



Erasmus+

Erasmus+ - Key Action 2
Capacity Building within the Field of Higher Education
eACCESS Project
Project number: 610041-EPP-1-2019-1-PL-EPPKA2-CBHE-JP

***EU-Asia Collaboration for aCcessible Education in
Smart Power Systems***

WP 3	Platform Development
TASK	T3.2
LEAD PARTNER	UWS
PARTICIPATING PARTNERS	ALL



Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 1



Document Status	
Date of Issue	01/04/2020
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Organisation	University of the West of Scotland
Approval Status	Draft <input type="checkbox"/> Final <input type="checkbox"/>
Number of pages	32
Keyword list	
Recipients	Only Partners <input type="checkbox"/> Public <input type="checkbox"/>
Method of Distribution	Email <input type="checkbox"/> Internet <input type="checkbox"/>
Confidentiality Status	Confidential <input type="checkbox"/> Public <input type="checkbox"/>
Copyrights	

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DOCUMENT HISTORY

VERSION NO	DATE	Approved By	Revised By
1	03/04/2021		Santiago
2	04/05/2021	QAC	
3			

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 2



Table of Contents

EXECUTIVE SUMMARY	5
INTRODUCTION	6
KNOWLEDGE MANAGEMENT.....	6
ABOUT VERIFICATION, AUDITS AND TESTING.....	6
ENACTING AUDITS IN EACCESS	7
MATCH AUDITORS TO PARTNERS	7
PREPARE FOR THE AUDIT	7
EXECUTE THE AUDIT	7
REPORT THE AUDIT.....	7
TESTING ACTIVITIES TO BE CARRIED OUT IN THE PLATFORM	8
MATCH TESTERS TO PARTNERS.....	8
PREPARE THE TEST SUITE	8
EXECUTE THE TEST SUITE	8
APPENDIX I – PARTNER ASSIGNMENT	9
TENTATIVE DEADLINE FOR TASKS.. ..	9
APPENDIX II – AUDIT REPORT TEMPLATE	10
PLANNING THE AUDIT	10
CONDUCTING THE AUDIT	10
REPORTING THE AUDIT.....	11
APPENDIX III – TESTING REPORT SHEET	12
PLANNING THE TEST	12
EXECUTING THE TEST SUITE.....	12
REPORTING.....	12
AUDIT REPORTS FROM PARTNERS	13
ATMA JAYA AUDIT REPORT BY SCU.....	13
<i>Planning the Audit</i>	13
<i>Conducting the Audit</i>	13
<i>Reporting the Audit</i>	14
KEC AUDIT REPORT BY PU	14
<i>Planning the Audit</i>	14
<i>Conducting the Audit</i>	14
<i>Reporting the Audit</i>	15
PU AUDIT REPORT BY RUB	16
<i>Planning the Audit</i>	16
<i>Conducting the Audit</i>	16
<i>Reporting the Audit</i>	17
RUB AUDIT REPORT BY KEC.....	18
<i>Planning the Audit</i>	18
<i>Conducting the Audit</i>	18
<i>Reporting the Audit</i>	19
PLANNING THE AUDIT	20

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 3



CONDUCTING THE AUDIT	20
REPORTING THE AUDIT	21
PLATFORM TEST REPORTS FROM PARTNERS	22
ATMA JAYA TEST REPORT FROM RUB	22
<i>Planning the Test</i>	22
<i>Executing the test suite</i>	22
<i>Reporting</i>	22
RUB TEST REPORT BY PU	23
<i>Planning the Test</i>	23
<i>Executing the test suite</i>	23
<i>Reporting</i>	24
KEC TEST REPORT BY SCU	25
<i>Planning the Test</i>	25
<i>Executing the test suite</i>	25
<i>Reporting</i>	26
PU TEST REPORT BY ATMA JAYA	27
<i>Planning the Test</i>	27
<i>Executing the test suite</i>	27
<i>Reporting</i>	28
RUB TEST REPORT BY PU	29
<i>Planning the Test</i>	29
<i>Executing the test suite</i>	29
<i>Reporting</i>	30
PLATFORM TEST OF SCU BY KEC	31
<i>Planning the Test</i>	31
<i>Executing the test suite</i>	31
<i>Reporting</i>	32

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 4



EXECUTIVE SUMMARY

This document describes the procedure for verifying the deployment of the e-Learning platform in each of the partners, and the training carried out. Regarding verification, a dual testing and Audit strategy was conceived. This strategy also supported peer on the job training by the partners.

