



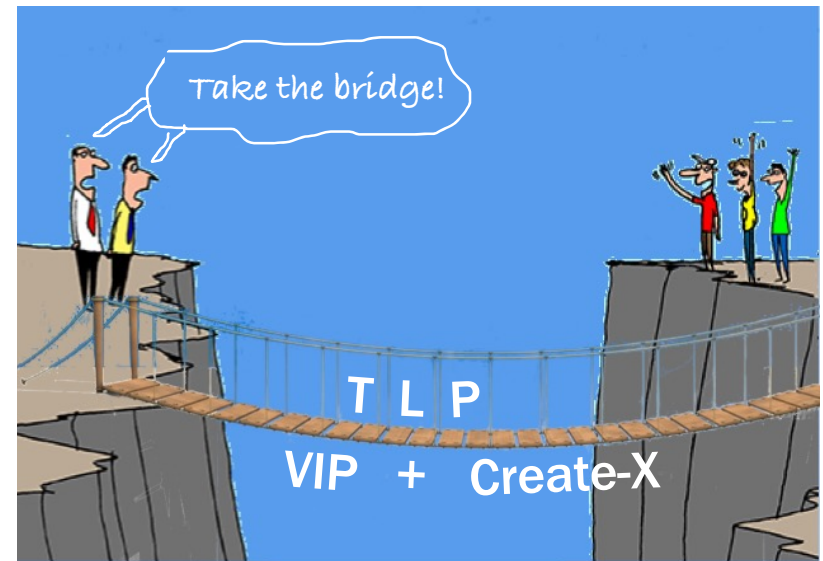
Vertically Integrated Projects– **VIP AUB**

American University of Beirut

May 11, 2023

VIP Introduced in 21-22 as part of TLP Pilot at AUB

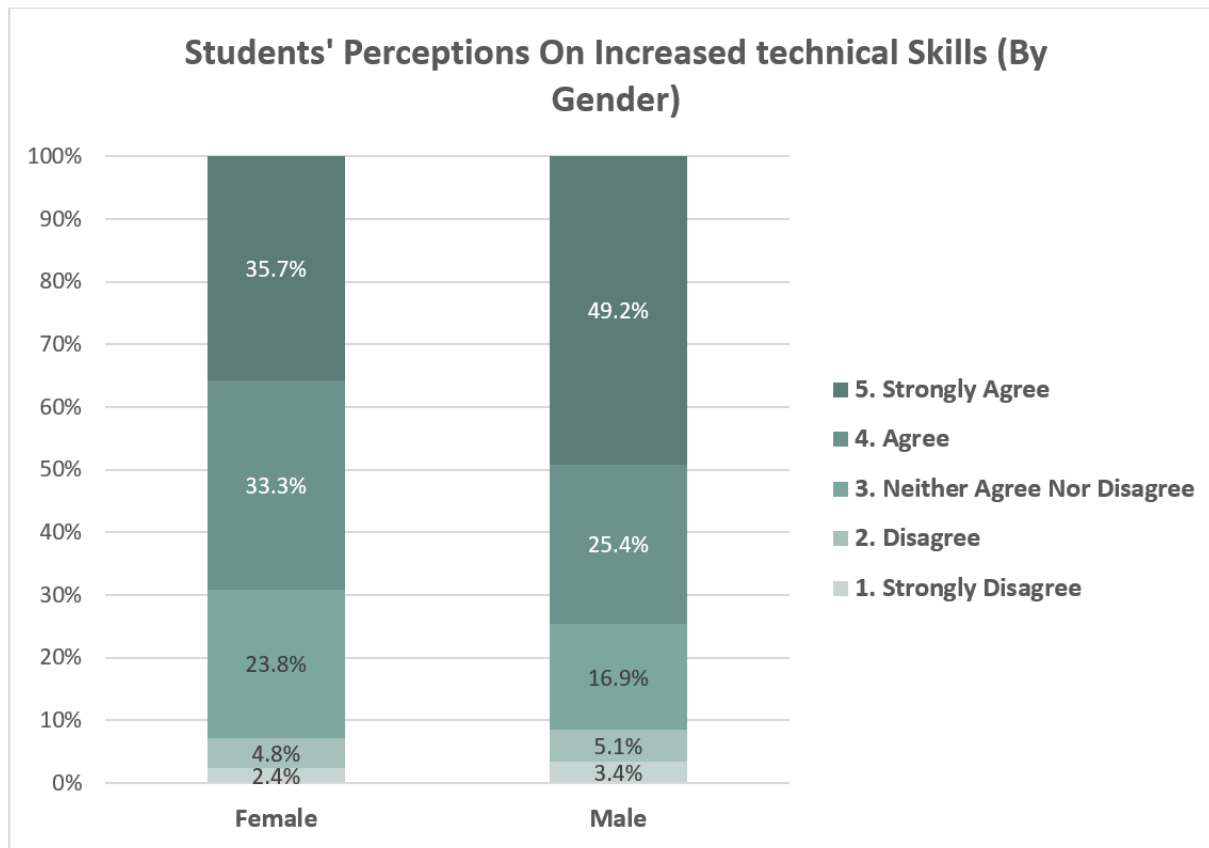
- Bridge the skills gap between industry & fresh graduates
 - 45 AUB students
 - 14 Projects (3 VIP, 9 Create-X, 2 Hybrid)
 - 23 Faculty mentors
 - 7 Industry partners



