



Office of Information Technology Services

MEMORANDUM

To: Mr. Brian Cohen
Vice Chancellor and University Chief Information Officer

From: Asif Hussain
Assistant Vice President/Chief Information Officer

Re: Kingsborough 2020-2021 Student Technology Fee Plan

Date: Friday, April 30, 2021

Attached please find Kingsborough Community College's Student Technology Fee Plan for 2021-2022 as approved by the President's Advisory Committee. We believe it complies with the guidelines set for this process, and for the plan.

Please note due to enrollment decrease and subsequent decrease in tech fee receipts the committee had decided to change the refresh cycle for equipment from four years to five years, keeping in mind that there would be exceptions to this rule where instructional needs outweigh the refresh cycle.

In addition to changing the refresh cycle, the committee also decided to restrict the expansion of install base to as minimum as possible in lieu of putting a total freeze to maintain the maintenance cost and increase in cost for refresh of this equipment.

In view of increase burden of temporary wage increase due to salary adjustment, and additional shortfall in tech fee receipts we are reducing the personnel expenses by 10% reduce staff support will be compensated by increased dependency on self-service where possible.

In order to ascertain input from Students, a survey was conducted by Student Technology Fee planning Committee with approval from President. The survey reinforced the direction and initiatives that Technology plans of past years are what Students want to continue, a summary of the findings and actions originating from the survey is included with submission of the plan.

I would like to express my appreciation to the members of the committee for their thoughtful contributions.



Kingsborough Community College
Student Technology Fee Plan
2021-2022

April 2021

Kingsborough Community College
Student Technology Fee Plan
2021-2022

Overview:

Kingsborough Community College’s Student Technology Fee Plan for 2021-2022 was designed by the President’s Advisory Committee with input from faculty, students, and administrators and prioritizes the delivery of instruction via investments in student network infrastructure, desktop and mobile platforms, classroom and laboratory settings, innovative instructional pedagogies, assistive technologies, and related instructional supports.

The main objectives of this plan are in alignment with a major theme identified in the College’s Strategic Priorities, which considers technology as integrated into other functional priorities: Developmental education, academic programs, and student support.

Additionally, the areas identified in the Student Technology Fee Plan 2021-2022 reflect the vision of the College’s Information Technology Services Strategic Plan, which calls for efforts to “Expand the use of instructional technologies with continued investment in smart classrooms, tools such as lecture capture, and growth in mobile support for instruction.”

Committee Members: Please note six of the 13 members (45%) are students. Although well represented, we are still working to increase the proportion of committee members who are students. The current members with their titles and associations is listed below:

- Avery Mullen-Director of Academic Scheduling Committee-Vice Chair
- Marisa Joseph-Director, Center for Career Development & Experiential Learning
- Kathryn Giaimo-Manager of Corporate and Foundation Relations
- Asif Hussain – Committee Chair, Assistant Vice President and Chief Information Officer
- Professor Thomas Mintz –Department of Art
- Professor Paul Ricciardi– Department of Communications and Performing Arts
- Professor Loretta Taras – Department of Biological Sciences and Director of Kingsborough Center for e-Learning
- Michael De Martino Jr. **Student Representative**
- Alexia Christopher- **Student Representative**
- Chelsea Lliguichuzhca- **Student Representative**
- Shanda Watts- **Student Representative**
- Beth Rocco- **Student Representative**
- Malka Tomsy- **Student Representative**

[Budgets Template on pg. 16 \[ctrl-click here to jump to details\]](#)

1. [Augmentation / Maintenance of Networking Infrastructure](#)
2. [Assistive Technology Augmentation \(Residual\)](#)
3. [Kingsborough Mobile APP](#)
4. [Class Capture System and Online Video Depository](#)
5. [Computerization of Classrooms](#)
6. [E-Portfolio \(Digication\)](#)
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15. [Smart Classrooms and Labs](#)
16. [Technology Innovation](#)
17. [Upgrade – Expansion and Enhancement of Labs](#)
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19. [Video in Classrooms and Labs](#)
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TECHNOLOGY FEE- Projects 2021-2022

- **Augmentation of Networking and Infrastructure Project (Proj # 1)**
- As part of our continuous efforts to maintain 24x7 operations for network and infrastructure, we have to continue to replace and update the network and infrastructure.
- Project has sponsorship of college community faculty, staff and students
- Expenditure Category: Implementing or upgrading of instructional computer labs
- **The budget allocation for this project is \$ 40,000.**

