

Department of **Informatics**
Undergraduate - Informatics
FACULTY OF INFORMATION TECHNOLOGY
INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS)

Smt	Code	Courses	Credits
1	IG1108	English	3
1	KI1301	Basic Programming	4
1	KI1302	Discrete Mathematics	3
1	KI1303	Information Technology System	2
1	KI1304	Digital System	3
1	SM1203	Calculus I	3
2	IG1101	Islam Education*	2
2	IG1102	Protestant Education*	2
2	IG1103	Catholic Education*	2
2	IG1104	Hindu Education*	2
2	IG1105	Buddha Education*	2
2	IG1106	Concept of Nationalism	3
2	IG1110	Khonghucu Education*	2
2	KI1305	Linear Algebra	3
2	KI1306	Computer Organization	3
2	KI1307	Data Structure	4
2	KI1331	Informatic Mathematics	3
3	KI1308	Object-oriented Programming	3
3	KI1309	Algorithm Design and Analysis I	3
3	KI1310	Probability and Statistics	3
3	KI1311	Database System	4
3	KI1312	Operating System	4
3	KI1313	Graph Theory	3
4	KI1314	Computer Networks	4
4	KI1315	Artificial Intelligence	3
4	KI1316	Database Management	3
4	KI1317	Automation	3
4	KI1318	Web Programming	3
4	KI1319	Algorithm Design and Analysis II	3
5	KI1320	IS Analysis and Design	3
5	KI1321	Computer Graphic	3

Smt	Code	Courses	Credits
5	KI1322	Computational Intelligence	3
5	KI1323	Numerical Computing	3
5	KI1324	Network Programming	3
5	KI1325	Software Design	3
6	KI1326	Human and Computer Interaction	3
6	KI1327	Information and Network Security	3
6	KI1328	Requirement Engineering	3
6	KI1329	Software Project Management	3
6	KI1330	Practical Work	2
6	KI1401	Multivariate Data Analysis**	3
6	KI1402	Computer Animation and 3D Modeling**	3
6	KI1403	Software Architecture**	3
6	KI1404	Data Mining**	3
6	KI1405	Wireless Networks**	3
6	KI1406	Cloud Computing**	3
6	KI1407	Mobile Computation**	3
6	KI1408	Framework-oriented Programming**	3
6	KI1409	Linear Programming**	3
6	KI1410	Digital Image Processing**	3
6	KI1411	Software Quality Assurance**	3
6	KI1412	Knowledge Engineering**	3
6	KI1413	Enterprise System**	3
6	KI1414	Game Development Technique**	3
6	KI1415	Inter-Network Technology**	3
7	IG1109	Technopreneurship	3
7	KI1416	System Audit**	3
7	KI1417	Software Evolution**	3
7	KI1418	Multimedia Networks**	3

Smt	Code	Courses	Credits
7	KI1419	Data Compression**	3
7	KI1420	Biomedical Computation**	3
7	KI1421	Grid and Parallel Computing**	3
7	KI1422	Pervasive Computing and Sensor Network**	3
7	KI1423	Software Construction**	3
7	KI1424	Modeling and Simulation**	3
7	KI1425	Mobile Software Programming**	3
7	KI1426	Network and System Security Design**	3
7	KI1427	Virtual Reality and Augmentation**	3
7	KI1428	Robotics**	3
7	KI1429	Game System**	3
7	KI1430	Geographic Information System**	3
7	KI1431	Information Retrieval System**	3
7	KI1432	Information Technology Governance**	3
7	KI1433	Special Topics in Algorithm and Programming**	3
7	KI1434	Special Topics in Architecture and Computer Network**	3
7	KI1435	Special Topics in IGS**	3
7	KI1436	Special Topics in Network-based Computing**	3
7	KI1437	Computer Vision**	3
7	KI1501	Project Proposal	2
8	IG1107	Concept of Scientific Technology and Communication	3
8	KI1438	Social Media Analysis**	3
8	KI1439	Distributed-Database**	3
8	KI1440	Big Data**	3

* Select one of those with stars

** Elective courses

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Smt	Code	Courses	Credits
8	KI1441	Software Engineering Economy**	3
8	KI1442	Digital Forensics**	3
8	KI1443	Software Process Perfection**	3

Smt	Code	Courses	Credits
8	KI1444	Distributed System**	3
8	KI1445	Special Topics in Basic & Applied Computing**	3
8	KI1446	Special Topics in KCV**	3
8	KI1447	Special Topics in Information	3

Smt	Code	Courses	Credits
		Management**	
8	KI1448	Special Topics in Software Engineering**	3
8	KI1502	Final Project	5

* Select one of those with stars

** Elective courses