This document contains the description of the activities carried out, as well as supporting documentation that was developed to assure the quality of the resulting platform. Partners were encouraged to leverage their expertise to favour the knowledge sharing among them and foster the platform's sustainability after the end of the project.

Evidence of testing and Audit is presented in the annex. Issues identified in these activities were escalated to the project management for resolution.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: <u>05.03.2020</u>	PAGE: 5



Introduction

This document describes the verification strategy for assuring the deployment of the Moodle platform among the Asian partners. This strategy is based on using D3.1 Module Guidelines as a specification document to enact an Audit-type verification process. The Audit-type activities will be complemented with targeted 'Test Cases' to verify the behaviour of the platform.

Training and Knowledge management

To favour knowledge sharing implementation, partners will cross-Audit and cross-test each other. For each implementation partner, an Auditor and Tester will be assigned. If possible, they will be from different institutions. This will ensure that best practices are shared homogeneously among the partners. Assignment is documented in Appendix I – Partner Assignment.

As a consortium, we understand this as a form of on-the-job peer-to-peer training, where the knowledge of the partners was leveraged to support the homogeneous development of each platform at each of the partners institutions. We enacted this strategy with the view towards assuring the sustainability of the results of the project.

About verification, Audits and testing

In this document, we understand verification as the set of activities aimed at assuring that a product conforms with a standard or specification. In product development, the typical verification activities are Audits, reviews and testing.

Taking the ISO 9000 Audits, an Audit is a systematic, independent and documented process for obtaining objective evidence and evaluating it objectively, to determine the extent to which the Audit criteria are fulfilled or put simply. This document will provide the procedure and criteria for performing product Audits.

Finally, according to the ISO\IEC\IEEE 29119, Testing is the process that dynamically executes a software item to provide information to stakeholders about the behaviour of a system. We will exploit testing activities to complement the Audit process and to verify the dynamic behaviours of the platform. This document describes the guidelines to be followed.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: <u>05.03.2020</u>	PAGE: 6



Enacting Audits in eACCESS

This section describes the Audit process to be followed in eACCESS.



Match Auditors to partners

This document will assign Auditors to each partner institutions. This assignment is documented in Appendix I – Partner Assignment. Internally, each partner will need to assign the responsibility for conducting the Audit. The host institution will also need to assign a counterpart that will assist the Auditor in its tasks.

Prepare for the Audit

The Auditor and the counterpart will agree on a date and will communicate that to the project.

The Auditor will create a new document, based on Appendix II – Audit Report template section, and make sure that all necessary elements are available to carry out the Audit. This will be documented in the Planning the section.

Execute the Audit

The Auditor will follow the checklist in Conducting the Audit. For every item labelled as Partial or Not Implemented, the Auditor must leave a note suggesting how to fix the issue to compliance.

Report the Audit

The Auditor and the counterpart will agree on a set of actions. Typically, there will be one action for each of the issues found during the Audit. The counterpart will agree on a date to have these issues resolved.

The completed template will be sent to UWS who will add it as annexed to this document before submitting it as a deliverable to the EU commission.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 7



Testing activities to be carried out in the platform

As mentioned, testing activities will be carried out to assure that the platform operates as intended and that it is ready to support the delivery of the content. Test cases are documented in Appendix III – Testing report .

This section describes the Testing process to be followed in eACCESS.



Match Testers to partners

This document will assign the Testers and to each partner institutions. This assignment is documented in Appendix I – Partner Assignment. Internally, each partner will need to assign the responsibility for conducting the testing. The host institution will also need to assign a counterpart that will assist the Tester in its tasks.

Prepare the test suite

The Tester and the counterpart will agree on a date and will communicate that to the project.

The Tester will create a new document, based on section Appendix III – Testing report , and make sure that all necessary elements are available to carry out the Audit. This will be documented in the Prepare the test suite section.

Execute the test suite

The Tester will follow the test cases in section Executing the test suite.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 8



Appendix I – Partner Assignment

The following table documents the assignment for Audits and testing.

