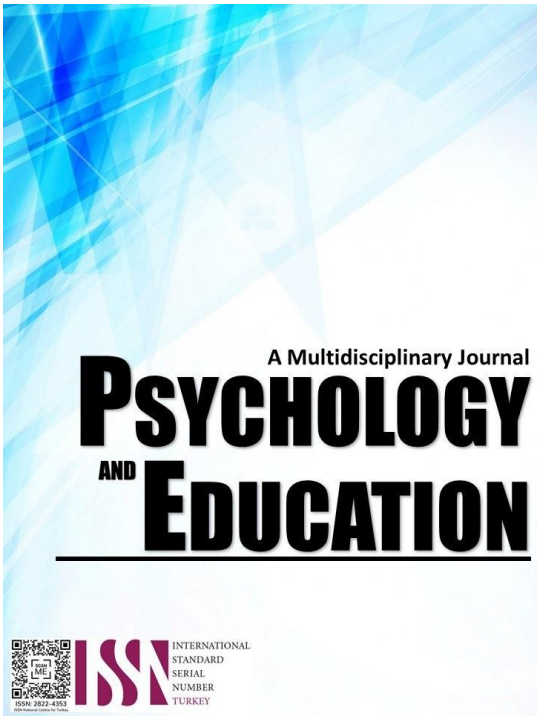
DO UP CEILING SYSTEM FOR THE VIEWING ROOM, CEBU TECHNOLOGICAL UNIVERSITY, MAIN CAMPUS, CEBU CITY



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Research Article

Do Up Ceiling System for the Viewing Room, Cebu Technological University, Main Campus, Cebu City

Jouana B. Lastimosa,* Bianca Paula G. Fernandez, Quisa Nobe R. Rebamonte, Dawn Valerie A. Niere, Sheryl E. Cabardo, Melchie B. Jaca

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Abstract

This study aims to improve the learning environment of a university viewing room by rehabilitating and refurbishing its ceiling, highlighting the critical role of infrastructure in education. The project is driven by the recognition that a well-maintained ceiling is essential for students' physiological well-being, eyesight health, safety, and comfort. Research indicates that poor air circulation in congested spaces with low ceilings can exacerbate the spread of airborne diseases, while inadequate ceiling illumination can harm visual health. Furthermore, exposed electric wires and an aesthetically unpleasing environment can distract students, negatively impacting their focus and learning outcomes. Upon approval, the project will proceed with planning, designing, and estimating, followed by the procurement of construction materials based on competitive bidding. All supplies will undergo thorough quality inspections. By addressing the structural inadequacies of the viewing room ceiling, this study aims to foster a safer and more conducive learning atmosphere, ultimately enhancing literacy outcomes and nurturing students' overall well-being. The findings of this project will underscore the significant impact of proper infrastructure on educational experiences, offering insights to the administration on the importance of maintaining high standards in school facilities.

Keywords: *ceiling system, viewing room, school facilities*

Introduction

Across the history of Philippine education, it has always been observed how Filipinos strived to be educated. For Filipinos, education has always been believed to be the key to financial security and consequently brings prestige to the student and the family. This high regard to education is very evident in Filipinos' grand celebration in every graduation.

Along with the above observations, the school facilities had received also considerable attention from public as well as from the educators. Educators are faced today with a growing challenge of maintaining the nation's education facilities. The improvement of the public schools could be costly. McGowen (2007) reported that the most single expense and most enduring transaction made by school officials were the school facilities. It is then said that the evaluation of school facilities, along with reform movements, allowed educators and planners to align academic initiatives with tangible factors of the school buildings.

Of the spectrum of factors that may affect learning, one important material for consideration is the immediate physical learning environment improvement. It is said to be "another teacher" because it informs and engages the child in the learning process. Similar to the teacher, the physical learning environment can motivate the learners. The motivation of learners happen when the environment exudes an interesting atmosphere through its organized physical set up tailored to the purpose of the learning objective and the acquisition of learning facilities that the learner can actively manipulate or engage in the course of gaining knowledge.

A concrete example of how a physical learning environment in school can influence the learner is the maintenance of a functional viewing room. To describe such environment, a viewing room is supposed to be an atmosphere where it can set the learner's mood for learning with convenient facilities for demonstration of ideas, enhancement of skills and literacy while maintaining the same solemn atmosphere for learning. Thus, every detail of a viewing room including its physical design should be well articulated to rouse interest of the learners to pursue knowledge.

In the method of articulating every pertinent physical part of a viewing room the project intends to emphasize on the ceiling. It aims to present and actualize the relevance of the ceiling in facilitating learning. Actualization of the project will be based on the following purposes, studies and standards of an ideal ceiling to facilitate learning.