- **Assistive Technology Augmentation (Proj # 2)**
- Otter.ai subscription for 50 users-\$9,800
 - Otter Voice Meeting Notes—live transcription note-taking—designed for universities. Currently KCC has multiple students who use CART/Typewell and Notetaking Services. These students usually register for 2 - 4 classes per semester, this requires a significant amount of resources and energy to accommodate. In an effort to promote independence and reduce students' reliance on services, but with the added benefit of cutting costs, Otter-Ai as a method for providing these students with the transcripts and speech to text access that they deserve. Additionally, with the expected continuation of online learning, it is important to ensure that videos created by faculty are accessible by including captions, with Otter Ai transcripts can be created while filming videos, saving faculty time and effort.
 - By the college purchasing Otter-Ai licenses to be loaned to students and faculty, this software will provide access to our students by providing transcripts for videos that do not have captions or are not posted on YouTube, like Blackboard Collaborate recordings. Student could also use the licenses to transcribe meetings they have with other people, or events they attend. This acquisition has the potential to transcend the classroom and improve the lives of many of our KCC students.
- Book Scanner with built in OCR software- Cost is \$5,200
- Additional equipment: eLifts for Labs and Class rooms-Cost 15,000
- **The budget allocation for this project is \$ 30,000**

- **Mobile Project (Proj # 3)**
- KCC APP is being around for 3 years now and we have added numerous additional modules to it we will continue to increase enrollment and additional modules to make access to information and resources for students.
- Expenditure Category: Acquiring technology tools to support college-sponsored student activities
- Project has sponsorship of college community faculty, staff and students
- **The total budget allocation for this is \$16,000.**

- **Class Capture System and Online Video Depository (Proj # 4)**
- Yuja system continues to gain increase usage from students after integration with Blackboard. The system is used to make available to student's videos and other information that cannot be stored on blackboard due to space limitation.

- Expenditure Category: Faculty development of new or improved courseware
- Project has sponsorship of college community faculty and students
- **Total Budget Allocation is \$27,000.**

Computerization of Classrooms Project (Proj # 5)

- Project Entails creating a Technology Evaluation Center, combing three rooms together to create a better and bigger work improvement. **Changing the capacity from 8 to 28 systems.**
- Following rooms are to be part of this project.

• <u>Room</u>	• <u>Existing Seats*</u>
• L-705 A, B, C	• 8

- Project has sponsorship of college community faculty, staff and students
- Category: Upgrading instructional spaces to support technology-assisted learning
- **Total Budget allocation is \$15,000.**

E-Portfolio (Digication) Project (Proj # 6)

- E-Portfolios are platforms for students, teachers, alumni, and professionals to display their work and ideas. They are archives of learning, discovery, progress, achievement and reflection. A few uses of E-Portfolios include assessment, admissions, interactive resumes, student galleries, teacher resource sites, collaborative project portfolios, and research presentations. KCC plans to use Digitation for 1,100 students and faculty.
- Expenditure Category: Faculty development of new or improved courseware
- Project has sponsorship of college community faculty, staff and students
- **Total Budget allocation is \$5,000.**

Instructional Software Upgrade Project (Proj #7)

- Upgrade Adobe software to the latest version in all labs.
- Upgrade Animation software to the latest version in MAC graphic labs.
- Upgrade AutoCAD software to the latest version in all Labs.

- Upgrade Tandberg software in Language Lab L-102G.
- Upgrade Virtualization software for academic servers.
- Upgrade Maritime Software.
- Upgrade NetOp Software in all labs.
- Upgrade Deepfreeze software in all labs.
- Upgrade of Examsoft Software
- Upgrade of Okta software
- Upgrade of React software
- ToonBoom harmony advanced
- ToonBoom storyboard
- Cinema 4D
- Upgrade of Bomgar Software
- Project has sponsorship of college community faculty, staff and students
- **Total budget allocation is \$85,000.**

- **Library Databases and eBooks (Proj # 8)**
- Procuring various titles for library databases as requested by Academic Services.
- Expenditure Category: Electronic information resources in the library
- Project has sponsorship of college community faculty, staff and students
- **Total budget allocation \$ 10,000.**

Respond Messaging (Proj #9)

- The project will entail ability to enhance two way communication between students, Advisors and other student centered offices
- Expenditure Category: Improving and implementing student services
- Project has sponsorship of college community faculty, staff and students
- **Total Budget allocation \$6,000**

.Print Management Solution (Pharos) Project (Proj # 10)

- Support for recently deployed pay-for-print system with support for workstation reservations to additional open labs. Expansion of remote printing from home and wireless stations. Expanding reservation facilities to other areas.