Host	Partner who will Audit	Partner who will Test
Atma Jaya Catholic University of Indonesia	Soegijapranata Catholic University	College of Science and Technology, Royal University of Bhutan
College of Science and Technology, Royal University of Bhutan	Kantipur Engineering College	Pokhara University.
Kantipur Engineering College	Pokhara University.	Soegijapranata Catholic University
Pokhara University	College of Science and Technology, Royal University of Bhutan	Atma Jaya Catholic University of Indonesia
Soegijapranata Catholic University	Atma Jaya Catholic University of Indonesia	Kantipur Engineering College

Tentative deadline for Tasks.

Task	Deadline
Auditor and testing training	By December 2020
Audits and Test reports sent to UWS	By February 2021
Re-work on issues identified by Audits and testing activities	By End of March 2021
UWS consolidates reports and results into Deliverable T1.3	By 1/04/2020

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 9



Appendix II – Audit Report template

Audit Plan Date:		Host institution:	
Auditor:			

Planning the Audit

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	
Log in credentials:	
Execution Date	

Conducting the Audit

For each of the following criteria document if the implementation covers Totally, partially or Not implemented it.

<If Auditing more than one module create a copy of the following table for each of the modules under the Audit>

Module		
Criteria	Judgement	Notes
Is the module site organized by topics to represent each section?	Total / Partial / Not Implemented	
Is topic overview (short description of the contents) provided?	Total / Partial / Not Implemented	
Is there an outline describing how students are expected to use the module?	Total / Partial / Not Implemented	
The staff connect details are included in the outline?	Total / Partial / Not Implemented	
Is there a communication statement (describing how students and staff will communicate for different purposes) included?	Total / Partial / Not Implemented	
Are the assessments criteria, the mechanisms and schedule clearly conveyed?	Total / Partial / Not Implemented	
Are well-labelled assessment submission points mentioned?	Total / Partial / Not Implemented	
Is there a clear mechanism for students to access their progression (early	Total / Partial / Not Implemented	
Project: eACCESS	Author:	
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: <u>05.03.2020</u>
		PAGE: 10



feedback about the progress and understanding of the module)?		
Is there a clear distinction between knowledge feedback and graded (assessments) feedback activities?	Total / Partial / Not Implemented	
Is there a mechanism to review the elements published in the module (to assure that the information is up-to-date, consistent, and relevant)?	Total / Partial / Not Implemented	

Reporting the Audit

The following issues need to be resolved:

Issue	Agreed action	Planned completion date



Appendix III – Testing report template

Planned Test Date:		Host institution:	
Tester:			

Planning the Test

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	
Log in credentials:	
Execution Date	

Executing the test suite

Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Pass/Fail	
Test that all videos in the module site can be played without errors.		
Test that there are no broken links in the site.		

Reporting

<All test cases have passed, no further action required

The host institution (<insert name here>) will complete all incidents by <agreed date>

>

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 12



Audit Reports from Partners

Atma Jaya Audit report by SCU

Audit Plan Date:	18 February 2021	Host institution:	ATM
Auditor:SCU			

Planning the Audit

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	Elearning.atmajaya.ac.id
Log in credentials:	Eaccess-teacher
Execution Date	18 February 2021

Conducting the Audit

For each of the following criteria document if the implementation covers Totally, partially or Not implemented it.

Module		
Criteria	Judgement	Notes
Is the module site organized by topics to represent each section?	Total	
Is topic overview (short description of the contents) provided?	Total	
Is there an outline describing how students are expected to use the module?	Total	
The staff connect details are included in the outline?	Total	
Is there a communication statement (describing how students and staff will communicate for different purposes) included?	Total	
Are the assessments criteria, the mechanisms and schedule clearly conveyed?	Total	
Are well-labelled assessment submission points mentioned?	Total	
Is there a clear mechanism for students to access their progression (early feedback about the progress and understanding of the module)?	Total	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 13



Is there a clear distinction between knowledge feedback and graded (assessments) feedback activities?	Total	
Is there a mechanism to review the elements published in the module (to assure that the information is up-to-date, consistent, and relevant)?	Total	

Reporting the Audit

The following issues need to be resolved:

Issue	Agreed action	Planned completion date
-	-	-

KEC Audit report by PU

Audit Plan Date:	2021-02-25	Host institution:	KEC
Auditor:PU			

Planning the Audit

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	http://202.79.34.70:8281
Log in credentials:	
Execution Date	2021-02-25

Conducting the Audit

For each of the following criteria document if the implementation covers Totally, partially or Not implemented it.

