



#### 1. Course and Instructor Information

College:	Science
Department:	Information Technology and Information Systems
Course Title:	Technopreneurship (Lec & Lab)
Course Code:	IT 426/IT426L
Pre-Requisite:	IT 327/IT327L Applications Development & Emerging Technologies (Lec/Lab)
Co-Requisite:	
Credit Units:	3 units (2 units Lec / 1 unit Lab)
Instructor:	
<b>Consultation Hours:</b>	

#### 2. Course Description

Technopreneurship is a philosophy, a way of building career or perspective in life. This course covers the principles and theories of Technopreneurship, the value of professional and life skills in entrepreneurial thought, investment decision, and action that students can utilize in starting technology companies or executing Research and Development (R&D) projects in companies and they start their career. The focuses of the course are on business concept development and feasibility analysis to assess the viability of the concept.

The course includes concepts of Technopreneurship, creativity, innovation, and new venture creation process. Students will learn to generate ideas, identify opportunities and investigate whether it can be turned into a viable business through value proposition and feasibility analysis. Students are expected to develop and implement a Start-up Business Plan.

# 3. Student Outcomes (SO) Relationship to Performance Indicators (PI) and Course Outcomes (CO)

	<b>Student Outcomes</b>	Performance Indicator	Course Outcomes					
C	a. Analyze complex problems, and identify and define the computing requirements appropriate to its solution	c.1 Identify user needs and requirements based on a comprehensive gathering of data and information.	CO1. Demonstrate clearly the concepts of Technopreneurship, entreprenuership, technology, business ownership, ideation, creativity and innovation and business plan concept.					
g	through the use of current techniques, skills, tools and practices necessary for the IT profession	g.2 Select, use and adapt appropriate techniques, methodologies, standards/frameworks, methods and tools to complex computing activities	CO2. Manage a start-up business successfully and apply ethical responsibilities in running a					

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<b>Student Outcomes</b>	Performance Indicator	Course Outcomes
h. Function effectively as a member or leader of a development team recognizing the different roles within a team to accomplish a common goal	h.4 Properly set project goals to complete team objectives.	business to ensure sustainability for future expansion.
j. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing, presentations, and clear instructions	j.4 Deliver presentations effectively and efficiently to various audience (computing community, society at large, and users)using English and Filipino as needed, with appropriate tone, correct grammar and construction	CO3. Develop viable business plans into commercially focused projects and create minimum viable product with detailed prototype suitable for venture funding and commercialization

### 4. Course Outcome-Student Outcome Matrix

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COURSE OUTCOMES	Course Intended Learning Outcomes	a	b	c	d	e	f	g	h	i	j	k	l	m	n
CO1. Demonstrate clearly the	CILO 1			Ι											
concepts of Technopreneurship,	CILO 2			Ι											
entreprenuership, technology, business ownership, ideation,	CILO 3			Ι											
creativity and innovation and	CILO 4			E											
business plan concept	CILO 5			E											
CO2. Manage a start-up	CILO 6							Е							
business successfully and apply ethical responsibilities in	CILO 7								D						
running a business to ensure sustainability for future	CILO 8							D	D						
expansion.	CILO 9							D	D						
CO3. Develop viable business plans into commercially focused projects and create minimum viable product with detailed prototype suitable for	CILO 10										D				
venture funding and commercialization	CILO 11			D				D	D		D				

# I - Introductory, E - Enabling, D - Demonstrative

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#### 5. Course Output

As evidence of attaining the above course intended learning outcomes (CILO), the student is required to accomplish and submit the following during the indicated period/dates within the term:

COURSE OUTCOMES	Course Intended Learning Outcomes	Required Output
CO1. Demonstrate clearly the concepts of Technopreneurship, entreprenuership, technology, business ownership, ideation, creativity and innovation and business plan concept	CILO 1 CILO 2 CILO 3 CILO 4 CILO 5	Laboratory Activity Preliminary Examination Midterm Examination
CO2. Manage a start-up business successfully and apply ethical responsibilities in running a business to ensure sustainability for future expansion.	CILO 6 CILO 7 CILO 8 CILO 9	Project (Partial)
CO3. Develop viable business plans into commercially focused projects and create minimum viable product with detailed prototype suitable for venture funding and commercialization	CILO 10 CILO 11	Laboratory Activity Final Exam Project (Complete)