- Project has sponsorship of college community faculty, staff and students
- Expenditure Category: Implementing or upgrading student-serving computer labs
- **Total budget allocation \$ 7,000.**

Replacement of Computers in Labs (Proj # 11)

- We need to replace 628 computers in the labs based on 4-year refresh cycle. A decision was made by Tech Fee Committee unanimously to change the refresh cycle for Computers to 5 years, thereby reducing the number of computers to replace from 628 to 502, but due to budget shortfall we will only be replacing 177.
- Expenditure Category: Implementing or upgrading student-serving computer labs
- Project has sponsorship of college community faculty, staff and students
- **Total Budget allocation for this Project based on current pricing is \$ 184,000**
- The labs and computerized class destined to be replaced next year are as follows:

○ L-102G – 39 HP Z210’s-Out of Support
○ M-159 – 44 HP Z220’s-Out of Support
○ M-302 – 9 HP z220’s-Out of Support
○ L-516 – 8 HP Z220’s-Out of Support
○ T-4264 – 11 HP Z210’s-Out of Support
○ L-219S – 8 HP Z210’s + 1 HP Z220 = 9 total-Out of Support
○ F-206 – 25 HP Z220’s-Out of Support
○ M-118-32 Systems-out of support
○ Total Systems = 177

Replacement of Printers Project (Proj # 12)

- Replace three out of warranty network printers in labs.
- Expenditure Category: Implementing or upgrading student-serving computer labs
- Project has sponsorship of college community faculty, staff and students
- **Total budget allocation \$6,500.**

Replacement of Reservation System (Proj # 13)





- Current Reservation and login System works on students login to replace this system that uses readers and id-cards
- Expenditure Category: Implementing or upgrading student-serving computer labs
- Project has sponsorship of college community faculty, staff and students
- **Total budget allocation \$9,500.**


Replacement of Servers Project (Proj # 14)





- Replace one out of warranty servers supporting the labs. Also would allow for virtualization of blade servers and stand-alone servers. Addition of memory and processors to existing servers is part of the project.
- Project has sponsorship of college community faculty, staff and students
- Expenditure Category: Improving and implementing student services
- **Total budget allocation \$15,000**






Smart Class Room and Labs Project (Proj # 15)

- We will be replacing 15 out of warranty and end of life projection systems to avoid down time and switching of classes due to system outages.
- Project has sponsorship of college community faculty, staff and students
- Expenditure Category: Implementing or upgrading student-serving computer labs
- **Total budget allocation for including installation will be \$ 25,000.**

Current Projector Type	Image	Replacement Projector Type	Image
Boxlight X25/X28 No. on campus: 16		White Brightness 3,500 ANSI Lumens Color Brightness 3,500 Lumens CLO Resolution 1024x768 Aspect Ratio 4:3 (XGA) Video Modes 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i Lamp Life 5,000 hours / 10,000 hours (Eco) Included Lens Fixed focal length , manual focus Optional Lenses No Lens Shift No Throw Distance 1.2' - 2.0' Digital Zoom Yes Digital Keystone Horizontal & Vertical Internal Speakers 16.0 Watts Mono Connection Panel Audio In: Mini Jack x 3 Audio Out: Mini Jack Composite: RCA HDMI x 2 HDMI (MHL) Network: RJ-45 RS232: DB-9pin USB x 2 VGA In: Dsub-15pin x 2 VGA Out: Dsub-15pin	
3M DMS 800 No. on campus: 2			
3M SCP 716/725 No. on campus: 4			