Ceiling regulates room temperature. Considering that Philippines is located in the tropics, heat and humidity will be the factors that will most likely to affect students' concentration. Through installing a calculated ceiling height appropriate for the room function and capacity as well as installing insulation to ceiling, issues related to attention of students will be minimized. As stipulated under the Republic Act no. 6541 which is the National Building Code of the Philippines under Section 5.01.05 states that for building more than one story, the minimum ceiling height of the first story shall be 2.70 meters (9 feet) and 2.40 meters (8 feet) for the second story, and succeeding stories (www.chanrobles .com/ republicno6541.htm#.U4gxAPmSxqU)

Ceiling affects the learner's perception. The conceptualization of ideas may be dependent on space being projected by the ceiling. The brain tends to focus on details in lower-ceiling condition whereas, in an elevated ceiling, people tend to come up with abstract ideas. This is so because higher ceiling tends to encourage people to think more freely, which may lead them to make more abstract connections. On the hand, the sense of confinement can be prompted by low ceilings that it will most likely inspire a more detailed,

statistical outlook which might be preferable under some circumstances (Meyer-Levy 2007).

Ceiling design defines and establishes the purpose of the place. Definition and purpose of a ceiling may be characterized through its design or added features. To a cite, a ceiling of an audio room may be designed with acoustic panels to rid of unwanted sound, whereas, a laboratory ceiling may be designed plainly with only a few security features to avoid further disturbance and encourage the learners to focus on performing laboratory work at hand.

Ceiling affects the psychological well-being of learners. In the study of Bivins (2009), it reveals that homes with higher ceilings induce clearer and improved thinking and more energy among residents. This is so, because ceilings can make a dramatic visual impact on any space. When this is applied to a school setting, a viewing room ceiling can serve as a mood primer to create a learning induced environment that sets focus and mood of the learner. Thus in effect, the teacher may not consume much of the time in motivating the learner. Further, learning task will be accomplished smoothly with learners who are enthusiastic and mind-set that are ready for scholastic undertaking.

Ceiling affects physiological well-being of learners. Airborne diseases are likely to spread at congested places (wipo.int/research/en/about/neglected _tropical_deseases.html) especially when the ceiling is too low to accommodate the room capacity. Ceiling illumination in a viewing room is also necessary to address eyesight health issues (aoa.or/optometrist/tools-and-resources/clinical-care-publications). The school has the responsibility to preserve students' eyesight as this sense plays a crucial role in learning and in the students' day to day living.

The Viewing room ceiling is essential for safety and aesthetic presentation. A viewing room without a ceiling is hazardous. When electric wires are visible this will be inviting the less enthusiastic learners to divert their attention and may be tempted to play with it. Further, aesthetic value of the viewing room may be depreciated with the seemingly skeletal appearance seen over their heads. Learners prefer learning atmosphere that is safe and comfortable (Bar 2009). Otherwise, in the absence of may contribute to inattention thus deterring learning.

Given the pros on the importance of a ceiling, it is a fact that ceilings of the viewing room this University needs to be repaired. It is then the aim of this study to contribute to the improvement of learning by and rehabilitating and refurbishing viewing room of the university for the sake of the students.

It is also the hope of this project to present to the administration the extent of the impact of ceiling to learning. Presentation will be based from the importance and standard of a ceiling.

Consolidated characteristics on how a ceiling defines its purpose in relation to learning will also be applied in rehabilitating and refurbishing the viewing room ceiling. Implementation of this project hopes to gain an improved literacy outcome, and well-nurtured students.

Hence, this project-study is hereby conducted.

Project Flow

This project study conceptualization and identification activity will be done in coordination and consultation with the Campus Director, Dean of the College of Education, Project Adviser, Director of Ancillary Services, Cebu Technological University Main Campus to formalize the intention.

When the project study proposal will be organized, a letter of intent will be prepared and be submitted to the office of the University President for his approval.

When the project study proposal will be given the favorable consideration of the University President, the planning, designing estimating of the project study will be prepared with the assistance and expertise of the project adviser and the Director of Ancillary Services follows.

When all the components of the project study proposal will be organized, it will be presented to the Project Study Implementation Committee for their approval. Their suggestions and recommendations during the design/proposal hearing will be taken into consideration and will form part of the final manuscript.

In pre-implementation phase of the project study, the following activities of the project will be undertaken, namely: the preparation and canvassing of the ceiling and other construction supplies and materials and actual visits to some construction retail stores to validate price quotations; Price quotations will be studied, analyzed and scrutinized before the materials will be purchased

When the project implementers will be able to determine a good and favorable advantage of the bid, the purchased order will be awarded to the bidder with least-cost quotations without foregoing the quality of the supplies and materials.

All ceiling and other construction supplies and materials that will be purchased and delivered will be subjected to quality review, checking, inspection and appraisal by the Project Implementers, Project Adviser and Director of the Ancillary Services on site.

