**Affordable Learning Georgia Affordable Materials Grants  
Continuous Improvement Grants Final Report**

*(or Mini-Grants, for R17 and earlier)*

# General Information

Date: 12/31/2022

Grant Round: 20

Grant Number: M178

Institution Name(s): Kennesaw State University

Team Members (Name, Title, Department, Institutions if different, and email address for each):

|  |  |  |
| --- | --- | --- |
| Team member | Name | Email address |
| Team member 1 | Lei Li | Lli13@kennesaw.edu |
| Team member 2 | Rebecca Rutherfoord | brutherf@kennesaw.edu |
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| Team member 6 | Darin Marrow | dmorro21@kennesaw.edu |
| Team member 7 | Garima Banerjee | gbanerje@kennesaw.edu |

Note: Dr. Rebecca Rutherfoord retired from Kennesaw State University on June 30, 2022. Dr. Lei Li took over Dr. Rutheroord’s tasks in this grant.

Project Lead: Lei Li

Course Name(s) and Course Numbers:

IT 5433: Database: Design and Applications

IT 7103: Practical Data Analytics

IT 7923: Advanced Web Technologies

IT 4423: Unix/Linux

Final Semester of Project: Fall 2022

***If applicable to your project:***

Average Number of Students Per Course Section:

Number of Course Sections Affected by Implementation of Revised Resources:

Total Number of Students Affected by Implementation of Revised Resources:

# Project Narrative

*Describe the course of your revision or ancillary creation project, including*

* *A summary of your project’s purpose, plan, and timeline.*
* *The original works which were revised or added to, with links. For example, if you revised an open textbook, give the title, author, and link.*
* *A narrative description of how the project’s plan was carried out.*
* *Lessons learned, including anything you would do differently next time.*

As part of Department of Information Technology ALG strategic plan, we propose to revise the OER material used in two IT courses in this project: IT 5433 and IT 7103 which were developed in round 12 and round 13 respectively. While our faculty have been making incremental changes to those courses over the years, it is time for a systematic revision. In addition, we propose to update the OER material for two other courses: IT 4423 and IT 7923. While those two courses did not go through previous ALG grants, OER material have already been adopted.

The project started in January 2022 and completed in December 2022. The OER material in the proposed courses were revised according to the timeline laid out in our proposal. The newly developed course material was implemented in the classroom and students’ feedback was collected. As shown in the table below. Majority of students liked content of the material and the way they are organized. Moreover, students were overwhelmingly hold positive attitude towards the OER material over paid textbook. In summary, our project has been successfully implemented.

In term of lessons learned, we believe that it’s very important to have a department-wide and coordinated efforts in developing OER material for our courses.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | IT 4423 | | IT 5433 | | IT 7103 | | IT 7923 | |
| Question | Strongly agree | Agree | Strongly agree | Agree | Strongly agree | Agree | Strongly agree | Agree |
| In general, the learning modules were organized | 100% | 0% | 41% | 45% | 77% | 19% | 100% | 0% |
| The content, links and other leaning module materials were sufficient to help me learn. | 100% | 0% | 41% | 41% | 69% | 23% | 100% | 0% |
| I prefer using selected open source/free learning materials rather than a paid textbook for this course. | 100% | 0% | 45% | 36% | 65% | 8% | 50% | 50% |
| Overall, compared to a potential paid textbook, open resource learning materials provided the necessary assistance to learn the material. | 100% | 0% | 45% | 14% | 65% | 15% | 100% | 0% |

# Materials Description

*Describe all the materials you have created or revised as part of this project. These descriptions may be used in the* [OpenALG](https://alg.manifoldapp.org/) *repository description field. Include the* [*open license your materials will be shared under*](https://creativecommons.org/share-your-work/)*—for most materials, this will be an Attribution 4.0 License (CC BY) as required in the Grants Request for Proposals.*

All the material involved in grant is under Attribution 4.0 license.

# Materials Links

*If you are hosting your materials in places other than OpenALG, please provide these links in this section. Otherwise, leave blank. Note: we cannot access D2L or Canvas links.*

IT 4423: <https://facultyweb.kennesaw.edu/lli13/alg/CYBR_4423_Linux.zip>

IT 5433: [https://facultyweb.kennesaw.edu/xtian2/D2LExport\_2572343\_IT5433DatabasesDesignApplicationsRevision2022\_20231205.zip](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Ffacultyweb.kennesaw.edu%2Fxtian2%2FD2LExport_2572343_IT5433DatabasesDesignApplicationsRevision2022_20231205.zip&data=05%7C01%7Clli13%40kennesaw.edu%7C673d684e96b0432a700708daec870585%7C45f26ee5f134439ebc93e6c7e33d61c2%7C1%7C0%7C638082361899093278%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=noNBuYmX%2FCIMARLs6UMvBgnm7%2BM7wVzGfXXziQZzTMg%3D&reserved=0)

IT 7103: [https://facultyweb.kennesaw.edu/lle13/IT7103%20Materials.zip](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Ffacultyweb.kennesaw.edu%2Flle13%2FIT7103%2520Materials.zip&data=05%7C01%7Clli13%40kennesaw.edu%7Cd4ba5982462241b284aa08daece779eb%7C45f26ee5f134439ebc93e6c7e33d61c2%7C1%7C0%7C638082776192781078%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=VrUNbSna182TmWXSZ5nDfdTP9SXvDV9xAkgxhywP%2FyE%3D&reserved=0)

IT 7923: <https://facultyweb.kennesaw.edu/zli8/it7923.php>

# Future Plans

* *Describe any planned or actual papers, presentations, publications, or other professional activities that you expect to produce that reflect your work on this project.*
* *Describe any plans to revise or add to these materials in the future.*

We have published several papers and conducted several workshops on our Affordable Learning Georgia efforts in our previous grant. We have no plan to publish paper for this round. The department of Information Technology has involved in the USG’s Affordable Learning Georgia initiatives since round 1. Both our undergraduate programs (BSIT and BASIT) and graduate program (MSIT) are Zero-textbook-cost degrees (Z-degrees). A department-wide strategy has been developed and implemented to gradually update the content of the courses in our programs. We will build on past successes and continue participating in future ALG endeavors.