

Name of Extension/Public Service (The name of the service being offered)	Human Systems Engineering Program (HSEP)
Objective (Description of the service being provided; History of service provision)	Human Systems Engineering (HSE) is the application of engineering principles, human factors and ergonomics, and methods in the design, improvement, and installation of processes and products fitted for the human end-user for optimal productivity, efficiency, safety, and health. IED-HSEP conducts studies on theoretical and applied ergonomics, human factors, methods engineering, and occupational safety and health to address the human element needs for all system types. The aim of the program is to produce students, local and national organizations, and researchers who have the capability and expertise in human systems for better product designs and work environment.
Duration/Date	As per request and type of service needed to be rendered
Target Beneficiaries	Students, researchers, and local and national organizations
Cost of Participation	Case-to-case basis. Cost of participation will depend on the type and nature of the service to be rendered.
Office in Charge	Department of Industrial Engineering College of Engineering and Agro-Industrial Technology University of the Philippines Los Baños
Office Profile Degree granting or non-degree granting Purpose of creation Location in the hierarchy (Background of the office providing the service i.e. Number of personnel and Key personnel providing the service)	Due to the growing demand for capable industrial engineers, the University of the Philippines Los Baños (UPLB) started to offer the Bachelor of Science in Industrial Engineering program during the first semester of AY 1999-2000, with eight shiftees as its pioneer students. Currently headed by Professor Haerold Dean Z. Layaoen, the first graduate of the curriculum, the Industrial Engineering Department (UPLB-IED) has around 300 students enrolled, with an average of 28 graduates per semester. The department has been developing consistently to achieve its mission, which is to serve as a Center of Development in engineering consciousness linked to proficiency in terms of industrial resources and systems and consistent with the protection and conservation of the natural environment. It also envisions to be a Center of Excellence for Industrial Systems Engineering in the Philippines under the National Engineering Education System of the Commission on Higher Education, and to serve as a national institute for research and

	development in industrial and systems engineering. This continuous development is manifested in the curriculum offered by IED. Since 1999, it has already undergone three revisions to maximize the potential of each student and to cater to the changes in the academe and the industry. Currently, there are 13 faculty and six administrative staff in IED.
Awards/recognition received by the office (The awards given by or received by the office offering the service, if any)	None
Official website and Social media accounts (The link to the official website of the service)	die.uplb.edu.ph facebook.com/iedceat/
External links for documentation (The external links featuring the service [for the electronic copy, e.g. features in newspapers etc.])	None
Contact details (The contact details of the head of the unit offering the service: fax, telephone, email, snail mail, map)	Haerold Dean Z. Layaoen Chairman (049) 536-6625, (049) 530-3407 hzlayaoen@up.edu.ph Aaron B. Jimenez Administrative Assistant II (049) 536-6625 abjimenez4@up.edu.ph
Other Remarks	Accomplished Researches: 1. Comparative Analysis of Using of Fluorescent in World-Class Setting of UPLB Small Classrooms and Offices at IESNA Standard Illumination Level 2. Characterization of Material-Surface Reflectance and Evaluation of LED and Fluorescent as Lighting Alternatives for

	the World-Class Setting of UPLB Small Classrooms and Offices 3. Application of IESNA/DOE reflectance standard in the World-Class Setting of Classrooms and Offices of UPLB 4. Evaluation of the Applicability of IESNA Standards on New Lighting Technologies 5. Optimizing the Combination of Commercially-Available Handle Grips and Engine Mounts to Reduce the Vibration Transmitted to Hand Tractor Operators 6. Baseline Measurement and Analysis of Hand-Arm Transmitted Vibration for Product Design and Development of Locally-Made Hand Tractors at University of the Philippines Los Baños, Laguna Current Research: 1. Ergonomic Assessment and Establishment of Recommended Standard Conditions for UPLB Offices
--	---