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Research Article

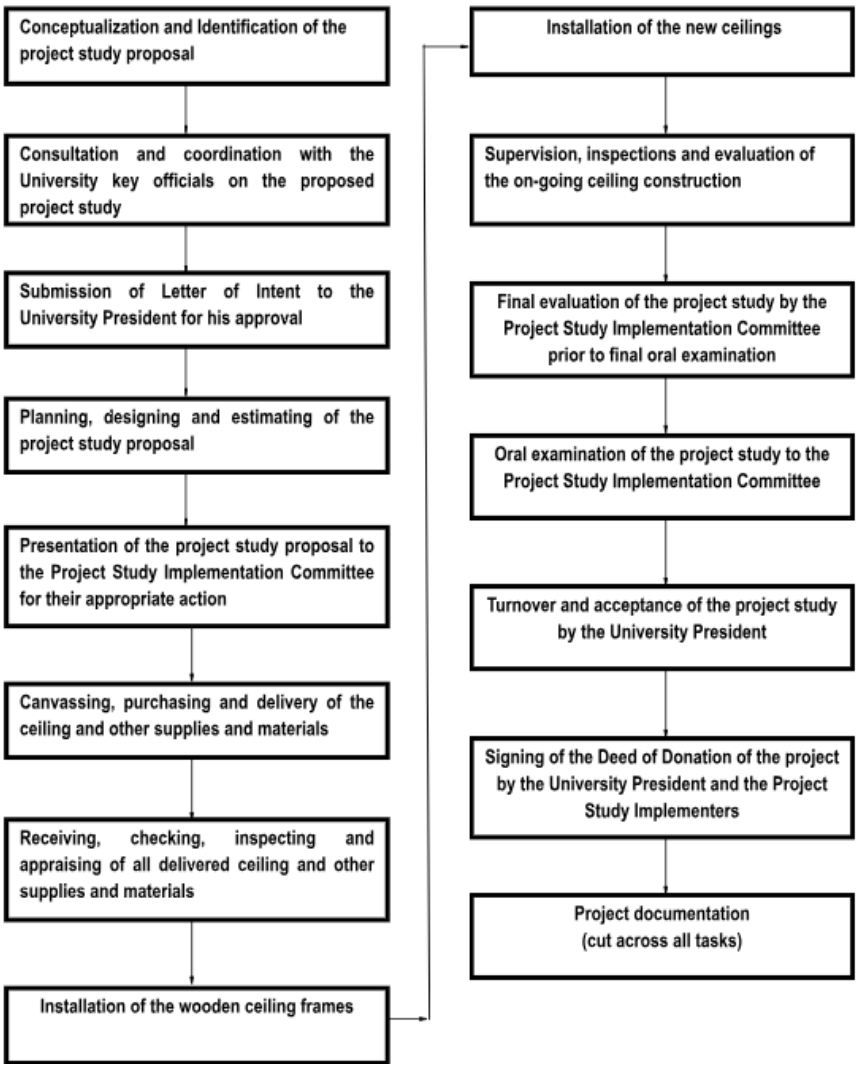

Figure 1. *The Project Flow*

When all ceiling and other construction supplies and material will be available, the project implementers will begin their work.

Firstly, the installation of the wooden ceiling frames. When the installation of the wooden ceiling frames will be done, the installation of the hardiflex board as ceiling will follow.

The supervision and monitoring of the project during the construction period will be done by the project implementers together with the Project Adviser and the Director of the Ancillary Services.

When the project study will be finally completed or finished, the project study will be presented to Project Study Implementation Committee for the final evaluation of the project study and in the same manner, the final manuscript of the project study will be reproduced and will be submitted to the College of Education office to be distributed among the different members of the Committee on Project Implementation for oral examination.

The final manuscript of the project study will be reproduced and will be submitted to the College of Education office to be distributed among the different members of the Committee on Project Implementation for oral examination.

During the oral examination, the observations and recommendations of the Project Study Implementation Committee will be sustained and incorporated in the final manuscript for the betterment of the project study.

In the final phase, the Project Study Implementers, together with the Project Adviser will formally turn-over the project to the University President, the Campus Director and the Dean of College of Education. The signing of the Deed of Donation will be executed by both parties. The rest of the members of the Project Implementation Committee will witness the turn-over and acceptance of the project.

The project documentation activities will envelop all tasks of the project study implementation. This activity will be done by the Project study Implementers throughout the duration of the project implementation.

The Project

Statement of the Project

This project study intends to rehabilitate and refurbish the ceiling system of the Viewing Room of the Cebu Technological University, Main Campus, Cebu City."

Importance of the project

The project is conceived to rehabilitate and refurbish the dilapidated ceiling of a viewing room in order to provide safety, sufficient ventilation, stimulates critical thinking and active participation from the learners which will result to optimum learning.

