

Department of **Geomatics Engineering**  
Undergraduate – Geomatics Engineering  
FACULTY OF CIVIL ENGINEERING AND PLANNING  
**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	IG1107	Concept of Scientific Technology and Communication	3
1	IG1110	Khonghucu Education*	2
1	RG1201	Matrix, Space and Vector	2
1	RG1204	Geoscience	2
1	RG1302	Cartography	3
1	RG1303	Calculus	3
1	SF1111	Physics I	3
2	IG1106	Concept of Nationalism	3
2	IG1108	English	3
2	RG1205	Wave Physics	3
2	RG1207	Spatial Computing	3
2	RG1208	Earth Technology	2
2	RG1306	Basic Terestris Cartography	4
3	RG1210	Introduction to Geophysics	2
3	RG1214	Geodesy Mathematics	3
3	RG1309	Cadastre	2
3	RG1311	Advanced Terestris Cartography	4
3	RG1312	Database System	3
3	RG1313	Statistics	3
3	RG1315	Toponymy	3
4	RG1316	Digital Cartography	3
4	RG1317	Introduction to Photogrammetry	3
4	RG1318	Engineering Survey	3

Smt	Code	Courses	Credits
4	RG1319	Satellite Geodesy	3
4	RG1320	Alignment Calculation	3
4	RG1321	Map Projection	3
4	RG1322	Physical Oceanography	2
5	RG1323	Digital Photogrammetry	3
5	RG1324	Remote Sensing	3
5	RG1325	Global Navigation Satellite System Survey	4
5	RG1326	Geodesy Control Network	3
5	RG1327	Coordinate System and Transformation	3
5	RG1328	Occupational Camping	4
6	RG1330	Geographic Information System	4
6	RG1331	Mapping and Survey Management	3
6	RG1332	Hydrographic Survey	4
6	RG1333	Physical Geodesy	3
6	RG1341	Mining Mapping	3
6	RG1438	Tool Calibration**	3
6	RG1443	Applied Remote Sensing**	3
6	RG1455	land Information System**	3
7	IG1109	Technopreneurship	3
7	RG1234	Research Method	2
7	RG1335	Practical Work	3
7	RG1437	Geodesy Astronomy**	3
7	RG1439	Thematic Geospatial Information**	3
7	RG1442	Applied Geographic Information System**	3
7	RG1445	Close-range Photogrammetry**	3
7	RG1446	Hyperspectral Imaging**	3

Smt	Code	Courses	Credits
7	RG1450	Coastal and Sea Regional Management**	3
7	RG1451	Seabed Features**	3
7	RG1452	Ocean Flux and Reflux**	3
7	RG1454	Satellite Altimetry**	3
7	RG1459	Regional Boundary Cartography**	3
8	RG1440	Underground Survey**	2
8	RG1441	Participatory Cartography**	2
8	RG1444	Radargrammetry**	3
8	RG1447	Planning Information System**	2
8	RG1448	Geospatial Information Infrastructure**	2
8	RG1449	Maritime Law**	2
8	RG1453	Optical Marine**	3
8	RG1456	Three-dimensional Cadastre**	3
8	RG1457	Property Information System**	2
8	RG1458	Land Administration**	2
8	RG1460	Marine Cadastre**	3
8	RG1461	Land Valuation**	2
8	RG1462	Geodynamics and Deformation**	3
8	RG1463	Gravimetry**	2
8	RG1464	Physical Geodesy Astro**	2
8	RG1465	GPS Meteorology**	3
8	RG1466	Environmental Geodesy**	3
8	RG1536	Final Project	6

\* Select one of those with stars

\*\* Elective courses



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