<p>3M SCP 712 No. on campus: 3</p>		<p>Estimated Price: \$1,160.00</p>	
<p>Boxlight X35/X40 No. on campus:</p>		<p>White Brightness 4,000 ANSI Lumens Color Brightness 4,000 Lumens CLO Resolution 1280x800 Aspect Ratio 16:10 (WXGA) Video Modes 720p, 1080i, 1080p/60, 1080p/24, 1080p/30, 1080p/50, 576i, 576p, 480p, 480i Lamp Life 6,000 hrs/12,000 hrs (Eco) Lamp Model ELPLP96 Included Lens 1.2x manual zoom , manual focus Optional Lenses No Lens Shift No Throw Distance 3.6' - 29.4' Image Size 32.66" - 320.03" Digital Zoom Yes Digital Keystone Horizontal & Vertical Connection Panel Audio In: Mini Jack Audio In: RCA x 2 Audio Out: Mini Jack Composite: RCA HDMI HDMI (MHL) Network: RJ-45 RS232: DB-9pin USB x 2 VGA In: Dsub-15pin x 2 VGA Out: Dsub-15pin</p>	
<p>Boxlight Pro5000 No. on campus: 2</p>		<p>Estimated Price: \$749.00</p>	

<p>A-118 Ext. 4070</p>	<p>BoxLight Projector and Dry Erase Board (BoxLight BL X25NU Projector)</p>		<p>Dance Rehearsal Studio</p>	<p>PC Computer with Internet Access</p>
<p>C-112 Ext. 5534</p>	<p>BoxLight Projector with Pull Down Screen - 135 inches with DVD/VCR (BoxLight Seattle X35N Projector)</p>		<p>Lecture Hall</p>	<p>PC Computer with Internet Access, NOVA Desk</p>
<p>C-319 Ext. 4488</p>	<p>BoxLight Projector and Digital Board (BoxLight BL X25NU Projector)</p>		<p>Classroom</p>	<p>PC Computer with Internet Access, NOVA Standing Lectern</p>
<p>D-112 Ext. 4307</p>	<p>Epson Projector with Pull Down Screen - 96 inches (Epson Powerlite 2250U Projector)</p>		<p>Lecture Hall</p>	<p>PC Computer with Internet Access, NOVA Standing Lectern</p>

E-216 Ext. 4493	BoxLight Projector and Digital Board (BoxLight BL X25NU Projector)		Classroom	PC Computer with Internet Access, NOVA Standing Lectern
E-319 Ext. 4312	BoxLight Projector with Pull Down Screen -135 inches (BoxLight Seattle X35N Projector)		Lecture Hall/ Computer Lab	PC Computer with Internet Access, NOVA Standing Lectern
L-137 Ext. 5606	3M Projector and Digital Board (SCP 716 Projector)		Television Studio	PC Thin Client with Internet Access
L-218B Ext. 4026	BoxLight Projector with Dry Erase Board (BoxLight Seattle X35N Projector) [EXCEPTION: INSTALL EPSON POWERLITE 680]		Computer Lab	PC Computer with Internet Access, Nova Desk
L-516 Ext. 5520	3M Projector and Digital Board (SCP 725 Projector)		College Discovery Lab	Internet Access

Technology Innovation (Proj. # 16)

- A competition such as an Instructional Technology Innovation Awards Application. This would involve various offices and departments on campus who implement ideas that enhance instructional technology resources for students and faculty. The project should result in the improvement or continuation in the use of instructional technology and be sustainable.
- This software enables research on the articulatory properties of speech. We have already purchased an ultrasound system from the same company using funds from CRSP, but we did not have enough to actually cover the software. I am currently using a demo of the software that allows real-time visualization but no recording of the data and measurements are possible.
- Proposal Submitted by Prof. Spinu from Communication and Performing Art Department: Being able to record speech sounds and measure them would definitely make the content more appealing to students, and add a very useful dimension for the students transferring into Speech Pathology majors. Not least, they could also engage in research under my supervision (I have already mentored many students at KCC - 15 conference presentations authored by students last year alone!) and this would help diversify their research skills.-\$1,560
- Proposal Submitted by Prof. Shi from Communication and Pefroming Art Department. **Prezi EDU Plus** for educators, creation of lecture videos using **Prezi-\$500**
- Proposal Submitted by Prof. Mintz: Outdoor Charging solar powered tables using Sunbolt technology cost per station \$8,500.
- Expenditure Category: Expand student access to current and emerging technology