Specifically, the project is of great help to the following:

The Cebu Technological University. The provision of this project would helped in the university's continuous aim for academic excellence as projected in the school's vision and materialized by means of affiliating with accrediting organizations in both national and international groups. By rehabilitating and refurbishing the dilapidated ceiling, the physical learning environment would be improved and marked a significant credit in the accreditation's criteria on physical plant and instruction. Further, it is expected that passing the standard for these accrediting groups has boosted the school's reputation and therefore in effect boosted the school's return of investment by means of an increased in enrolment rate.

The College of Education. This project will benefit the COED as this will add to their existing learning facility for the early childhood education students Further, the provision of such equipment to the University would also showcase a better and comfortable learning environment for the students in doing research and written works, colloquial gatherings, conferences and other group gatherings.

The Early Childhood Education Professors. The Viewing Room once rehabilitated and refurbished would provide a very comfortable, conducive and likable teaching environment for Early Childhood Education teachers. The provision of this facility would be endowed with good indoor quality thus contribute to a favorable learning environment for students and teachers, productivity and a sense of comfort, health and well-being for all school occupants.

The students in the Early Childhood Education Program. The project provided an ideal learning environment to students through improved classroom condition that enhanced learning mood and elaborated learning space. Further, this project also eliminated external variables that may deter learning. Amongst the identified variables were safety, perception, motivation and standard ceiling height. The realization of this project intensified the school's vision of producing quality graduates that were research oriented, technologically literate and socially aware. This project would also be intended to the students in the University that they may have very conducive, relaxing and soothing classrooms where they can hold their classes, conduct demonstration teaching and the like without the interference of any environmental factors that get in their way of obtaining a better learning.

The Community. The Viewing Room would likely give them some insights on the significance, relevance and contributions of physical facility in the acquisition of learning for their children. Following the dictum in philosophy that "there is nothing in the mind that was not first in the senses," hence, it could be deduced that with young learners especially, the preferred approach is the concrete objects and situations to illustrate ideas and concepts. With that philosophy, these would enlighten our students taking early childhood education the necessity of this facility in their learning and possibly in their teaching.

The Project Implementers. This project would be valuable to the project implementers for it would one way or another; make them share their piece of good fortunes to the betterment of learning facility for the populace which the University is serving. This would further enhance the project implementers' understanding the necessity, relevance, and importance of this facility to the University

In the same manner, the following personalities would also benefit from the project, namely:

1. Teachers, staff, and Students,
2. University's Alumni, and
3. Other people who desire to use the facility

Scope of the Project

The rehabilitation and refurbishing of the viewing room of the Cebu Technological University, Main Campus, Cebu City will be scope of the works.

Ceiling Works

Repair and restoration of the ceiling of the viewing room of the Cebu Technological University, Main Campus.

The Project Implementation Scheme

Project Title

DO UP CEILING SYSTEM FOR THE VIEWING ROOM, CEBU TECHNOLOGICAL UNIVERSITY, MAIN CAMPUS, CEBU

CITY

Project Proponents

Ms. Bianca Paula G. Fernandez

Ms. Quisa Nobe R. Rebamonte

Ms. Dawn Valerie A. Niere

Ms. Jouana B. Lastimosa

Ms. Sheryl E. Cabardo

Ms. Melchie B. Jaca

Project Location

The project study will be established at the Viewing Room of the Cebu Technological University, Main Campus, Cebu City located at the 4th floor of the Administration Building

Project Duration

The conceptualization of the project study began last June 2014 when the Project Study Implementation Course was enrolled in partial fulfilment of the requirements of the course, Master in Education major in Early Childhood Education.

However, the project preliminary activities, like, preparation of the working project plan and estimates will be undertaken in the month of August 2014 and construction phase will begin on the month of September 2014. And such, will be finished and completed in the first week of October 2014

All these activities with the corresponding details – duration, persons involved, and materials needed are presented in the Work Breakdown Structure, Resource Assignment Matrix and Gantt Chart.

The Viewing Room

Project Technical Descriptions and Specifications

Project Title: DO UP CEILING SYSTEM FOR THE VIEWING ROOM OF THE CEBU TECHNOLOGICAL UNIVERSITY, MAIN CAMPUS, CEBU CITY

Location: 4/F COED, CTU MC, M.J. Cuenco Avenue, Cebu City

Department: College of Education

Subject : SCOPE OF WORKS AND ESTIMATING BILL OF MATERIALS

Technical Specifications

General Conditions

The Director for the Ancillary Services of the CTU and/or his authorized representative and the project Implementers will do the regular inspection of all works hereinafter as described and stipulated in the project plan; the CTU Planning and Ancillary Services furnished all manpower necessary for the construction and completion of the project.

The Project Implementers will comply with the latest National Building Code as well as other requirements as set by the Code.

