

## SSC-LO Interaction Matrixes of Plant Protection Study Programme

### a. SSC-LO of Knowledge (K) Matrix

	<b>K-1.</b> Mastering theoretical concepts of plant protection comprising the causal agents, symptoms, influencing factors, yield losses, and control techniques.	<b>K-2.</b> Mastering theoretical concepts of the exploitation of bio-resources to be used as main components of environ-mental friendly pest management system	<b>K-3.</b> Mastering theoretical concepts of agricultural ecosystem management as parts of environmentally friendly pest management system	<b>K-4.</b> Mastering theoretical concepts of appropriate and environmentally friendly pesticide application.	<b>K-5.</b> Mastering theoretical concepts of domestic and international plant quarantine	<b>K-6.</b> Being cooperative, sensitive and responsive to the society and environment.
<b>SSC-01.</b> know and understand the principles of natural sciences, social science, mathematics, medical science, economics and engineering their discipline is based on	H					
<b>SSC-02.</b> have a coherent knowledge in their discipline including knowledge of the latest findings in their discipline		H				
<b>SSC-03.</b> know concepts of identification and safeguarding of quality in their respective fields of work			H			
<b>SSC-04.</b> know the essential legal regulations relating to their discipline					H	

<b>SSC-05.</b> are aware of the further multidisciplinary context of agriculture, nutrition science, or landscape and neighboring fields.				H		



experimental (laboratory) analysis										
<b>SSC-08.</b> are qualified to plan and conduct respectively suitable experiments, interpret the data, and draw conclusions					H					
<b>SSC-09.</b> are able to pursue literature searches in a targeted way and to use data bases and other sources of information				H					H	
<b>SSC-10.</b> are qualified to carry out assessments on the basis of comparisons with literature references and plausibility considerations					H					



<b>SSC-14.</b> have developed an understanding of applicable techniques and methods and their limitations									H						
<b>SSC-15.</b> recognize the technical, health and safety, social, ecological, and legal implications of engineering practice in their field of scientific expertise											H				
<b>SSC-16.</b> can apply methods relevant for their profession												H	H	H	H
<b>SSC-17.</b> are aware of the usability and the restrictions of concepts and solution strategies			H												
<b>SSC-18.</b> can resort to experience with problems, topics, and processes relating to their scientific discipline											H				
<b>SSC-19.</b> are able to consult adequate literature and information sources and coordinate the work of experts												H			

d. SSC-LO of Attitude and Norm (AN) Matrix

	<b>AN-1.</b> Believing in God the Almighty, and is capable of showing religious attitude	<b>AN-2.</b> Upholding human values while on duty, based on religion, moral and ethics	<b>AN-3.</b> Contributing to the improvement of life quality at the society, nation and state levels, and to the advancement of civilization based on Pancasila	<b>AN-4.</b> Playing an important role as a citizen who is proud and loves the country, has spirit of nationalism and responsibility to the nation and state.	<b>AN-5.</b> Respecting to the diversity of culture, insight, religion, belief, and other people' s originality.	<b>AN-6.</b> Being cooperative, sensitive and responsive to the society and environment.	<b>AN-7.</b> Complying with the law and discipline in living under society and state.	<b>AN-8.</b> Internalizing academic values, norms and ethics. Showing attitude of personal responsibility for the works under his/her expertis	<b>AN-9.</b> Showing attitude of personal responsibility for the works under his/her expertis	<b>AN-10.</b> Internalizing the spirit of self-confidence, exertion and entrepreneurship.	<b>AN-11.</b> Caring about the safety of food crop products from pesticide contamination
<b>SSC-20.</b> Graduate are able to work efficiently on their own and as team members									H		
<b>SSC-21.</b> Graduate are qualified to apply different methods to communicate effectively with the scientific community and the society as a whole				H		H					
<b>SSC-22.</b> feel obliged to act in accordance with professional ethics and the responsibilities and standards of practical engineering	H				H		H	H			H
<b>SSC-23.</b> are aware of the methods of project management and business practices such as risk and change management and understand their limitations		H									
<b>SSC-24.</b> recognize the necessity of independent life-long learning and are qualified to do so			H	H							

<b>SSC-25.</b> depending on the professional field they have competences in the fields of management and marketing, in particular project management, acquisition, personnel management, controlling etc									H		
<b>SSC-26.</b> are adequately competent in the area of communication, e.g. presentations or moderation											H