Module	Judgement	Notes
Criteria		
Is the module site organized by topics to represent each section?	Total	
Is topic overview (short description of the contents) provided?	Total	
There ss an outline describing how students are expected to use the module?	Total	
The staff connect details are included in the outline?	Total	
There is a communication statement (describing how students and staff will communicate for different purposes) included?	Total	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 14



Are assessments criteria, mechanisms and schedule clearly conveyed?	Total	
Are well-labelled assessment submission points mentioned?	Total	
Is there a clear mechanism for students to access their progression (early feedback about the progress and understanding of the module)?	Total	
Is there a clear distinction between knowledge feedback and graded (assessments) feedback activities?	Total	
Is there a mechanism to review the elements published in the module (to assure that the information is up-to-date, consistent, and relevant)?	Total	

Reporting the Audit

The following issues need to be resolved:

Issue	Agreed action	Planned completion date



PU Audit report by RUB

Audit Plan Date:	2021-03-20	Host institution:	Pokhara University
Auditor: RUB			

Planning the Audit

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	www.pusoe.edu.np
Log in credentials:	
Execution Date	2021-02-20

Conducting the Audit

For each of the following criteria document if the implementation covers Totally, partially or Not implemented it.

Module	Judgement	Notes
Criteria		
Is the module site organized by topics to represent each section?	Partial	Each Section is developed but not in collapsed view.
Is topic overview (short description of the contents) provided?	Total	Under each section a short description is provided.
Is there an outline describing how students are expected to use the module?	Total	The course objectives and assessments are clearly mentioned.
The staff connect details are included in the outline?	Total	
Is there a communication statement (describing how students and staff will communicate for different purposes) included?	Total	
Are the assessments criteria, the mechanisms and schedule clearly conveyed?	Total	Assessment criteria, mechanisms and schedule is clearly conveyed.
Are well-labelled assessment submission points mentioned?	Total	
Is there a clear mechanism for students to access their progression (early feedback about the progress and understanding of the module)?	Total	
Is there a clear distinction between knowledge feedback and graded (assessments) feedback activities?	Partial	Graded Assessment feedback is present but knowledge feedback or general feedback is missing.
Is there a mechanism to review the elements published in the module (to	Partial	No External Links to document and sites.

Project: eACCESS	Author:			
DOCUMENT CODE:	VERSION:	SUBMISSION DATE:	PAGE:	
	1.0	05.03.2020	16	



assure that the information is up-to-date, consistent, and relevant)?		
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Reporting the Audit

The following issues need to be resolved:

Issue	Agreed action	Planned completion date
<ol style="list-style-type: none"> 1. Feedback may be incorporated in the moodle apart from assignment feedback. 2. External links to the sites and documents from moodle. 	<ol style="list-style-type: none"> 1. Agreed to develop a robust feedback system 2. Agreed to have external links or URLS embedded in the moodle system. 	By 24 th March 2021 (Test Date)

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: <u>05.03.2020</u>	PAGE: 17



RUB Audit report by KEC

Audit Plan Date:	2021-02-22	Host institution:	RUB
Auditor: KEC			

Planning the Audit

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	https://vle.cst.edu.bt/
Log in credentials:	
Execution Date	2021-02-23

Conducting the Audit

For each of the following criteria document if the implementation covers Totally, partially or Not implemented it.

Module		
Criteria	Judgement	Notes
Is the module site organized by topics to represent each section?	Total	
Is topic overview (short description of the contents) provided?	Total	
Is there an outline describing how students are expected to use the module?	Total	
The staff connect details are included in the outline?	Total	
Is there a communication statement (describing how students and staff will communicate for different purposes) included?	Total	
Are the assessments criteria, the mechanisms and schedule clearly conveyed?	Total	
Are well-labelled assessment submission points mentioned?	Total	
Is there a clear mechanism for students to access their progression (early feedback about the progress and understanding of the module)?	Total	
Is there a clear distinction between knowledge feedback and graded (assessments) feedback activities?	Total	
Is there a mechanism to review the elements published in the module (to assure that the information is up-to-date, consistent, and relevant)?	Total	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 18



Reporting the Audit

The following issues need to be resolved:

Issue	Agreed action	Planned completion date
-	-	-

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 19



SCU Audit report by Atma Jaya

Audit Plan Date:	23 March 2021	Host institution:	Soegijapranata Catholic University
Auditor:		Budi Kartadinata & Linda Wijayanti Atma Jaya Catholic University of Indonesia	

Planning the Audit

The Auditor has been granted access to the Moodle at the host institution	YES
Document here the access information	
Moodle URL	https://cyber.unika.ac.id/
Log in credentials:	
Execution Date	23 March 2021

Conducting the Audit

For each of the following criteria document if the implementation covers Totally, partially or Not implemented it.