This specification will be intended to cooperate with the plans so that anything herein mentioned but not shown or indicated on the attached set of drawings / plans or vice versa will be considered having like effects as if shown or mentioned in both. In case of discrepancies in figures or in drawings, the same was immediately referred before the Project Implementers who made the necessary adjustment.

The Director for the Ancillary Services of the CTU and/or his authorized representative appraised workmanship or performance of the construction workers.

Installation of Wooden Ceiling Frames and Ceiling Boards

Procurement of all materials was specified in the bill of project materials and quantity presented.

Installation of Wooden Ceiling Frames and Ceiling Boards were in accordance with the plan and specification provided by and specified by the Architect/Engineer.

Ceiling materials was in accordance with the bill of materials and subjected to the approval of the Architect/Engineer.

Installation of wooden ceiling joist and ceiling panels were coordinated and approved by the Architect/Engineer.

Schedule of Materials and Finishes

General Intention and Application

This Schedule of Materials and Finishes will be presented and defined the specific materials that will be used in the different parts of the project, and incorporated into the construction of the project.

This Schedule of Materials and Finishes, and Plans and Specifications will be intended to complement each other; what is called for by one provided by the Project Implementers as if called for by both.

For the location of materials and finishes refer to the plans.

Materials and Workmanship

The quality of materials will be the best of their respective kinds for the intended purpose. The CTU Planning and Ancillary Services will do all works in the best and most acceptable manner and in strict accordance with the requirement of the Plans.

Samples of all finishing materials, including manufacturer's certificates, will be submitted by the CTU Planning and Ancillary Services for the approval prior to their purchase, installation or incorporation into the construction. Such required samples will be properly marked for identification. Materials that will be installed or used without such approval will be rejected.

Where specific manufacturer or product is mentioned in this Schedule, products of other manufacturers will be accepted if made for the specific purpose required, subject to the approval of the Director for the Ancillary Services of the CTU and/or his authorized representative