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#### 6. Rubrics

# STUDENT OUTCOME ASSESSMENT FORM

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Student Name:					Student Number :		Semester:		School Year:		
Name of Faculty-in-C	harge:				Section:		l		<b>-</b>		
Please rate the during the course	student acc	cording to the ex	xpected studen	nt outcor	nes. Indicate your ra	ting per dimension tha	t represents	the level o	of competence demons	strated	by the studen
Student Outcome	Performa	ance Indicator	Criteria	ì	Unacceptable (1)	Minimally Acceptable (2)	As Expe	cted (3)	Beyond Expectations (4)	Score	Equivalent Weight (Score * Criteria %)
c. Analyze complex problems, and identify and define the computing requirements appropriate to its solution	and red based compr	ehensive ing of data and									
	and rec determ areas w	ting solutions									
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d. Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems	Formulate literature necessary for the understanding of requirements and solutions				
e. Design, implement, and evaluate computer-based systems, processes, components, or programs to meet desired needs and requirements under various constraints f.	3. Design systems, components, or processes with resourcefulness, imagination, insight, originality, aesthetic judgment, enterprise and risk taking approach to meet specified user needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations				
g. Apply knowledge through the use of current techniques, skills, tools and	2. Select, use and adapt appropriate techniques, methodologies,				

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practices necessary for the IT profession	standards/frameworks, methods and tools to complex computing activities						
	Perform effectively     and efficiently     assigned task with or     without supervision.						
h. Function effectively as a member or leader of a development team recognizing the different roles within a team to	Properly set project     goals to complete team     objectives	10% Leadership (Spearheads the project completion of the team.)	There is no one that leads the completion of the project.	The chosen leader is NOT able to perform fully his/her task in leading the completion of the project.	The chosen leader was able to perform most of his/her task in leading the completion of the project.	The chosen leader was able to perform fully his/her task in leading the completion of the project	
accomplish a common goal.	Plan tasks and allocate different resources needed by the team in accomplishing team objectives.	10% Management  (Manages tasks and resources for the consumption of the team to achieve team objectives.)	Tasks and resources were NOT managed for the consumption of the team to achieve team objectives.	Tasks and resources were minimally managed for the consumption of the team to achieve team objectives.	Tasks and resources were mostly managed for the consumption of the team to achieve team objectives.	Tasks and resources were fully managed for the consumption of the team to achieve team objectives.	
j. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing,	4. Deliver presentations effectively and efficiently to various audience (computing community, society at large, and users)using English and Filipino as needed, with appropriate tone,						

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presentations, and	correct grammar and						1			
clear instructions	construction									
TOTAL										
INTERPRETATION										
REMARKS/COMMENTS/RECOMMENDATIONS:										
Name &	Signature of Evaluator									

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### 7. Learning Plan

CO#	Course Intended Learning Outcome (CILO)	Week No.	Topics	Teaching and Learning Activities (Traditional)	Teaching and Learning Activities (Synchronous)	Teaching and Learning Activities (Asynchronous)	Assessment Tasks
CO1	CILO1. Understand and differentiate the concepts, elements, process and environment between Technoprene urship and Entrepreneur ship	1 - 2	Module 0. Online Class Orientation  Vision, Mission, Core Values, Hymn, and Prayer of the University.  Content of the Syllabus, Course Requirements, and Grading System.  Guidelines, Policies and Proper Netiquette During Online Classes  Module 1. Introduction to Technopreneurship  What is Technopreneurs hip? Comparison: Technopreneurs hip vs. Entrepreneurs hip vs. Entrepreneurs ip  Characteristics of an Entrepreneur and Technopreneur  Importance and Benefits	Lecture Discussion Demonstration	Online Orientation via Google Meet (Meeting URL to be posted here)  Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Interactive Discussion Board (in BB)	Video Presentation of the Class Orientation  Module 1: (Powerpoint Presentation)  Discussion Board (in BB)	Short Quiz
CO1	CILO 2 Discuss and explain the introductory topics that covers Consumer protection and e- commerce law	3	Module 2. Consumer Protection Law and e- Commerce consumer Protection Law (RA 8792 of the Philippines)  Module 3. E-Commerce Law in the Philippines	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 2: (Video Presentation)  Discussion Board (in BB)  Module 3: (Video Presentation)	Assignment Short Quiz

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CO#	Course Intended Learning Outcome (CILO)	Week No.	Topics	Teaching and Learning Activities (Traditional)	Teaching and Learning Activities (Synchronous)	Teaching and Learning Activities (Asynchronous)	Assessment Tasks
CO1	CILO 3. Differentiat e entrepreneu rial mindset to opportunity recognition by applying strategies in generating new ideas from the different types of fundamenta l venture	4	Module 4. Opportunity Identification & Creation	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 4: (Video Presentation)  Discussion Board (in BB)	Assignment Short Quiz
CO1	CILO 4. Explain what a value proposition is and understand why a company may develop different value propositions for different target markets.	5 - 6	Module 5. Value Proposition	Lecture Discussion Demonstration Group Activity	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Group Collaboration	Module 5: (Video Presentation)  Group Collaboration (in BB)	Preliminary Examinatio n (6 <sup>th</sup> Week)
CO1	CILO 5. Explain the detailed components and purposes of the different business plan, marketing plan, operational plan and financial plan in the developme nt of a business model canvass	7 - 8	Module 6: Business Plan and Models      Business plan     Elements of a     Business Plan     Types of business plan     Business plan     format     Business model     Parts of a business     model     Business model     canvass	Lecture Discussion Demonstration Group Activity	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 6: (Powerpoint Presentation)  Group Collaboration (in BB)	Assignment Group Work (Think - Pair Share Participation ) Laboratory Activity