<If Auditing more than one module create a copy of the following table for each of the modules under the Audit>

Module		
Criteria	Judgement	Notes
Is the module site organized by topics to represent each section?	Total	
Is topic overview (short description of the contents) provided?	Total	
Is there an outline describing how students are expected to use the module?	Total	
The staff connect details are included in the outline?	Total	
Is there a communication statement (describing how students and staff will communicate for different purposes) included?	Total	
Are the assessments criteria, the mechanisms and schedule clearly conveyed?	Total	
Are well-labelled assessment submission points mentioned?	Total	
Is there a clear mechanism for students to access their progression (early feedback about the progress and understanding of the module)?	Total	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 20



Is there a clear distinction between knowledge feedback and graded (assessments) feedback activities?	Total	
Is there a mechanism to review the elements published in the module (to assure that the information is up-to-date, consistent, and relevant)?	Total	

Reporting the Audit

The following issues need to be resolved:

Issue	Agreed action	Planned completion date


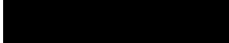
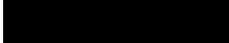



Platform Test reports from Partners

Atma Jaya Test Report from RUB

Planned Test Date:	15/02/2021	Host institution:	Atma Jaya University
Tester: Namgay Tenzin, CST,RUB		College of Science and Technology, Royal University of Bhutan	

Planning the Test

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	https://elearning.atmajaya.ac.id/
Log in credentials:	Teacher: Username:  Password:  Student: Username:  Password: 
Execution Date	3/3/2021

Executing the test suite

Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Fail	The Moodle of Atma Jaya currently doesnot have the provision of sending email, as per inquiry with the platform coordinator.
Test that all videos in the module site can be played without errors.	Pass	Implemented under the Instruction for students. A dummy link is being created.
Test that there are no broken links in the site.	Pass	All the topics are organized with description with details inside each section. Assignment and feedback mechanisms are being implemented along with grade book set up.

Reporting

All test cases have passed, no further action required

Project: eACCESS	Author:			
DOCUMENT CODE:	VERSION:	SUBMISSION DATE:	PAGE:	
	1.0	05.03.2020	22	



RUB Test Report by PU

Planned Test Date:	2021-3-20	Host institution:	CST RUB
Tester: PU			

Planning the Test

The Auditor has been granted access to the Moodle at the host institution		<YES>
Document here the access information		
Moodle URL	https://vle.cst.edu.bt/	
Log in credentials:	dipeshshrestha	
Execution Date	2021-3-20	

Executing the test suite

Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Pass	
Test that all videos in the module site can be played without errors.	Pass	
Test that there are no broken links in the site.	Pass	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 23



2010 - PROGRAMMABLE LOGIC CONTROLLER / A

[Home](#) / [My courses](#) / [2010-TEA333/A](#)



47 ENROLLED STUDENTS

[News and Discussion](#)

Instructor will use this Forum to update any news, and student can ask question to instructors or peers on this forum as well.

Forum is the main communication tools. The additional communication tool is Microsoft Teams, but we will use Teams for teleconferencing only.

Welcome



TEA 333 Programmable Logic Controller

Instructors:

Ir. V. Budi Kartadinata, SE, MT; Karel Octavianus Bachri; Annisa Sarah



Description:

An introduction to Programmable Logic Controller (PLC), this course gives a fundamental principles of how PLCs work in industrial automation. The course provides theoretical foundation, practical information and skills about designing, programming, and troubleshooting a PLC system.

[Course Plan \(Syllabus\)](#)

All information related to TEA333 PLC are explained in here

[Glossary](#)

for the definition of some terms related to this course

Topic 1: Introduction to Programmable Logic Controllers



Topic 1: Introduction to Programmable Logic Controllers

Reporting

All test cases have passed, no further action required.