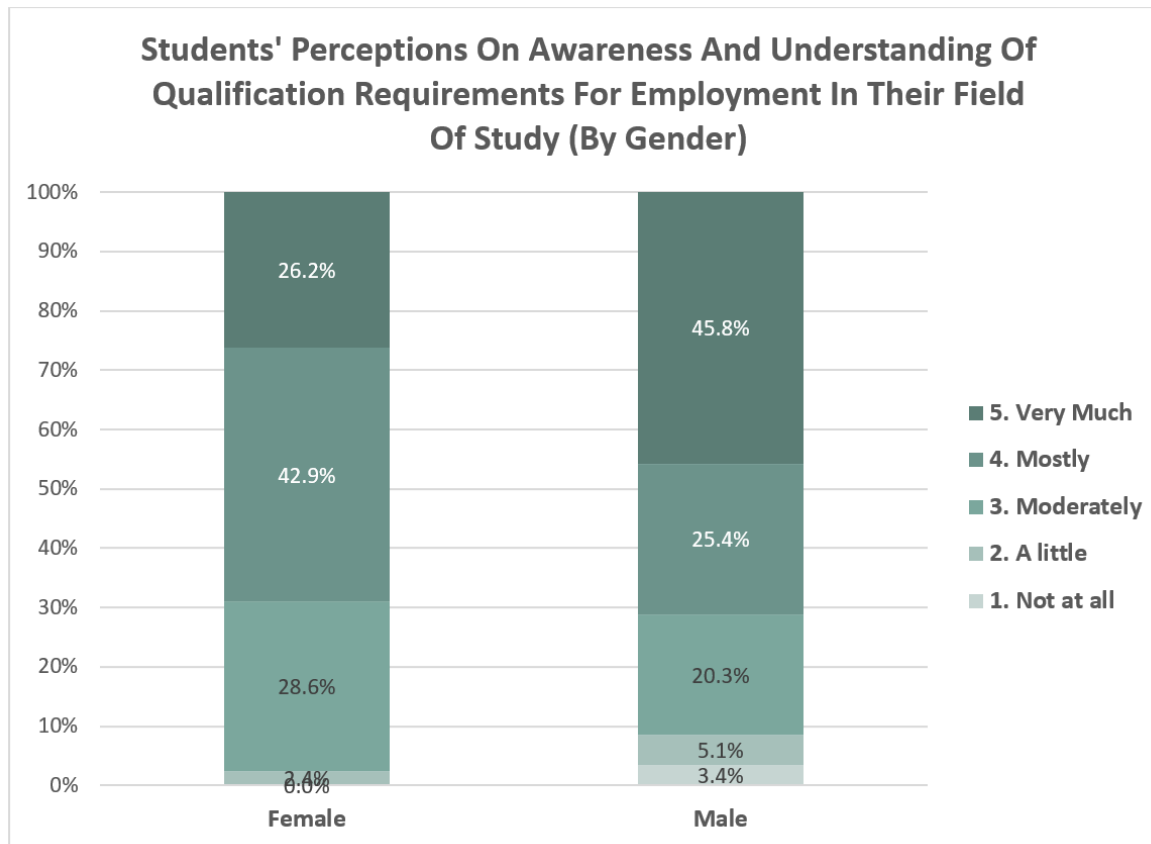
KEARNEY



Student Satisfaction Feedback from Pilot

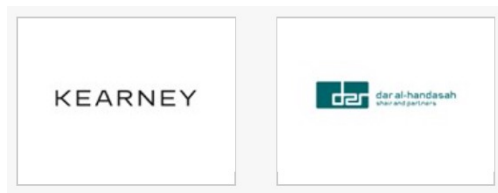
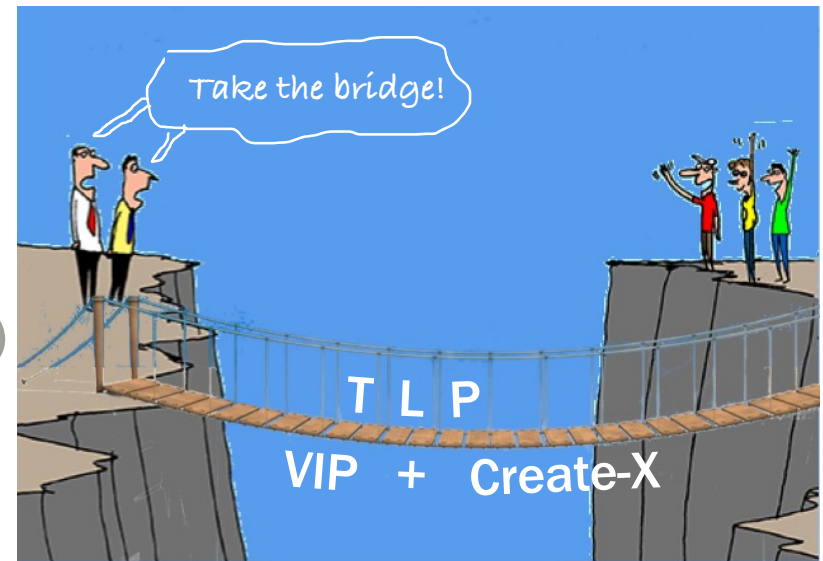


Student Satisfaction Feedback from Pilot



VIP Continued in 22-23 as part of TLP (restricted to Tomorrow's Leaders students)

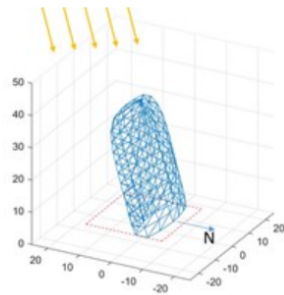
- Bridge the skills gap between industry & fresh graduates
 - 30 AUB students
 - 11 Projects (6 VIP, 2 Hybrid, 3 Create-X)
 - 14 Faculty mentors
 - 6 Industry partners



