

Tema Penelitian dan Pengabdian

Department of Civil Engineering		Research Road Map								
LABORATORY	RESEARCH AGENDA	RESEARCH AREAS								
		2012	2013	2014	2015	2016	2017	2018	2019	2020
Structure and Construction Materials	Utilization of Local / Waste Materials, Green Structure and Low Cost Housing	Utilization of Local or Waste Materials to Support Low Cost Housing & Green Tech.		High Durability and High Strength of Green and Low Cost Materials		Utilization of Local and Waste Materials to Reduce Damages Against Natural Disaster			Utilization of Local and Waste Material to Support the Energy Conservation	
Transportation and Highways	Sustainable Transportation	Development of Modal Choice Model for Green Transportation		Urban Transportation Emissions and Energy Use Towards Sustainable Development			Energy and Land use Impacts of Sustainable Transportation			
Soil Mechanic and Geology	Landslide and Soil Movement Mitigation	Early Warning System of Landslide Hazard and Mitigation Measures		Soil Improvement and Stabilization to Reduce the Risk of Disaster			Dynamic Effect Toward Stability of Soil			
Survey and Remote Sensing	Mapping of Vulnerable Area against Natural Disaster	Identification of Natural Disaster Vulnerable Area based on GIS and Remote Sensing		The Use of Remote Sensing and Mapping for Hazard Mitigation Strategy			The Use of Remote Sensing and Mapping for Energy Self Sufficient in Rural Area			
Computation and Informatics	Numerical approach on the Civil Structure and Environment	Modeling of Soil, Structure and Fluid		Interaction of Soil-Structure, Structure-Fluid & Soil-Fluid with Numerical Analysis		Numerical Analysis on The Disaster Mitigation Purposes		Numerical Analysis to Support Green Technology		
Design Studio	Reliability of Bridge and Civil Structures	Building Reliability Prediction (after disaster) Using Non-Destructive Tests		Structural Health Monitoring System and Reducing Life Cycle Cost			Increasing Structural Life Time with Green Technology Concept and Energy Conservation			

TOPIK TEMA PENELITIAN

Jurusan/Program Studi : Teknik Sipil/Program Studi S1 Teknik Sipil

Topik Tema Penelitian : Pengembangan Teknologi Ramah Lingkungan

No	Laboratorium	Topik Payung Penelitian
1	Struktur dan Bahan Konstruksi	Penanggulangan Bencana, Pemanfaatan material lokal/limbah, Struktur ramah lingkungan, Rumah murah

2	Transportasi dan Jalan Raya	Transportasi berkelanjutan
3	Mekanika Tanah dan Geologi	Mitigasi bencana longsor dan pergerakan tanah
4	Survei dan Penginderaan Jauh	Pemetaan wilayah/daerah rawan bencana
5	Komputasi dan Informatika	Pemodelan bangunan sipil dengan pendekatan numerik
6	Perancangan	Keandalan bangunan sipil

TOPIK TEMA PENGABDIAN

Topik Tema Pengabdian Kepada Masyarakat:

“Implementasi hasil penelitian untuk kepentingan masyarakat sesuai dengan potensi sumberdaya dan permasalahan lokal”