig stage (Sub-CPMK)					

Correlation of	CPMK to Sub-CPMK			_
Course Learn	ing Outcomes		Supporte	
CPMK Code	Description of CPMK		d SLOs	
CPMK091		gn user interfaces and interactive applications as and the development of transdisciplinary	CPL09	
CPMK111	Able to identify various c health	omputational problems in the field of medical	CPL11	
CPMK092	Able to create user interf	aces and interactive applications	CPL10	
Brief description of the course		action course is a fundamental material in Inform eaches students about how Human Computer Ir and useful for its users.		
Study Material: Learning Materials	User Experience Design, a	nd Human-Computer Interaction		
	Main:			
Library	 Galitz, Wilbert O. 2007. 1 Ballard, Barbara. 2007. 1 Kalbach, James. 2007. 1 Jenny Preece, Yvonne R -Interaction, J. Wiley & Son 	bles Of Human Computer Interaction, Lambert A The Essential Guide to UI Design. Third Edition. Designing the Mobile User Experience. Little Sprivesigning Web Navigation. O'Reilly. ogers, Helen Sharp. 2002. Interaction Design_bos. onant Interface HCI Foundations for interaction d	ngs Design, Inc. USA eyond HumanComput	
	Supporters:			
	2. Fox, Brent. 2005. Game	5. Task Models and Diagrams for UI Design. Spri Interface Design. Thompson Course Technology 2004. Voice UI Design. Addison Wesley		
Lecturer	Deden Hardan Gutama, S.I	Kom., M.Kom		
Prerequisite Courses	-			

Week 1	End ability of each learning stage (Sub-CPMK)	Indicators	Criteria and Techniq ues	Learnin Student	of Learning; ng Methods; Assignments; Estimation]	Learning Materials [Library]	Assessmen t Weight (%)
(1)	(2)	(3)	(4)	Offline (5)	Online (6)	(7)	(8)
1	Sub-CPMK1111 - Ability to identify various computing problems	Able to explain the need to study Human and Computer Interaction and understand the characteristics of GUI and Web UI	Presentatio n Quality; Performanc e	Student- Learning Centre	Asynchronous	1,4	5
2	Sub-CPMK1112 - Ability to identify various computational problems in the health sector	Able to explain and implement methods in designing User Interface	Presentatio n Quality; Performanc e	Student- Learning Centre	Asynchronous	1,2,3	5
3	Sub-CPMK1111 - Ability to identify various computing problems	Able to define User Characteristics of computing systems	Presentatio n Quality; Performanc e	Student- Learning Centre	Asynchronous	1,5	5
4	Sub-CPMK1112 - Ability to identify various computational problems in the health sector	Able to apply UI principles	Presentation Quality; Written Test (UAS)	Student- Learning Centre	Asynchronous	1,3	10
5	Sub-CPMK1112 - Ability to identify various computational problems in the health sector	Able to design menu structure in the system health sector information	Practical Results; Performance	Problem- Learning Centre	Asynchronous	1,2,3,4	5
6	Sub-CPMK0911 - Ability to analyse and redesign user interfaces in interactive software applications	Understand usability evaluation assessment on information systems	Accuracy of Quiz Answers; Written Test (UTS)	Student- Learning Centre	Asynchronous	1,2,3,4	10
7	Sub-CPMK0911 - Ability to analyse and redesign user interfaces in interactive software applications	Understand information system success evaluation	Accuracy of Answer; Performanc e	Student- Learning Centre	Asynchronous	1,2,3,4	5
8	Sub-CPMK0921 - Ability to create user interfaces for interactive software applications using various methods	Able to apply and design interfaces according to the stages that have been learnt	Accuracy of Test Answers; Observation (Practice / Assignment)	Student- Learning Centre	Asynchronous	1,2,3,4,5,6	15
9	Sub-CPMK1112 - Ability to identify various computational problems in the health sector	Able to apply Graphics, Icons, Images & Colours that fit the needs	Accuracy of UAS Answers; Performance	Student- Learning Centre	Asynchronous	1,4,6	10
10	Sub-CPMK0911 - Ability to analyse and redesign user interfaces in interactive software applications	Able to design web-based and mobile device interfaces	Accuracy of UAS Answers; Performance	Problem- Learning Centre	Asynchronous	1,2,6	5
11	Sub-CPMK0921 - Ability to create user interfaces for interactive software applications using various methods	Students are able to understand the form of information system interface evaluation	Practical Results; Performance	Problem- Learning Centre	Asynchronous	1,2,3,4	10
12	Sub-CPMK0911 - Ability to analyse and redesign user interfaces in interactive software applications	Students are able to complete information system interface evaluation	Accuracy of Answer; Performanc e	Problem- Learning Centre	Asynchronous	1,2,3,4	10

13	Sub-CPMK0921 - Ability to create user interfaces for interactive software applications using various methods	Students are able to complete information system interface evaluation	Accuracy of UAS Answers; Observation (Practice / Assignment)	Problem- Learning Centre	Asynchronous	1,2,3,4	5
14	Sub-CPMK1112 - Ability to identify various computational problems in the health sector	Students are able to understand and evaluate interfaces	Accuracy of UAS Answers; Written Test (UAS)	Problem- Learning Centre	Asynchronous	1,2,3,4,5	5