Project Technical Design/Plan

Hereunder is the reflected ceiling plan design of the COED Viewing Room

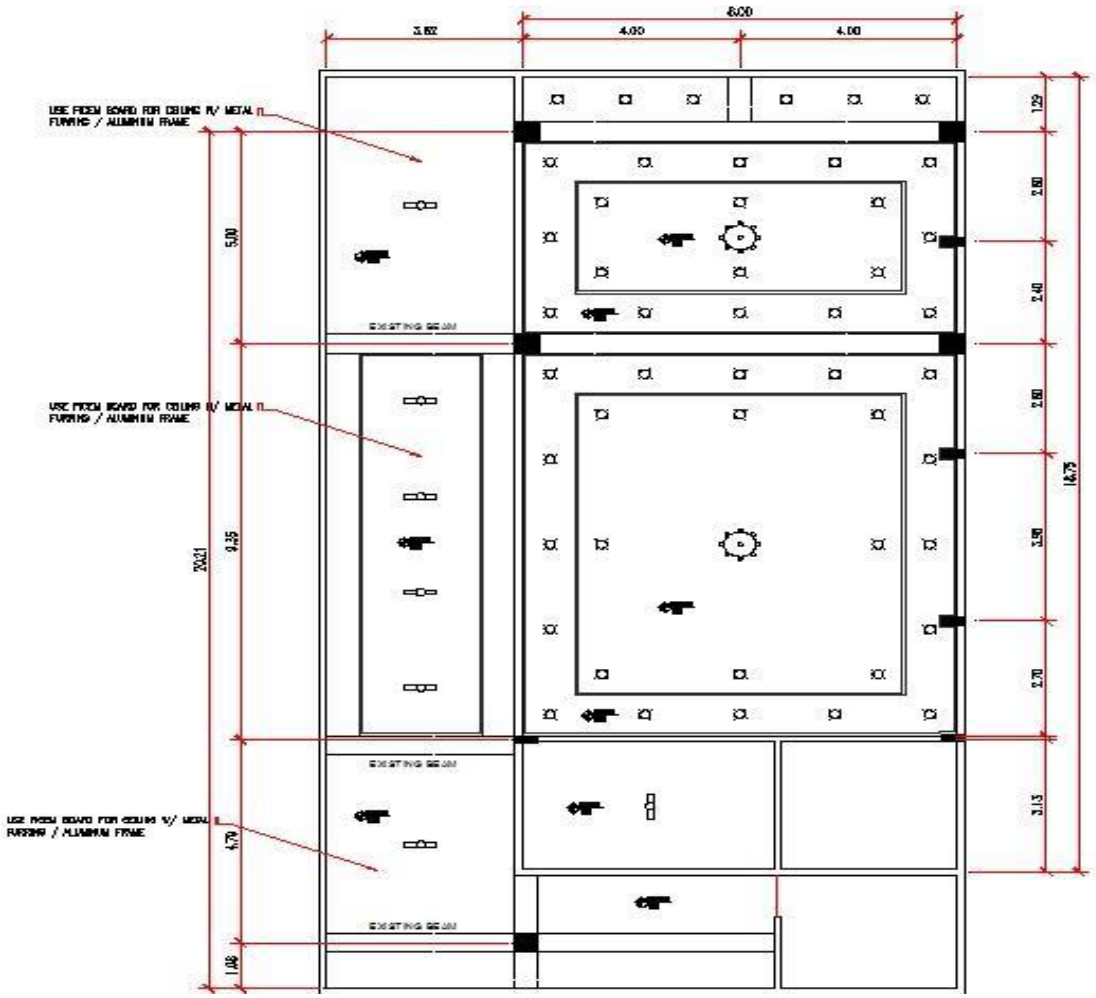

Figure 2. *The Reflected Ceiling Plan of the COED Viewing Room*

Project Cost

The estimated total project cost will be ONE HUNDRED SIXTEEN THOUSAND TWO HUNDRED EIGHTY THREE PESOS (Php116,283.00) ONLY.

Hereunder is the list of materials used for the project and their corresponding costs of the rehabilitated and refurbished ceiling system for the Viewing Room.

Description	*Quantity*	*Unit*	*Unit Cost*	*Total Cost*
Ceiling Works				
Double furring	200	length	83.00	16,600.00
Wall angle	50	length	50.00	2,500.00
Single furring	18	length	63.00	1,134.00
Carrying channel	35	length	100.00	3,500.00
4.5mmx4'x8' FCB	120	sheets	470.00	56,400.00
Pan head screw	1500	pcs.	0.70	1,050.00
Hardiflex screw	1500	pcs.	1.25	1,875.00
			Material Cost	Php83,059.00
			40% Labor	Php33,224.00
			Project Cost	Php116,283.00

Prepared by:

(SGD.) Ms. Bianca Paula G. Fernandez

(SGD.) Ms. Jouana B. Lastimosa

(SGD.) Ms. Quisa Nobe R. Rebamonte

(SGD.) Ms. Sheryl E. Cabardo

(SGD.) Ms. Dawn Valerie A. Niere

(SGD.) Ms. Melchie B. Jaca

Noted by:

(SGD.) Dr. Elpidio A. Melgo
Project Adviser

(SGD.) Dr. Reylan G. Capuno
Director, Ancillary Services, CTU MC

Work Breakdown Structures

The Work Breakdown Structures (WBS) will be established to give a better direction and guidance to the project implementers on the details of the series of activities that will be undertaken the time started until it will be carried-out to its completion.

In the implementation of the project, the following tasks will be followed:

Activities

Task 1	Conceptualization and identification of the project.
Task 2	Consultation, coordination and conference with COED key officials on the proposed project
Task 3	Submission of the letter of intent to the University President to conduct the project study
Task 4	Project planning, designing and estimating
Task 5	Presentation of the project proposal to the Project Implementation Committee for their appropriate action and approval
Task 6	Canvassing, purchasing and delivery of the ceiling materials and other supplies
Task 7	Checking, inspecting and appraising of all delivered ceiling materials and other supplies on site
Task 8	Installation of metal furring and/or wooden ceiling frames.
Task 9	Installation of the new ceiling
Task 10	Supervision, inspection, and evaluation of the on-going construction
Task 11	Final evaluation of the project by the Project Implementation Committee prior to final oral examination.
Task 12	Final oral examination of the project study to the Project Implementation Committee
Task 13	Turn-over and acceptance of the project by the University President and Signing of Deed of Donation
Task 14	Project documentation (cut-across all tasks)

Resource Assignment Matrix (RAM)

The Resource Assignment Matrix (RAM) will present the different activities to fully understand and appreciate the work and the participation of the project implementers and the wise utilization of resources and funding requirements.

	WBS	*Person(s) Involved*	*Resources Needed*	*Funding Requirement*
1.	Conceptualization and identification of the project.	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser	CTU COED Viewing Room	NA
2.	Consultation, coordination and conference with COED key officials on the proposed project	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Dean COED Director, Ancillary Services Campus Director	Project Study Proposal	NA
3.	Submission of the letter of intent to the University President to conduct the project study	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser	Letter of Intent	NA
4.	Project planning, designing and estimating	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Director, Ancillary Services	Blueprint of the project study proposal Project design plan specifications	NA
5.	Presentation of the project proposal to the Project Implementation Committee for their appropriate action and approval	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Project Study Implementation Committee	Chapter 1 of the project study proposal Digital Camera Laptops	NA
6.	Canvassing, purchasing and delivery of the ceiling materials and other supplies	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Director, Ancillary Services	List of good and reputable construction suppliers Canvass papers Delivery/Official receipt	P83,059.00
7.	Checking, inspecting and appraising of all delivered ceiling materials and other supplies on site	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Carpenters Project Adviser Director, Ancillary Services	Project design and technical specifications	NA
8.	Installation of wooden ceiling frame.	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo	Carpentry Tools	