Benta Trading

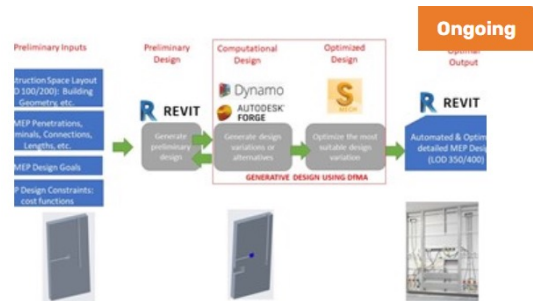


6 VIP Projects



Ongoing

Computer-Based Design Process for Climate Responsive Buildings



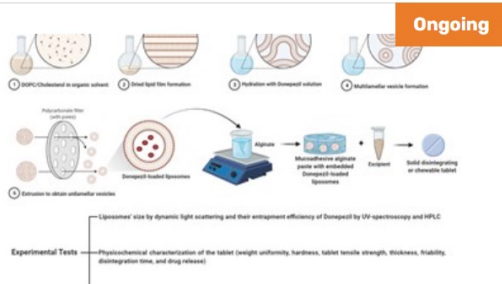
Ongoing

Generative Design for Enhanced 3D MEP Modular Engineering & Construction (GD-MEP)



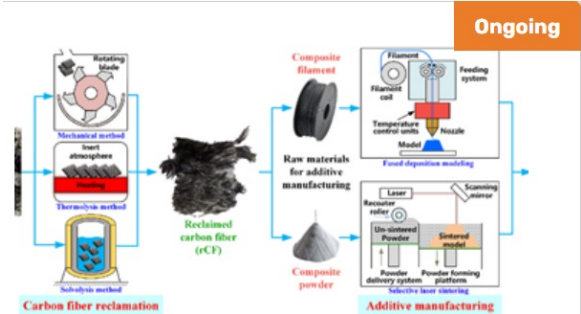
Ongoing

Developing Digital Interfaces and Designing Metadata Protocols with Photographic Archives in the Arab world



Ongoing

Developing donepezil-loaded liposome nanoparticles for enhanced oral mucosal drug delivery



Ongoing

Recycled Carbon Fiber Composites for Sustainable 3D Printing



Ongoing

Supporting NGOs as agents of change in the MENA region

2 VIP/Create-X Projects



Ongoing

**COFED: COrruption and Fraud
Eradication using a US patented
Device**



Ongoing

**Enhancing Safety of Dairy
Products with a Smart
Temperature-Memory Label**

VIP Students in 2022-2023

Project	Project Name	Type	Faculty Mentor	Industry Partner	Students	G	Year	Major	Nation
1	Computer-Based Design Process for Climate Responsive Buildings	VIP	Aram Yerezian, Rabih Jabr	Dar Al-Handasah (Shair & Partners)	Student 1	M	E3	Computer & Communications	Lebanon
					Student 2	M	Senior	Computer Science	Yemen
2	Developing Digital Interfaces and Designing Metadata Protocols with Photographic Archives in the Arab world	VIP	Haidar Safa	Arab Image foundation	Student 1	F	Junior	Social Science	Yemen
					Student 2	F	Senior	Computer Science	Syria
3	Enhancing Safety of Dairy Products with a Smart Temperature-Memory Label	VIP/Create-X	Pierre Karam	Dairy Khoury	Student 1	F	MS	Environmental Science	Lebanon
					Student 2	F	Senior	Chemistry	Lebanon
					Student 3	F	Senior	Chemistry	Lebanon
4	Recycled Carbon Fiber Composites for Sustainable 3D Printing	VIP	Mohammad Harb	Raedy Printing Group	Student 1	M	E4	Mechanical Engineering	Lebanon
					Student 2	M	E4	Mechanical Engineering	Lebanon
					Student 3	M	E3	Mechanical Engineeirng	Lebanon
5	Coworking Brand & Design Towards an inclusive service delivery process: supporting NGOs in the MENA region	VIP	Tania Haddad, Leila Kauli, Yasmeen Makarem	Kearney	Student 1	F	Junior	Political Science	Lebanon
					Student 2	F	Senior	Business Administration	Lebanon
					Student 3	F	Senior	Business Administration	Tunisia
6	Developing donepezil-loaded liposome nanoparticles for enhanced oral mucosal drug delivery	VIP	Rami Mhanna	Benta Trading	Student 1	F	MS	Public Health	Lebanon
					Student 2	M	Sophomore	Biology	Syria
7	Generative Design for Enhanced 3D MEP Modular Engineering & Construction (GD-MEP)	VIP	Hiam Khoury	Dar Al-Handasah (Shair & Partners)	Student 1	F	Junior	Architecture	Lebanon
					Student 2	M	Junior	Computer Science	Algeria
8	COFED: COrruption and Fraud Eradication	Create-X/VIP	Antoine Ghauch	System Expert	Student 1	M	Senior	Business Administration	Tunisia