- Project has sponsorship of college community specifically students and faculty.
 - **Total Budget allocation \$25,000**
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- **Uplift-Expansion and Enhancement of Labs (Proj # 17)**
 - Project has sponsorship of college community faculty, staff and students
 - Expenditure Category: Implementing or upgrading student-serving computer labs
 - In order to facilitate opening of Open Lab with sneeze guards protections we proposed using some of these funds to procure and install such partitions in labs to allow some of our students to make use of this open Lab in fall with proper social distancing guidelines.
 - Additional rooms would be provisioned with contact less door access systems.
 - **Total budget allocation for this project \$10,000.**
 - **Tablets\Laptops for Students Project (Proj # 18)**
 - Replacement of out of warranty wireless laptops based on a four-year refresh cycle. As the use of tablets in instructional areas have increased and there is a cross section of Kingsborough students without such devices we will be replacing and adding systems that can be used both as tablets and Laptops. We plan on adding 100 such devices.
 - Expenditure Category: Improving and implementing student services
 - **Total Budget allocation \$60,000**
 - **Hybrid Instructional Spaces (Proj # 19)**
 - In order to meet need for Hybrid Instructions additional 30 rooms will have HD cameras and microphone installation to work with Blackboard Collaborate, Zoom, Microsoft Meetings or other video conferencing system...
 - Expenditure Category: Upgrading instructional spaces to support technology-assisted learning
 - **Total Budget allocation is \$45,000.**
 - **Virtual Desktop Initiative (Proj # 20)**
 - Currently we have about 275 VDI instance available for students, staff and faculty using VMware Horizon product to provide concurrent access to fashion design and various other Department students' use of software via tablets, laptop and handhelds. The additional 60 seat virtual lab would allow students who were lacking the ability to practice and use this software outside the Physical Lab. It also ameliorates the need for additional licenses for the open labs while allowing students to do homework assignments.
 - Expenditure Category: Expand student access to current and emerging technology
 - Project has sponsorship of college community faculty, staff and students
 - **Total Budget allocation is \$35,000**
 - **Wireless Expansion and Upgrade Project (Proj # 21)**

- We will continue the process of adding access points in classrooms and exterior areas to accommodate wireless use through thin clients and mobile devices. The project entails adding access points and upgrade/replacement of one controller.
 - Project has sponsorship of college community faculty, staff and students
 - Expenditure Category: Improving and implementing student services
 - **Total Budget Allocation \$ 20,000 for Access Points and controller and \$ 5,000 for installation**
 - **Total budget allocation: \$30,000**
-
- **Wireless Printing Project (Proj # 22)**
 - In the last fiscal year, we added 4 Wireless Printing Stations we plan on adding 2 more Wireless Printing stations do provide students to print from their mobile devices. This facility is available to everybody who is registered in the current term.
 - Project has sponsorship of college community faculty, staff and students
 - Expenditure Category: Improving and implementing student services
 - **Total Budget Allocation \$ 9,000**
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- **Computer Supplies (Project 23):**
 - This project entails sundry of items that are needed to run the operations in instructional labs, not limited to toner, replacement monitors, HD, keyboard mice, supplies for other projects.
 - Project has sponsorship of college community faculty, staff and students
 - Expenditure Category: Implementing or upgrading student-serving computer labs
 - **Total budget for items under this project 40,000**
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- **Equipment Maintenance (Project 24)**
 - **Project expenses include paying for the maintenance contracts of equipment needed to maintain instruction at the Campus.**
 - Project has sponsorship of college community faculty, staff and students
 - Expenditure Category: Implementing or upgrading student-serving computer labs
 - **Total budget for items under this project 250,000**
-
- **Online Training Tools (Project 25)**
 - As evident from the recent events there are lot of activities that used to happen in the Campus in person that need to be converted so they have Online presence. This project encompasses spend on multitude of tools identified by Faculty and students to help with instruction.
 - Project has sponsorship of college community faculty, staff and students

- Expenditure Category: Faculty development of new or improved courseware
- **Total budget for items under this project 30,000**

- **Strategic Technology Allocation (Projects to be executed at CUNY wide level) (Project 26)**
- Project has sponsorship of college community faculty, staff and students
- Expenditure Category: Purchase of Enterprise Solutions
- **Total budget for items under this project is 250,000**