		Ms. Melchie B. Jaca Carpenters Project Adviser Director, Ancillary Services		P33,224.00
9.	Installation of the new ceiling	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Carpenters Project Adviser Director, Ancillary Services	Project plan and Carpentry tools	
10.	Supervision, inspection, and evaluation of the on-going construction	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Director, Ancillary Services	Project Evaluation forms	
11.	Final evaluation of the project by the Project Implementation Committee prior to final oral examination	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Project Study Implementation Committee	Project plan and evaluation forms Project design and technical specifications Project Evaluation and Assessment forms	NA
12. 13. 14.	Final oral examination of the project study to the Project Implementation Committee.	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Project Study Implementation Committee	Final manuscript Laptops with LCD projector	NA
15.	Turn-over and acceptance ofthe project by the University President and Signing of Deed of Donation	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Project Study Implementation Committee Dean, COED Campus Director University President	Deed of Donation Digital Camera	NA
16.	Project documentation (cut-across all tasks)	Ms. Bianca Paula G. Fernandez Ms. Quisa Nobe R. Rebamonte Ms. Dawn Valerie A. Niere Ms. Jouana B. Lastimosa Ms. Sheryl E. Cabardo Ms. Melchie B. Jaca Project Adviser Project Study Implementation Committee	Digital Camera Laptops Records books	NA

Gant Chart

The graphic presentation below indicates the activities and the duration of each activity.

Task	*WBS*	*June*	*July*	*Aug*	*September week*				*Oct.*
					1	*2*	*3*	*4*	*1*
1	Conceptualization and identification of the project.	■	■	■					
2	Consultation, coordination and conference with COED key officials on the proposed project			■					
3	Submission of the letter of intent to the University President to conduct the project study			■					
4	Project planning, designing and estimating			■					
5	Presentation of the project proposal to the Project Implementation Committee for their appropriate action and approval			■					
6	Canvassing, purchasing and delivery of the ceiling materials and other supplies			■					
7	Checking, inspecting and appraising of all delivered ceiling materials and other supplies on site			■					
8	Installation of metal furring and/or wooden ceiling frames.				■	■	■	■	
9	Installation of the new ceiling				■	■	■	■	
10	Supervision, inspection, and evaluation of the on-going construction				■	■	■	■	
11	Final evaluation of the project by the Project Implementation Committee prior to final oral defense								■
12	Final oral defense of the project study to the Project Implementation Committee								■
13	Turn-over and acceptance of the project by the University President and Signing of Deed of Donation								■
14	Project documentation (cut-across all tasks)	■	■	■	■	■	■	■	■

References

Akinsanmi, B. (2008). The optimal learning environment: Learning theories. Retrieved March 2, 2009, from http://www. designshare.com/index.php/articles

Australian Council for Educational Research (2008). Building minds, minding building, turning Crumbling schools into environments for learning. Retrieved September 15, 2008, from http:// www.aft.org/topics/ building-conditions/downloads/ minding-bldgs.pdf

B. F. Skinner, (1968). "The Design of Experimental Communities", International Encyclopaedia of the Social Sciences (Volume 16). New York: Macmillan,

Bishop, M. (2009). A case study on facility design: The impact of new high school facilities in Virginia on student achievement and staff attitudes and behaviors. EdD dissertation, The George Washington University, United States – Washington, DC. Retrieved July 2, 2009, from Dissertations & Theses: Full Text. (Publication No. AAT 3344635).

Bivins, Faber. (2009) The Power of Color Carol Publishing Group, New Jersey

Buckley, J., Schneider, M., & Shang, Y. (2004). The effects of school quality on teacher retention in urban school districts. Washington, DC: National Clearinghouse for Educational Facilities. Retrieved July 7, 2009, from http://www.edfacilities. org/pubs/ teacher retention.cfm

Chan, T. C. (2006). Environmental impact on student learning. Retrieved May 5, 2008 from http://eric.ed.gov/ERICWeb Portal/Home. portal;jsessionid=HwnVGyBDgy9NhJG1H116JTk4TokkyTpywbjQz5r8DFCXHJYqvM1209635?_nfpb=true&ERICExtSearch

Darling-Hammond, L., & Sykes, G. (2003). Wanted: A national teacher supply policy for education: The right to meet the "highly qualified" teacher: Challenge. Education Policy Archives

Earthman, G. I. (2002). School facility conditions and student academic achievement. Retrieved February 9, 2009, from http: //www.idea.gseis.ucla.edu/publications/williams/reports/pdfs/wws08-

Earthman, G. I. and Lemaster, W.F. 2004). Prioritization of 31 criteria for school building adequacy. Baltimore, MD: American Civil Liberties Union Foundation of Maryland. Retrieved July 7, 2009, from http://www.schoolfunding.info/policy/facilities/CLU facilities_report1-04.pdf

Earthman, G. I., & Lemasters, L. (2006). Review of research on the relationship between school buildings, student achievement, and student behavior. Paper presented at annual meeting of the Council of Educational Facilities Planners, Dallas, Texas.