Integration of **VIP** and Create-X at AUB

AY 2021-2022 – TLP Courses that were created in the first year of TLP Pilot

Course Number	Course Title	VIP or Create-X	Credits
TLPG 401V	Undergraduate Research Project	VIP	3
TLPG 401X	Technical Entrepreneurship	Create-X	3
TLPG 500	Approved Experience/ Internship	VIP or Create-X	0,1,2, or 3
TLPG 501	Capstone Project 1	VIP or Create-X	1,2, or 3
TLPG 502	Capstone Project 2	VIP or Create-X	1,2, 3, or 4
TLPG 601	Graduate Research Project	VIP or Create-X	3

Courses taken on a **petition**-base to **give credit** for work (TLP **1st Cohort**)

Integration of **VIP** and Create-X at AUB

Courses taken on a **petition**-base to **give credit** for work (TLP 1st Cohort)

Course	Cr	Faculty/Department Equivalent Courses								
		Faculty of Arts and Sciences FAS								
Course	Cr	Course	Cr	Faculty/Department Equivalent Courses						
				Faculty of Engineering MSFEA						
Course	Cr	Course	Cr	Course	Cr	Faculty/Department Equivalent Courses				
						School of Business OSB				
						ACCT	BUSS	DCSN	INFO	ENTM
TLPG 401-V	3									
TLPG 401-X	3									
TLPG 500	0-3	TLPG 401-V	3							
TLPG 501	3	TLPG 401-X	3							
TLPG 502	3	TLPG 500	0-1	TLPG 401-V	3					
TLPG 601	3	TLPG 501	1-3	TLPG 401-X	3					
		TLPG 502	3-4	TLPG 500	1		245			
		TLPG 601	3	TLPG 501	3		247			
				TLPG 502	3-4		247			

Tomorrow's Leaders College-t

T.E. is Technical Elective

Integration of VIP at AUB – 2nd Cohort

2nd Cohort of TLP Pilot – Permanent Integration in Engineering (MSFEA), Business (OSB), and Computer Science (CS)

1. B.S./B.E. Degrees in MSFEA

- Presented and Approved new TLP courses (presented in Administrative / Curriculum committees)
- Met with Departments to discuss course equivalencies/integration

