ITTP Learning Goal and Learning Objectives

Learning Goal	Learning Objectives	Where to Measure?	How to Measure? (Rubrics)	Implementation Status
Global Understanding - Our graduates learn to view the world in various aspects (L1)	1. Our graduates understand global business issues and relate current and potential upcoming issues to emerging technology development in their country. (L11) 2. Our graduates have multi-cultural understanding to make new global relations and actively cooperate with various people from all over the world. (L12)	1. Course-embedded Survey 2. Course-embedded Survey	1. Course-embedded Survey 2. Course-embedded Survey	
Leadership and Innovation Management - Our graduates use team building and high-performance management behaviors to lead a governmental task successfully in competitive environment (L2)	1. Our graduates have high-performance leadership skill for effectively managing members in their government to deal with organizational challenges. (L21) 2. Our graduates have thorough understanding of fundamental theories in innovation studies and are able to understand the mechanism of innovation management in technology and government projects. (L22)	1.Course-embedded Survey 2. Course-embedded Survey	1. Course-embedded Survey 2. Course-embedded Survey	

Domain Expertise in IT Management - Our graduates develop professional knowledge and exhibit professional competencies in IT management (L3)	1. Our graduates build specific knowledge of IT management and understand key issues. (L31) 2. Our graduates apply domain expertise to various business problems in IT management. (L32)	1. Course-embedded Survey 2. Course-embedded Survey	1. Course-embedded Survey 2. Course-embedded Survey
Strategic & Cross-disciplinary Competency - Our graduate are able to strategically analyze business cases and integrate different disciplines in solving business problems in government projects (L4)	1. Our graduates use appropriate analytical techniques to solve business problems and demonstrate the ability of sound business judgment. (L41) 2. Our graduates synthesize different discipline areas. (L42)	1. Course-embedded Survey 2. Course-embedded Survey	1. Course-embedded Survey 2. Course-embedded Survey

Rubrics to assess achievements of learning objectives

L1. Global Understanding: Our graduates learn to view the world in various aspects.

L11. Our graduates understand global business issues and relate current and potential upcoming issues to emerging technology development in their country.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	2 (Meets Expectations)	3 (Exceeds Expectations)
1. Ability to understand global issues	· No or lacking understanding of some or all of global issues on economy, culture, law, demography, etc.	· Some understanding of global issues	· Clear and complete understanding of global issues
2. Ability to analyze global issues	· No analysis of impact of · global issues; erroneous analysis of impact	· Some analysis of impact of global · issues; some inaccuracies in analysis	· Clear, accurate and detailed analysis · of impact of global issues
3. Ability to apply analysis to global business situation	· No application of analysis to specific global business situation; incorrect conclusions or recommendations made.	· Some application of analysis to specific global business situation, weak conclusions or recommendations made	· Clear application of analysis to global business situation; valid conclusions and good recommendations given
4. Ability to understand cultural differences	· Fails to adjust for cultural differences	· Some consideration given to cultural differences	· Extensive consideration given to cultural differences, including appropriate modification of communication

L12. Our graduates have multi-cultural understanding to make new global relations and actively cooperate with various people from all over the world.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	2 (Meets Expectations)	3 (Exceeds Expectations)
1. Understanding of global relations	· Somewhat understands global relations and major characteristics	· Mostly understands global relations and major characteristics	· Fully understands global relations and major characteristics
2. Global manners	· Somewhat understands global manners and cultural differences	· Mostly understands global manners and cultural differences	· Fully understands global manners and cultural differences
3. Communication	· The communication skills and strategies are minimally evident, appropriate, and/or correct.	· The communication skills and strategies are somewhat complete, appropriate and/or correct.	· The communication skills and strategies are mostly complete, appropriate and correct.

L2. Leadership and Innovation Management: Our graduates use team building and high-performance management behaviors to lead a governmental task successfully in competitive environment.