- **Staffing (Project 27)**
- Expenditure Category: **Personnel for installation and maintenance of computer services**
- **Proposer: Faculty, Staff and Students**
- **Total budget for items under this project 600,000**

KINGSBOROUGH COMMUNITY COLLEGE 2021-2022 TECH FEE PROJECTS MASTER LIST

Project Number	Project Name	New (N) or Continuing (C) Project	Tech Fee Funds Devoted to Project	PS Cost	OTPS Cost	Expenditure Category	Proposer Category
1	Augmentation of Networking and Infrastructure Project (Proj # 1)	C	\$ 40,000		\$ 40,000	A	Faculty, Staff and Students
2	Assistive Technology Augmentation (Proj # 2)	C	\$ 30,000		\$ 30,000	B	Faculty, Staff and Students
3	KCC Mobile Project (Proj # 3)	C	\$ 16,000		\$ 16,000	I	Faculty, Staff and Students
4	Class Capture System and Online Video Depository (Proj # 4)	C	\$ 27,000		\$ 27,000	E	Faculty, Staff and Students
5	Computerization of Classrooms Project (Proj # 5)	C	\$ 15,000		\$ 15,000	H	Faculty, Staff and Students
6	E-Portfolio (Digication) Project (Proj # 6)	C	\$ 5,000		\$ 5,000	E	Faculty, Staff and Students
7	Instructional Software Upgrade Project (Proj #7)	C	\$ 85,000		\$ 85,000	A	Faculty, Staff and Students
8	Library Databases and eBooks (Proj # 8)	C	\$ 10,000		\$ 10,000	F	Faculty, Staff and Students
9	Respond Messaging (Proj #9)	C	\$ 6,000		\$ 6,000	D	Faculty, Staff and Students
10	Print Management Solution Pharos (Proj # 10)	C	\$ 7,000		\$ 7,000	C	Faculty, Staff and Students
11	Replacement of Computers in Labs (Proj # 11)	C	\$ 184,000		\$ 184,000	D	Faculty, Staff and Students
12	Replacement of Printers Project (Proj # 12)	C	\$ 6,500		\$ 6,500	C	Faculty, Staff and Students
14	Replacement of Servers Project (Proj # 14)	C	\$ 15,000		\$ 15,000	D	Faculty, Staff and Students
13	Replacement of Reservation System (Proj # 13)	N	\$ 9,500		\$ 9,500	D	Faculty, Staff and Students
15	Smart Class Room and Labs Project (Proj # 15)	C	\$ 25,000		\$ 25,000	C	Faculty, Staff and Students
16	Technology Innovation Submitted by students and Faculty members of committee(Proj. # 16)	N	\$ 25,000		\$ 25,000	J	Faculty, Staff and Students
17	Uplift-Expansion and Enhancement of Labs (Proj # 17)	C	\$ 10,000		\$ 10,000	C	Faculty, Staff and Students
18	Tablets-Laptops for Students Project (Proj # 18)	C	\$ 60,000		\$ 60,000	D	Faculty, Staff and Students
19	Hybrid Instructional Spaces (Proj # 19)	C	\$ 45,000		\$ 45,000	H	Faculty, Staff and Students
20	Virtual Desktop Initiative (Proj # 20)	C	\$ 35,000		\$ 35,000	J	Faculty, Staff and Students
21	Wireless Expansion and Upgrade Project (Proj # 21)	C	\$ 30,000		\$ 30,000	D	Faculty, Staff and Students
22	Wireless Printing Project (Proj # 22)	C	\$ 9,000		\$ 9,000	D	Faculty, Staff and Students
23	Computer Supplies (Project 23):	C	\$ 40,000		\$ 40,000	C	Faculty, Staff and Students
24	Equipment Maintenance (Project 24)	C	\$ 275,000		\$ 275,000	C	Faculty, Staff and Students
25	Online Training Tools (Project 25)	N	\$ 10,000		\$ 10,000	E	Faculty, Staff and Students
26	Strategic Technology Allocation (Projects to be executed at CUNY wide level)	C	\$ 250,000		\$ 250,000	K	Proposed by IT Steering
27	Staffing	C	\$ 600,000	\$600,000	\$ -	G	Faculty, Staff and Students
TOTAL			\$ 1,870,000	\$600,000	\$ 1,270,000		