2. B.S. in Business Administration (OSB)

- Met with OSB representatives and agreed on integration

3. B.S. in Computer Science (FAS)

- Met with CS Chair and agreed on integration

Integration of VIP and Create-X at AUB

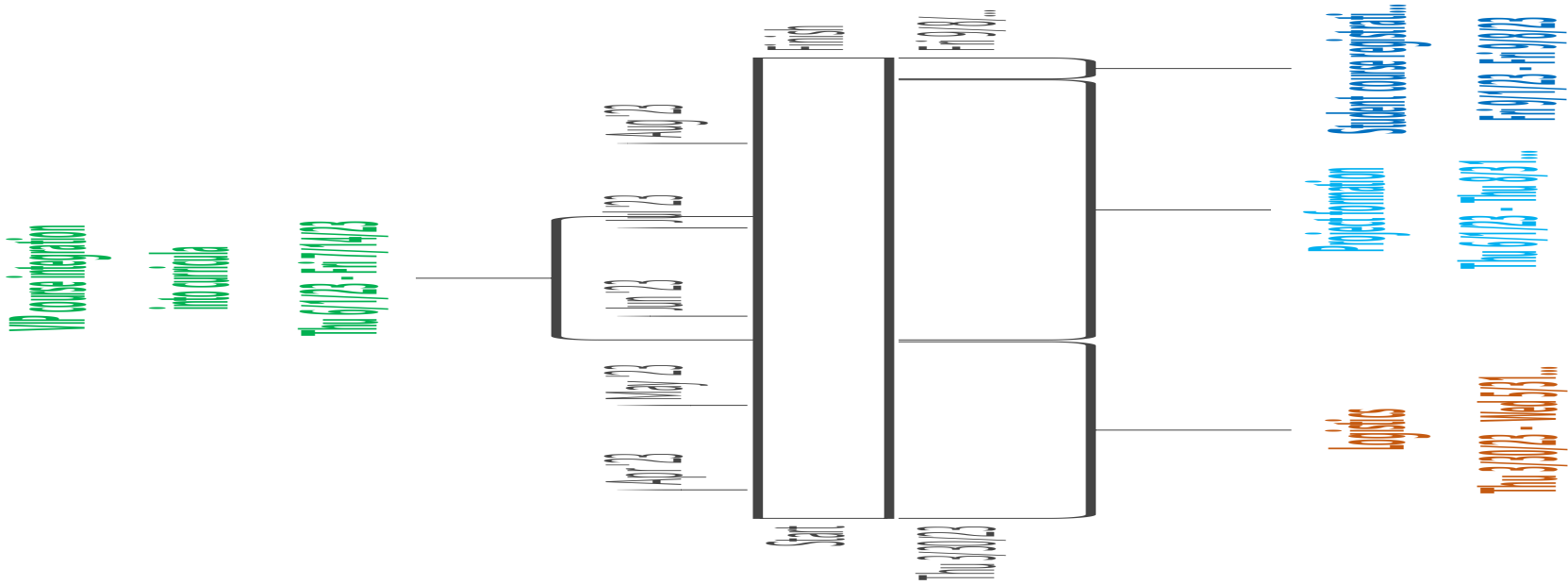
2022-2023 - New Courses Created and Approved in MSFEA

2022-2023 –New TLP Courses that were created during No-cost extension (in blue)

