

ILO of BBE

No.	Intended Learning Outcome (ILO) Standard Construct
1.	Possess the understanding and capacity to conduct oneself as a conscientious member of society, with a deep affection for the nation, state, and culture of Indonesia guided by the principles of Pancasila; and operate autonomously with ingenuity, adaptability, and discernment in alignment with worldwide dynamics.
2.	Demonstrating a capacity for critical thinking, innovation, adaptability, and effective communication in alignment with the character and cultural background of students in the globalized era, educators and education personnel should possess scientific insights and practical values that are applicable to education and learning within the Indonesian context.
3.	Capable of applying management, technology, and engineering principles to the domain of building engineering through the application of research principles that adhere to academic standards and ethical guidelines; Capable of analyzing and resolving problems;
4.	Capable of analyzing and resolving problems, as well as applying engineering principles, technology, and management in the domain of transportation and bridge engineering, while adhering to professional standards and ethics while applying research principles;
5.	Capable of applying technological advancements and environmental concerns in a sustainable manner;
6.	Capable of analyzing and applying entrepreneurial principles and values, including independence, struggle, and adherence to business ethics, within the engineering sector.

Curriculum Structure and Course Distribution BBE

No	Course Cluster	Total Credit	ECTS
1.	Basic Courses on Character Development (MDPK) <ul style="list-style-type: none"> Religious Education (3 credits), Pancasila Education (2 credits), Civic Education (2 credits), Indonesian for Academic Purposes (2 credits), and Innovation Management (3 credits). 	12	16.37
2.	Courses on Subject Matter and Expertise (MKK) <ul style="list-style-type: none"> Basic Courses on Pedagogy (MDPK) (8 credits) Introduction to Education (2 credits) Learner Development (3 credits) Learning and Teaching (3 credits) a. Subjects of Study (MKBS) (90 credits) <ul style="list-style-type: none"> Core Courses (78 credits) Likened Courses for All Study Programs: (12 credits): Teaching Internship (PLP) (4 credits); Student Community Engagement (KKN) (4 credits); Field Work Practice (PKL)/Industrial Field Work Practicum (PRAKERIN) (4 credits) 	98	134.26
3.	Elective Courses and Transdisciplinary Courses (MPPD) (Including transdisciplinary courses)	128	174.34
Total Credit		238	324.96
Total Required Credit		146	199.86

The ILO Distribution at BBE

Standar ILO	1st s/d 4th Year							
	SMT-1	SMT-2	SMT-3	SMT-4	SMT-5	SMT-6	SMT-7	SMT-8
ILO 1	Religious Educati	Pancasila Education	Indonesian for Academic Purposes	Civic Education		Innovation Managemen		
ILO 2	Learner Development	Introduction to Educational Science	Evaluation of Education				Teaching Internship	
			Teaching and Learning					
			Vocational Education Curriculum					
ILO 3	Basic Engineering Drawing		Reinforced Columns & Foundations	Theory and Workshop Utilities				
	Theory and Practice Survey	Theory and Practice Material Testing						
	Civil Engineering Software	Mechanics of Materials	Bridge and Highway Construction	Foundation Engineering				
	Building Construction	Engineering Mathematics 2						
	Engineering Math 1	Reinforced Concrete Structure	Building construction technology					
		Hydro Construction						
		Statistics		Steel Truss Structures				
		Occupational health and safety						
ILO 4	Statically Determine Mechanics	Theory and Practice of Wood Construction	Theory and Practice of Soil Mechanics	Masonry Workshop and Finishing Work				Undergraduate Thesis
	English for Professional Purposes		Statically Indeterminate Mechanics	Research Methodology	Building Structures Design			

ILO 5				Edu Construction		Building Constructi on Design		
ILO 6				Construction Management	Entrepreneurs hip		Student Communit y Engagem ent	
				Cost Estimation of Building Components			Industrial Field Work Practicum	