	Description	Project Count by Expenditure Category					
A	Implementing or upgrading of instructional computer labs	2					
B	Acquiring or upgrading accessible technology	1					
C	Implementing or upgrading student-serving computer labs	5					
D	Improving and implementing student services	7					
E	Faculty development of new or improved courseware	3					
F	Electronic information resources in the library	1					
G	Personnel for installation and maintenance of computer services	1					
H	Upgrading instructional spaces to support technology-assisted learning	2					
I	Acquiring technology tools to support college-sponsored student activities	1					
J	Expand student access to current and emerging technology	2					
K	Purchase of Enterprise Solutions	1					

Category	Description	Action Items 1	Action Items 2	Action Items 3	Action Items 4	Action Items 5	Action Items 6	Change in Tech Fee Plan to Incorporate RFP from Students
A	Implementing or upgrading of instructional computer labs	Upgrade Lab PC's to increase reliability	Increase amount of time allocated to students in open labs.	Updating computer labs with the most up to date software	Add open labs/add capacity in open labs	Remote access to computers in a computer lab using, for example, TeamViewer or similar software to remotely access computers in a computer lab, because many of the Assignments in CIS courses require work in Windows OS, but not all students have it.	Make some computer labs only for remote work with access 24 hours or set the remote access time for example from 3pm to 10 pm.	Purchase additional Pharos Reservation licensing for Lab computers
B	Acquiring or upgrading accessible technology	Add eLift desks in Class rooms\Labs	Update accessibility for delivery (audio/Visual)	Providing the ability for students with hearing and eye accommodations to type on the computer	Ensure pc's are sanitized (pocket clorox wipes for students)/partition pc's/socially distance	Add remote printing stations	Additional Computers for students for special needs	<ol style="list-style-type: none"> 1. Increase spend on Assistive technology. 2. Work with Accessibility office to make available resources that are available via CUNY CATS Program. 3. Add software and hardware to help students with special needs
C	Implementing or upgrading student-serving computer labs	Enable Remote access to Lab Computers	Increase access to internet, provide additional hot spots	Enable Wireless printing in Labs	Increase reliability of printing\copying resources	More remote printing / copying stations		<ol style="list-style-type: none"> 1. Purchase additional hotspots 2. Increasing remote print stations would require us to procure additional Pharos licenses

D	Improving and implementing student services	Zoom Study Groups with class mates	Increase distribution of Laptops, hot spots	Add guided virtual labs for science classes	Increase Windows/MAC Laptops Lending	Makerspace "A makerspace is a destination where students-sometimes alongside staff, parents, and mentors-can create, problem solve, and develop skills, talents, thinking, and mental rigor."	Headphones for students	<ol style="list-style-type: none"> 1. Update kbcc app 2. more windows laptops for loan, 3. hotspots from another carrier
H	Upgrading instructional spaces to support technology-assisted learning	Enhanced Instruction by adding Cameras, Microphones	Have headsets available for students	Access to the specialized software that is in the classes		Counseling for students who feel in person will put them at risk		<ol style="list-style-type: none"> 1. Increase spend on Enhancement of Instruction Space to add 2. additional high res camera, 3. microphones, headset availability
I	Acquiring technology tools to support college-sponsored student activities	Install more charging devices for students.	Add Toshiba digital board	Enhance KCC APP	Online textbooks	Sterilization units for cell phones		<ol style="list-style-type: none"> 1. As it relates to more student engagement, this can be delivered via Inside One of the things that we can to do is to deploy personas to Inside. 2. Deploy KCC APP with web Portal as student engagement tool 3. Increase spend on Online Text books 4. Install more charging stations for students.
J	Expand student access to current and emerging technology	Strengthen VDI	Add Laptop Vending Machines	Additional computers, headsets, tablets				<ol style="list-style-type: none"> 1. This is where signup could help. and as we know not all software can run via citrix or vdi. Working with academic scheduling when a computer class is not available the computers can be made available remotely. How that would work is a professor that is remote would have the option to select a computer class that is available between 8am and 9pm. M224 is not used between 12:00 and 1:10, Monday and Wednesday. The professor could reserve that time as remote lab time. 2. Another way that could work is that when classes are over these computers can be made available off hours for students to use, again by reserving via signup. We currently have 160 seats and to do this at scale would require a massive expansion in our licenses but reduce the pressure on citrix, vdi and address the access issues.