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CO#	Course Intended Learning Outcome (CILO)	Week No.	Topics	Teaching and Learning Activities (Traditional)	Teaching and Learning Activities (Synchronous)	Teaching and Learning Activities (Asynchronous)	Assessment Tasks
CO2	CILO 6. Analyze the importance of competitor analysis and branding in acquiring distinct opportunities and threats in the market.	9 - 10	Module 7. Market Communications, Competitive Analysis, and Strategy Formulation Customer Interface	Group Presentation (Reporting)  Discussion  Demonstration	Online Reporting  – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 7: (Powerpoint Presentation)  Discussion Board (in BB)	Presentation Rubric Quiz
CO2	CILO 7. Design a Business Model Canvass that shows the legal and organizati onal structure of the business.	11-12	Module 8. Organization and Management	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration	Module 8: (Interactive Slide Presentation)	Project Point Checking (Partial)  Midterm Examinatio n (12 <sup>th</sup> Week)
CO2	CILO 8. Design and develop innovative products with sustainabl e competitiv e advantage and satisfy customer needs	13-14	Module 9. Product Development	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 9: (Powerpoint Presentation)  Discussion Board (in BB)	Assignment

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CO#	Course Intended Learning Outcome (CILO)	Week No.	Topics	Teaching and Learning Activities (Traditional)	Teaching and Learning Activities (Synchronous)	Teaching and Learning Activities (Asynchronous)	Assessment Tasks
CO2	CILO 9: Formulate a marketing and sales strategy that will identify the customer base on user needs and satisfactio n	15	Module 10. Marketing and Sales	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 10: (Video Presentation)  Discussion Board (in BB)	Recitation Quiz
CO3	CILO 10: Create engaging pitches and deliver excellent presentatio ns to potential investors or customers	16	Module 11. Pitching Pitch Pitch Process Different Types of Pitches The elevator pitch Pitch Guidelines	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)	Module 11: (Video Presentation)  Discussion Board (in BB)	Online Activity Elevator Pitch
CO1, CO2, CO3	CILO 11: Validate and test the MVP by presenting to complete the buil/measur e/learn loop	17	Module 12. Present a Minimum Viable Technology Product (MVP) The Minimum Viable Product The MVP Process The MVP Matrix The Idea Behind MVP Key Attributes for Developing MVP 8 Key Minimum Viable Product Examples Build a Minimum Viable Product: 3-Step Process Tips for MVP	Lecture Discussion Demonstration	Online Interactive Discussion – Google Meet (Meeting URL to be posted here)  Virtual Demonstration  Scheduled Discussion Board (in BB)  Live Presentation of the Final Project - Google Meet (Meeting URL to be posted here)	Module 12: (Video Presentation)  Discussion Board (in BB)  Short Video Presentation of the Final Project	Quiz Final Project
		18		Fin	al Examination		

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### 8. Other Requirements and Assessments

Aside from the course output, the student will be graded at other times during the term by the following:

- 1. Self-Assessment
- 2. Homework
- 3. Case Study/ Readings

#### 9. Grading System

Prelim Period	Midterm Period	Final Period	Semestral Grade
Class standing = 60% Prelim exams = 40%	Class standing = 60% Midterm exams = 40%	Class standing = 50% Final = 50%	
Term Grade = + 70% lecture + 30% lab	Term Grade = + 70% lecture + 30% lab	Term Grade = + 70% lecture + 30% lab	P+M+F = Semestral Grade
			65≥69 (removal) ≥ 70 ( to pass)

#### 10. Textbooks/References

Title	Author	Year
Entrepreneurship: theory, process, practice (10 <sup>th</sup> Edition)	Donald F. Kuratko	2017
Effective entrepreneurial management : strategy, planning, risk management, and organization	Robert D. Hisrich, Veland Ramadani	2017
Entrepreneurship: ideas in action	Cynthia L. Greeene	2019
Technology entrepreneurship: taking innovation to the marketplace	Thomas N. Duening,	2019
Strategic Entrepreneurship: Integrating Entrepreneurial and Strategic Management Perspectives	Michael A. Hitt,	2017

### 11. Online Classroom Policies

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- 1. Regular attendance is expected. Attendance policy as stipulated in the student manual handbook will be implemented.
- 2. Cheating:
  - a. Long Quiz: each of the parties involved will receive a zero for that particular quiz.
  - b. Final Exam: All parties involved will automatically receive 5.0 as final grade.
- 3. Individual learning is based on your attendance and timely submission of course requirements.

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