

Department of **Civil Engineering**
DIV – Civil Engineering
FACULTY OF CIVIL ENGINEERING AND PLANNING
INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS)

Smt	Code	Courses	Credits
1	IG1106	Concept of Nationalism	3
1	IG1108	English	3
1	RC6201	Applied Physics	2
1	RC6203	Applied Mathematics	2
1	RC6307	Statically Determinate Engineering Mechanics	3
1	RC6309	Cartography I (Polygon and Waterpass Practical Work)	3
1	RC6311	Engineering Technique with Computer	2
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	RC6202	Applied Statistics	2
2	RC6304	Soil Mechanics I	3
2	RC6306	Voltage Engineering Mechanics	3
2	RC6308	Cartography II	3
2	RC6310	Civil Engineering Building Drawing	3
2	RC6312	Building Material Technique	2
3	RC6313	Civil Engineering Building Infrastructure	3
3	RC6317	Soil Mechanics II	3
3	RC6319	Introduction to Hydrology	2
3	RC6321	Statically Indeterminate Engineering Mechanics	3
3	RC6323	Introduction to Hydraulics	3
3	RC6325	Timber Structures	2
3	RC6327	Concrete Technology	3
4	RC6314	Construction Engineering, Heavy Equipment and SHE	4

Smt	Code	Courses	Credits
4	RC6316	Foundation Technique	2
4	RC6318	Aided Program for Civil Engineering	3
4	RC6320	Steel Structure Element Design	3
4	RC6322	Road Geometrics	2
4	RC6324	Applied Hydraulic	3
4	RC6326	Applied Hydraulic	2
5	RC6215	Numerical Methods	3
5	RC6331	Flexible Pavement Design	3
5	RC6333	Drainage	3
5	RC6335	Concrete Structure Element Design	3
5	RC6337	Design of Steel Structure	2
5	RC6339	Technical Economy, Budgeting and Construction Management	4
6	IG1107	Concept of Scientific Technology and Communication	3
6	IG1109	Technopreneurship	3
6	RC6328	Design of Concrete Structure	3
6	RC6330	Design of Bridge Structure	3
6	RC6436	Tall Building Structure Analysis**	4
6	RC6438	Prestressed Concrete Structures**	4
6	RC6440	Advanced Concrete Technology**	4
6	RC6441	Precast Concrete Structures**	4
6	RC6442	Building Repair, Maintenance and Evaluation**	4
6	RC6444	Chemical and Physical Analysis in Material Engineering**	4
6	RC6446	Occupational Health and Safety Management System**	4
6	RC6448	Project Designing, Scheduling and Controlling**	4

Smt	Code	Courses	Credits
6	RC6450	Contract (FIDIC) & Tender Strategy Management**	4
6	RC6452	Hydrographic Hydrometric and River Technique**	4
6	RC6454	Irrigation Design**	4
6	RC6456	Ground Water Technique**	4
6	RC6458	Harbor**	4
6	RC6460	Lighting and Electric Laboratory**	4
6	RC6462	Traffic Engineering**	4
6	RC6464	Transportation System**	4
6	RC6466	Urban Public Transport**	4
6	RC6468	Earthquake Engineering and Structure Dynamics**	4
6	RC6470	Prestressed Concrete Bridge**	4
7	RC6434	Tall Building Design and Construction**	4
7	RC6443	Composite Material & Structure**	4
7	RC6445	Offshore Building Structure**	4
7	RC6447	Risk Management**	4
7	RC6449	Value Engineering**	4
7	RC6451	Construction Equipment and Technology**	4
7	RC6453	Building Utility**	4
7	RC6455	Irrigation O&P**	4
7	RC6457	PLTA and Hydro Micro**	4
7	RC6459	Reservoirs and Dams Design**	4
7	RC6461	Water Resource Engineering**	4
7	RC6463	Water Building Design**	4
7	RC6467	Domestic Waste Management**	4
7	RC6469	Drainage System**	4
7	RC6471	Clean Water Supply Management**	4

* Select one of those with stars

** Elective courses

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Smt	Code	Courses	Credits
7	RC6472	Building Transportation O&P**	4
7	RC6473	Retarding, Bozem and Pump Design**	4
7	RC6474	Railway**	4
7	RC6476	Coastal Protection Structure**	4
7	RC6477	Coastal Engineering and Coastal Process**	4
7	RC6478	Advanced Design of Bridge Structure**	4

Smt	Code	Courses	Credits
7	RC6479	Harbor Technique**	4
7	RC6480	Special Topics**	4
7	RC6481	Estuary Engineering and Tidal**	4
7	RC6485	Coastal Building Design**	4
7	RC6487	Rigid Pavement Design**	4
7	RC6489	Traffic Management and Engineering**	4
7	RC6491	Road Safety**	4

Smt	Code	Courses	Credits
7	RC6493	Transportation Building Implementation Management**	4
7	RC6495	Design of Port Structures**	4
8	RC6329	Land Use	2
8	RC6384	Legal Factor and Professional Ethics	2
8	RC6398	Practical Work	2
8	RC6599	Applied Final Project	6

* Select one of those with stars

** Elective courses