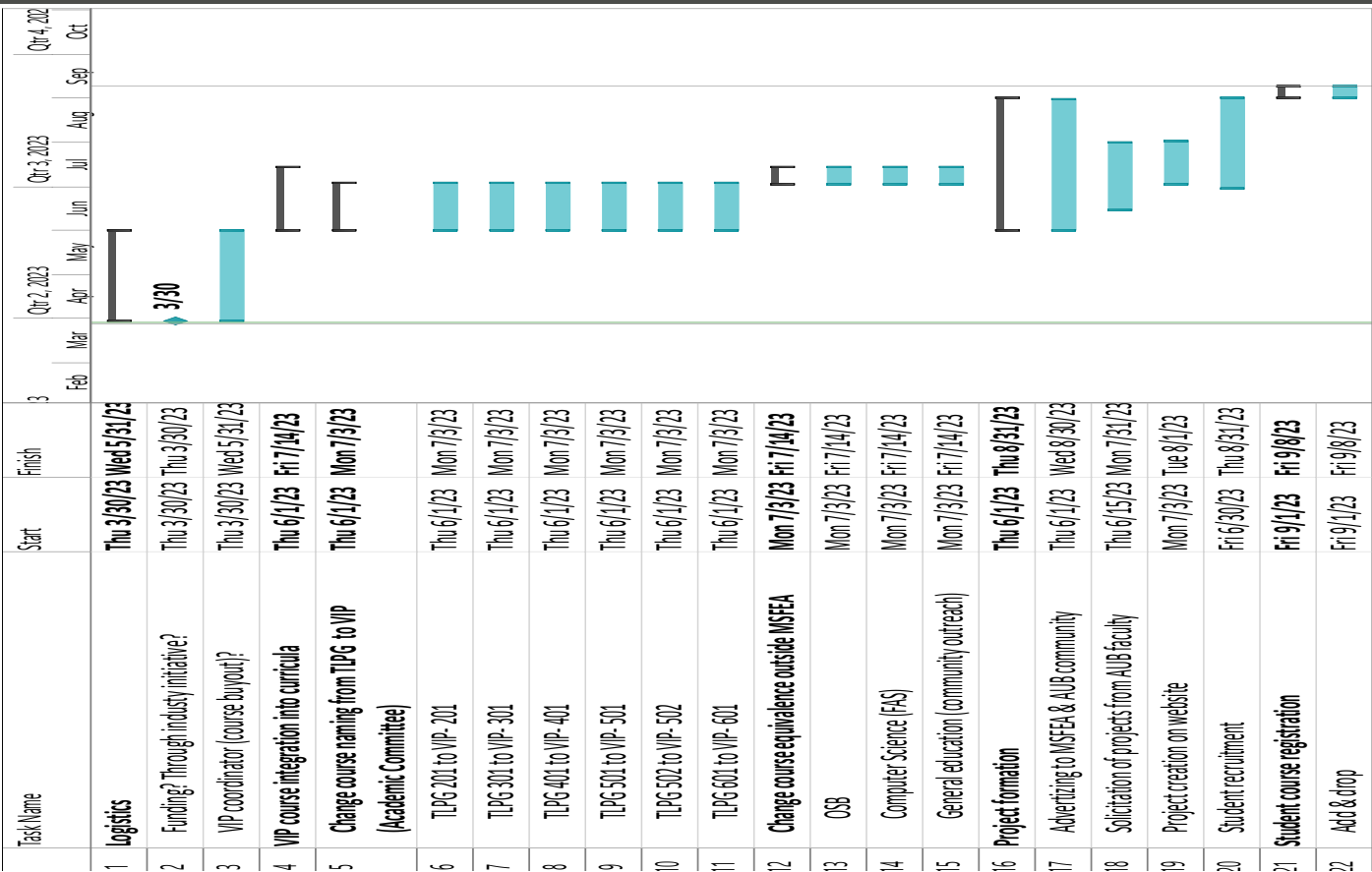
Course	Course Title	VIP or Create-X	Credits	Year
TLPG 101V	Undergraduate Research	VIP	1	1 st /Sophomore
TLPG 201V	Undergraduate Research	VIP	1	2 nd /Junior
TLPG 202V	Undergraduate Research	VIP	2	2 nd /Junior
TLPG 301V	Undergraduate Research	VIP	1	3 rd /Senior
TLPG 302V	Undergraduate Research	VIP	2	3 rd /Senior
TLPG 401V	Undergraduate Research	VIP	3	3 rd +
TLPG 401X	Technical Entrepreneurship	Create-X	3	3 rd +
TLPG 500	TLP Internship	VIP or Create-X	0,1,2, or 3	-
TLPG 501	Capstone Project 1	VIP or Create-X	1,2, or 3	4 th +/Senior
TLPG 502	Capstone Project 2	VIP or Create-X	1,2, or 3	4 th +/Senior
TLPG 601	Graduate Research	VIP or Create-X	3	Year 1
TLPG 602	Graduate Research	VIP or Create-X	3	Year 1 or 2

Integration of **VIP** beyond TLP

Plan for 2023 – 2024



Integration of **VIP** at AUB (2023-2024)



Pictures from Entrepreneurship Bootcamp (attended by VIP Students)



Tomorrow's Leaders College-to-Work Pipeline Pilot (TLP)



Pictures from Entrepreneurship Bootcamp (attended by VIP Students)



Tomorrow's Leaders College-to-Work Pipeline Pilot (TLP)

Pictures from Entrepreneurship Bootcamp (attended by VIP Students)



Pictures from Entrepreneurship Bootcamp (attended by VIP Students)





Thank You – VIP AUB