

Department of **Multimedia and Network Engineering**
Undergraduate – Multimedia and Network Engineering
FACULTY OF INDUSTRIAL TECHNOLOGY
INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS)

Smt	Code	Courses	Credits
1	IG1101	Islam Education*	2
1	IG1102	Protestant Education*	2
1	IG1103	Catholic Education*	2
1	IG1104	Hindu Education*	2
1	IG1105	Buddha Education*	2
1	IG1108	English	3
1	IG1110	Khonghucu Education*	2
1	SM1303	Calculus I	3
1	TE1210	Introduction to Electrical Engineering	2
1	TJ1201	Professional Ethics & Telematics Regulation	3
1	TJ1202	Electronic Physics	3
1	TJ1301	Basic Computer Programming and lab	4
2	IG1106	Concept of Nationalism	3
2	TJ1302	Introduction to Telecommunication System and Lab	3
2	TJ1303	Linear Algebra	3
2	TJ1304	Object-oriented Programming	3
2	TJ1305	Differential Equations and Series for Engineering	4
3	TE1443	Biomedical Signal Instrumentation and Processing**	3
3	TJ1306	Discrete Mathematics	2
3	TJ1307	Multi Variable Calculus for Engineering	3
3	TJ1308	Object Based Software Engineering	3
3	TJ1309	Data Structure	3
3	TJ1401	Introduction to Real Time System**	3

Smt	Code	Courses	Credits
3	TJ1402	Field Theory**	3
3	TJ1421	Introduction to Game Design**	3
3	TJ1422	Introduction to Mobile Application Development**	3
3	TJ1423	Human-Computer Interaction**	3
3	TJ1441	Programming Paradigm**	3
3	TJ1442	Internet Application and Network Service**	3
4	TJ1310	Computer Network and Lab	4
4	TJ1311	Probability and Statistics	3
4	TJ1312	Operating System	3
4	TJ1403	Architecture and Computing System Organization**	3
4	TJ1404	Digital and Laboratory Circuit**	4
4	TJ1405	Electric, Electronical Signal and Laboratory Circuit**	4
4	TJ1424	Game Design and Development**	3
4	TJ1425	Mobile Computation Application**	3
4	TJ1443	System and Network Programming**	3
4	TJ1461	Laboratory and Multimedia Database**	4
4	TJ1462	Audio Signal Processing**	3
5	IG1107	Concept of Scientific Technology and Communication	3
5	TJ1313	Numerical Methods and Lab.	3
5	TJ1314	Laboratory and Computing Technique	3
5	TJ1315	Practical Work	2
5	TJ1406	Electronics Circuit**	3
5	TJ1407	Microprocessor & Microcontroller System**	3
5	TJ1426	Game Programming and	4

Smt	Code	Courses	Credits
		Laboratory**	
5	TJ1427	Graphic Computer**	3
5	TJ1428	Mobile Computing for Game**	3
5	TJ1444	Internet & Lab Engineering**	4
5	TJ1445	Distributed System**	3
5	TJ1446	Cluster and Multi Processor Computing **	3
5	TJ1463	Laboratory, Video and Image Processing**	4
6	TJ1316	Mechanical Study	3
6	TJ1317	Telematic Project	3
6	TJ1408	Real Time Concurrent System**	3
6	TJ1409	Computer Vision for Robots**	3
6	TJ1410	Introduction to Robotics**	3
6	TJ1429	Animation Programming for Game**	3
6	TJ1430	Media Social Analysis**	3
6	TJ1447	Computer System Security**	3
6	TJ1448	Wireless Sensor Network**	3
6	TJ1449	Distributed Computing**	3
6	TJ1464	Visualization Technique**	3
6	TJ1465	Computer Vision**	3
6	TJ1466	Computational Geometry**	3
6	TJ1467	Aesthetic Computing**	3
7	IG1109	Technopreneurship	3
7	TJ1318	Soft Computing	3
7	TJ1411	Ubiquitous Computing**	3
7	TJ1412	Robot Mobile Programming**	3
7	TJ1413	Robotic Probability**	3
7	TJ1414	Programmed Device**	3
7	TJ1431	Special Effect for Game**	3
7	TJ1432	Laboratory and Advanced Game Development and Design**	4

* Select one of those with stars

** Elective courses

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Smt	Code	Courses	Credits
7	TJ1433	Computational Intelligent for Game**	3
7	TJ1434	Mobile Multimedia**	3
7	TJ1450	Web Intelligent & Big Data and Lab**	4
7	TJ1451	Intelligent Networking**	3

Smt	Code	Courses	Credits
7	TJ1452	Digital Forensics**	3
7	TJ1453	Grid & Cloud Computing System**	3
7	TJ1468	Laboratory and Medical Image Processing**	4
7	TJ1469	Computational Photography**	3

Smt	Code	Courses	Credits
7	TJ1470	Affective Computing**	3
7	TJ1471	Medical Image Visualization**	3
7	TJ1501	Final Project 1	3
8	TJ1502	Final Project 2	3

* Select one of those with stars

** Elective courses