Filardo, M. (2008). Good buildings, better schools: An economic stimulus opportunity with long-term benefits. Retrieved May 26, 2008, from http://www.sharedprosperity.org/bp216/bp216.pdf

Frazier, L. M. (2003). Deteriorating school facilities and student learning. (ERIC Digest, Number 82). Eugene, OR: ERIC Clearinghouse on Educational Management. (ERIC Document Reproduction Service No. ED356564).

Honeyman, M. L., & Sayles, R. (2006). Developing a sense of community in secondary schools. National Association of Secondary School Principals. NASSP Bulletin, 80(584)

Lackney, J. A. (2008). Assessing school facilities for learning/assessing the impact the physical environment on the educational process: Integrating theoretical issues with practical concerns. Starkville, MS: Mississippi State University, Educational Design Institute. (ERIC Document Reproduction Service No. ED441-330).

Lackney, J. A., & Picus, L. O. (2005). School facilities – Overview, maintenance and modernization of. Retrieved September 15, 2008, from http://education.stateuniversity.com/ pages/2394/ School-Facilities.html

Lyons, J. (2001). Do schools facilities really impact a child's education? Retrieved May 27, 2008, from http://www.coe.uga.edu/ sdpl/ articles and papers/lyons.htm

Marshall, M. L. (2009). Examining school climate: Defining factors and educational influences. Retrieved February 3, 2009, from http://education.gsu.edu/schoolsafety/ download%20files/wp %202002%20school %20climate.pdf

McGowen, R. S. (2007). The Impact of school facilities on student achievement, attendance, behavior, completion rate, and teacher turnover rate in selected Texas high schools. Ph. D. dissertation, Texas A & M University, United States --Texas. Retrieved May 2, 2008, from Dissertation & Theses: Full Text. (Publication No. AAT 3296470).

McGuffey, C. W. (2002). Facilities. In H. J. Walbert Improving Educational Standards and Productivity. Berkeley, CA: McCutchan, Boston: Alyn and Bacon

Meyer-Levy, M.l., (2007); Potthoff, 2009 Enhancing Student Learning: The Role of Sustainable Classroom Design. Center for Green Schools at the U.S. Green Building Council Harvey Bernstein Vice President, Industry Insights & Alliances McGraw Hill Construction

Olson, S. L., & Kellum, S. (2003). The impact of sustainable buildings on educational achievements in k-12 schools. Retrieved October 28, 2008, from http://www.cleanerandgreener.org/down load/ sustainableschools.pdf

Perez, J. (2009). Room temperature and its impact on student test scores. Westview High School, Portland, Oregon. (Eric Reproduction Service no. ED 286274)

Phillips, R. W. (2007). Educational facility age and the academic achievement of upper elementary school students. (Doctoral dissertation, University of Georgia. Retrieved February 3, 2008, from ProQuest Digital Dissertation database. (AAT 9807080).

Schneider, M. (2002). Do school facilities affect academic outcomes? Washington, DC:

Schneider, M. (2003). Linking school facility conditions with teacher satisfaction and success. Retrieved May 30, 2008, from http://www.21csf.org/csf-home/best/best.asp

Stallings, D. (2008). Public school facilities and teacher job satisfaction. Ph. D. dissertation, East Carolina University, United States – North Carolina. Retrieved July 5, 2009, from Dissertation & Theses: Full Text. (Publication No. AAT 3302346).

Tennessee Advisory Commission on Intergovernmental Relations. (2003). Do K-12 school facilities affect education outcomes? Retrieved October 21, 2008, from http://www.tennessee.gov/tacir/PDF_ FILES/ Education/ SchFac.pd

Uline, C., & Tschannen-Moran, M. (2005). The walls speak: The interplay of quality facilities, school climate, and student achievement. Retrieved December 2, 2008, from http:// edweb .sdsu.edu/schoolhouse/documents/wallsspeak.pdf

United States Department of Education. (2000). The class size reduction program: Boosting student achievement in schools across the nation. Washington, DC: The Department Education. Retrieved October 30, 2008, from http://www.ed.gov/offices/OESE/ Class Size/class.pdf

Watson, J. (1913). Psychology as the Behaviorist Views it. Psychological Review,

Yonezawa, S., Jones, M., Mehan, H., & McClure, L. (2008). School climate and student achievement. Retrieved February 20, 2009, from http://www.closingtheachievement gap.org/cs/ctag/down load/resources/02/ Yonezawa_Policy_Brief.pdf?x-r=pcfile

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