L21. Our graduates have high-performance leadership skill for effectively managing members in their government to deal with organizational challenges.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	2 (Meets Expectations)	3 (Exceeds Expectations)
1. Confidence	· Gives an impression of reluctance or uncertainty about exercising leadership	· Looks comfortable and confident in exercising leadership duties	· Uses strong verbal and non verbal behavior to convey authority and concern
2. Interpersonal skill	· Has no convincing, caring, and believable influence on colleagues and/or is unable to gain trust from teammates	· Has some convincing, caring, and believable influence on colleagues and/or is able to gain trust from teammates at times	· Has convincing, caring, and believable influence on colleagues and gains trust from teammates at all times
3. Conflict management and problem solving	· Has no or ineffective idea for managing conflicts and solving problems	· Deals with conflicts quite well and is good at problem solving	· Manages conflicts very smoothly and solves problems in ways that satisfy everyone
4. Ability to focus on goals	· Lets the group ramble or stray off track too much, or keeps the group so rigidly on track that relevant issues or concerns are ignored	· Keeps group on track by managing time, providing coaching or guidance, or resolving differences as needed. Intervenes when tasks	· Develops and adheres to a calendar of activities and/or checklists.

		are not moving toward goals	
5. Multitasking	· Fails to handle many different issues simultaneously and is unable to figure out priorities and fast-changing business needs	· Handles some different issues simultaneously, sets priorities, and meets changing business needs	· Handles all tasks at once and has an effective prioritizing skill that meets fast-changing business needs at all times.

L22. Our graduates have thorough understanding of fundamental theories in innovation studies and are able to understand the mechanism of innovation management in technology and government projects.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	2 (Meets Expectations)	3 (Exceeds Expectations)
1. Understanding of theories	· Misunderstands or superficially understands assumptions, motivations, justifications and implications of basic theories	· Understands most but not all aspects of basic theories	· Correctly understands all aspects of basic theories
2. Applying theories	· Derivation or application of theories is not strong enough to support research arguments.	· Derivation or application of theories supports research arguments, but with some logical gap or unnatural assumptions.	· Derivation or application of theories strongly supports research arguments.
3. Properly using appropriate research tools	· Methods and tools used for research is irrelevant with research arguments.	· Methods and tools used for research is relevant with research arguments. But there is a room for improvement.	· Methods and tools used for research is perfectly adequate to address a research arguments.
4. Knowledge level of current events in one's own research area	· Has no knowledge of currently important or actively discussed topics in their research area.	· Has some knowledge of currently important or actively discussed topics in their research area.	· Fully aware of currently important or actively discussed topics in their research area.

L3. Domain Expertise in IT Management: Our graduates develop professional knowledge and exhibit professional competencies in IT management

L31. Our graduates build specific knowledge of IT management and understand key issues.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	2 (Meets Expectations)	3 (Exceeds Expectations)
1. Knowledge on IT industries	· IT industry key concepts and issues are not identified or they are identified inappropriately.	· Appropriately addresses most of the IT industry key concepts and issues but omits or identifies a few of the minor ones.	· Appropriately addresses all key IT industry key concepts and issues and most of the minor ones.
2. Understanding of the key issues of IT business environment	· Shows no understanding of the key issues of IT business environment.	· Recognizes and shows reasonable · appreciation some of the key issues of · IT business environment.	· Recognizes and appreciated the key issues of IT business environment

L32. Our graduates apply domain expertise to various business problems in IT management.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	2 (Meets Expectations)	3 (Exceeds Expectations)

1. Application of IT industry knowledge to specific problems	· No application of IT industry
	· knowledge to a specific problem;
	· Incorrect conclusions or
	  recommendations made
		· Some application of IT industry
		· knowledge to a specific problem;
		· Weak conclusions or
		  recommendations made
			· Comprehensive application of IT
			  industry to a specific problem;
			  Strong conclusions made;
			  Creative recommendations given

