

List of Courses  
Bachelor of Informatics

No	1 <sup>st</sup> Semester	Credits
1	Basic Computer Security	3
2	Database System	3
3	Statistics and Probability	3
4	Algorithm and Programming (Lab)	3
5	Calculus	3
6	English I	3
7	Religion Subject	2
<b>Total</b>		<b>20</b>

No	2 <sup>nd</sup> Semester	Credits
1	Data Structure	3
2	Practical of Algorithm and Data Structure (Lab)	3
3	Linear Algebra	3
4	Database System Design	3
5	CCNA R&S 1	3
6	Computer Architecture and Organization	3
7	English II	3
<b>Total</b>		<b>21</b>

No	3 <sup>rd</sup> Semester	Credits
1	Indonesian Language	2
2	Software Engineering	3
3	Cryptography and Steganography	3
4	Operating System	3
5	Advanced Algorithm	3
6	Object Oriented Analysis	3
7	Web Programming(Lab)	3
8	Programming PL/SQL (Lab)	3
<b>Total</b>		<b>23</b>

No	4 <sup>th</sup> Semester	Credits
1	Entrepreneurship I	3
2	Object Oriented Programming (Lab)	3
3	Web Enterprise Programming (Lab)	3
4	Capita Selecta	3
5	Departments Compulsory Course*	9
	<b>Departments Compulsory Course <i>Network Specialist</i></b>	
	Practical of Networks Operating Systems (Lab)	3
	CCNA R&S 2 (Lab)	3
	CCNA R&S 3 (Lab)	3
	<b>Departments Compulsory Course <i>Data Solution Specialist</i></b>	
	Rapid Application System Development	3
	Introduction to Database Administrator (Lab)	3
	Data Warehouse OLAP	3
	<b>Total</b>	<b>21</b>

No	5 <sup>th</sup> Semester	Credits
1	Entrepreneurship II	3
2	Neural Networks Artificial Intelligence	3
3	Introduction to Cloud Computing	3
4	Mobile Programming Android (Lab)	3
5	Departments Compulsory Course*	9
	<b>Departments Compulsory Course <i>Network Specialist</i></b>	
	CCNA R&S 4 (Lab)	3
	Server Configuration and Multi Server	3
	Computer Network Security(Lab)	3
	<b>Departments Compulsory Course <i>Data Solution Specialist</i></b>	
	Introduction to Disaster Recovery Plan (DRP) and Business Continuity Plan (BCP)	3
	Project Management	3
	Introduction to Data Mining	3
	<b>Total</b>	<b>21</b>

No	6 <sup>th</sup> Semester	Credits
1	Civics	2
2	Entrepreneurship III	3
3	Smart Web Programming (Lab)	3
4	Research Methodology for Information Technology	3
5	Multimedia System	3
6	IT Governance	3
7	Departments Compulsory Course*	3
	<b>Departments Compulsory Course <i>Network Specialist</i></b>	
	Network Administrator Security System	3

	<b>Departments Compulsory Course Data Solution Specialist</b>	
	Advanced Data Mining	3
	<b>Total</b>	<b>20</b>

No	7 <sup>th</sup> Semester	Credits
1	Pancasila (Indonesia Philosophy)	2
2	Ethics of UMB	2
3	Internship	3
4	Departments Option Course*	6
	<b>Departments Option Course Data Solution Specialist</b>	
	Machine Learning	3
	Image Processing	3
	<b>Departments Option Course Network Specialist</b>	
	VOIP Network *	3
	Parallel and Distributed Computing	3
	<b>Departments Option Course All Specialist</b>	
	2D/3D Modelling*	3
	<b>University Option Course</b>	
	English III	3
	<b>Faculty Option Course</b>	
	Information Retrieval *	3
	Enterprise Resource Planning (Lab)	3
	<b>Total</b>	<b>13</b>

No	8 <sup>th</sup> Semester	Credits
1	Thesis	6
	<b>Faculty Option Course*</b>	
2	Mobile Programming IOS (Lab) *	3
	<b>Total</b>	<b>6/12</b>

	<b>Total Credits</b>	<b>145</b>
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