2. Solution recommendation using structured approach	· Not a successful solution	· Minimally successful solution
		· (modification or improvement);
		· Use structured analysis or model
			· Highly successful
			  solution(uniquely
			· creative); Show reasonable
			  analysis and model

L4. Strategic & Cross-disciplinary Competency: Our graduate are able to strategically analyze business cases and integrate different disciplines in solving business problems in government projects

L41. Our graduates use appropriate analytical techniques to solve business problems and demonstrate the ability of sound business judgment.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	**2 (Meets Expectations)**	**3 (Exceeds Expectations)**
1. Detecting problems	· Does not attempt to or fails to identify and summarize accurately	· Summarize issues, though some aspects are incorrect or confused	· Clearly identifies the challenge and subsidiary, embedded, or implicit aspects of issues. Identifies integral relationships essential to analyzing issues
2.Factual knowledge	· Shows little knowledge of case facts, makes factual mistakes	· Shows solid understanding of case facts	· Shows through grasp of case facts and offers additional factual knowledge about company or industry
3.Applying strategic analytical tools	· Misuses strategic analysis tools, · concepts, and techniques	· Appropriately strategic analysis tools, concepts, and techniques	· Shows strong understanding and · application of strategic analysis tools, concepts, and techniques
4. Qualitative and quantitative analysis	· Analysis is poor and shallow, not consistent with the criteria or does not use facts correctly	· Analysis/evaluation is adequate, relatively consistent with criteria and facts are generally used correctly	· Qualitative and quantitative analysis/evaluation is effective, consistent with criteria and facts are used correctly

5. Advanced analytical techniques	· Does not use any advanced analytical techniques such as statistical analysis and decision science tools	· Somewhat uses advanced analytical techniques such as statistical analysis and decision science tools to analyze data and solve the problem	· Effectively uses advanced analytical techniques to analyze data and solve the problem
6. Logical Analysis	· Analysis is poorly organized and does not flow effectively	· Analysis is reasonably well organized and flow is adequate	· Analysis is very well organized and flow is logically effective
7.Business judgment	· Shows little attention to presenting · sound arguments or backing up ideas with analysis; offers "I think" · statements	· Provides good arguments backed up with factual knowledge, analysis, and persuasive rationale	· Provides strong rationale and convincing arguments throughout; demonstrates sound business judgment

L42. Our graduates synthesize different discipline areas.

Traits	Performance Levels		
	1 (Fails to Meet Expectations)	**2 (Meets Expectations)**	**3 (Exceeds Expectations)**
1. Ability to see from multiple perspectives	· Deals only with a single perspective and fails to discuss possible perspectives from other disciplines.	· Begins to relate alternative views from other disciplines to qualify analysis.	· Addresses perspectives noted previously, and additional diverse perspectives other disciplines to qualify analysis.
2. Management with basic principles	· Lacks understanding of basic · management principles and strategic thinking approach..	· Shows clear comprehension of basic management principles and strategic thinking approach.	· Integrates and applies basic management principles and strategic thinking approach across multiple disciplines.
3. Knowledge on disciplines	· Does not incorporate appropriate · argumentation and methodology of · other disciplines	· Somewhat applies appropriate · argumentation and methodology of · other disciplines	· Clearly and reflectively applies · appropriate argumentation and · methodology of other · disciplines
4. Intellectual ability	· Does not yet demonstrate intellectual acuity, imagination, and sensitivity.	· Somewhat Demonstrates intellectual acuity, imagination, and sensitivity.	· Demonstrates a high degree of · intellectual acuity, imagination, and sensitivity.
5. Integration skill	· Does not yet integrate · interdisciplinary skills and · knowledge.	· Partially integrates interdisciplinary · skills and knowledge.	· Successfully integrates interdisciplinary · skills and knowledge.

6. Awareness of inter-relationships	· Does not yet demonstrate awareness of inter-relationships among self, discipline, business, and society.	· Demonstrates some awareness of interrelationships among self, discipline, business, and society	· Clearly demonstrates an awareness of inter-relationships among self, discipline, business, and society.