Project: eACCESS	Author:			
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 24	



KEC Test report by SCU

Planned Test Date:	2021-03-21	Host institution:	KEC
Tester:	SCU		

Planning the Test

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	http://202.79.34.70:8281
Log in credentials:	
Execution Date	21 March 2021

Executing the test suite

Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Unable to test email	Email was unable to test, but messages and chat can delivered to student.
Test that all videos in the module site can be played without errors.	Pass	
Test that there are no broken links in the site.	Pass	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: <u>05.03.2020</u>	PAGE: 25



Switchgear and Protection

[Dashboard](#) / [My courses](#) / [Switchgear and Protection](#)

General Information and Announcements

Your progress 

Contact Information

Bishal Rimal
bishalrimal@kec.edu.np

Lecture : 4
Tutorial : 1
Practical : 3/2

Course Objective:

To present fundamental knowledge on protection system and its associated components in power system.

References

1. Sunil S. Rao "Switchgear and protection" Khanna Publishers
2. G. Mason "The art and science of protective realying"
3. J.B Gupta "Switchgear and protection" Kataria and Sons

Practical

1. Draw magnetizing curve for a protective CT. Check Knee point voltage
2. Test over current device in an Air Circuit Breaker for operation using primary injection
3. Test an induction disc relay in over current in over current protection scheme for operating characteristics using secondary injection.
4. Test an induction disc relay in residual earth fault protection scheme for operating characteristics and setting using secondary injection.
5. Check connections on a biased differential protection scheme of transformer. Test the scheme for operation and setting values on internal faults using primary injection
6. Measurement of soil resistivity

 [Announcements](#)

Instruction for Students

1. Principle of power system protection

The chapter discusses the necessity of a protection scheme in the power system and its components. The chapter also introduces the concept of backup protection and protection zone.

Reporting

In order to test delivering messages between students and lecturer, it needs account Moodle both for the lecturer and the students.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 26



PU Test Report by Atma Jaya

Planned Test Date	23 March 2021	Host Institution	Pokhara University
Tester	Budi Kartadinata & Linda Wijayanti Atma Jaya Catholic University of Indonesia		

Planning the Test

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	https://pusoe.edu.np
Log in credentials:	
Execution Date	23 March 2021

Executing the test suite

Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Pass	
Test that all videos in the module site can be played without errors.	Pass	
Test that there are no broken links in the site.	Pass	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 27



Fundamentals of Electrical and Electronic [ELX 112,3]



Dashboard / My courses / Fundamentals of Electrical and Electronic [ELX 112,3]

Announcements

Himalayan Journal of Applied Science and Engineering (HIJASE)

Your progress

General Information:

Students can communicate subject teacher for further clarification:

Name of course: *Fundamentals of Electrical and Electronic*
 Course code: *ELX 112*
 Theory-Tutorial-Practical: *3-1-2*
 Semester: *2nd Semester*
 Course instructor: *Associate Professor Dr. Madhu Sudan Kayastha*
 Email address: *madhusudan@pu.edu.np*
 Credit: *3*
 Faculty: *Bachelor in Civil and Rural Engineering (BCRE)*

Course Objective:

After completion of this course students will be able to:

1. Analyze electric circuits
2. Gain familiarity with semiconductor devices
3. Introduction of semiconductor logic

Evaluation and marks distribution:

Evaluation System:

	Theory (Th.)	Practical (Pr.)	Total
Internal	30	20	50
Final	50	-	50
Total	80	20	100

Internal Evaluation:

	Theory (Th.)	Practical (Pr.)
Attendance	5	5

Reporting

This testing is based on the course: Fundamentals of Electrical and Electronic. All test cases have passed, no further action required.

Project: eACCESS	Author:			
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 28	



RUB test report by PU

Planned Test Date:	2021-3-20	Host institution:	CST RUB
Tester: PU			

Planning the Test

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	https://vle.cst.edu.bt/
Log in credentials:	dipeshshrestha
Execution Date	2021-3-20

Executing the test suite

Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Pass	
Test that all videos in the module site can be played without errors.	Pass	
Test that there are no broken links in the site.	Pass	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 29



BSCP - Power System Control and Protection

[Home](#) / [My courses](#) / [BSCP](#)

Your progress

- [Announcements](#)
- [Discussion Forum for High Voltage Engineering](#)
- [Attendance](#)
- [Zorig Melong Technical Journal of CST](#)
- [Course Document](#)

General Information and Announcement

For any discussions, clarifications and communication, you can contact the tutor.

Contact Information

Name: Namgay Tenzin

email: namgaytenzin.cst@rub.edu.bt

web: <https://cst.edu.bt/index.php/en/component/sppagebuilder?view=page&id=29>

M# 17*****

Bibliographic References for the Course:

Reading lists:

Essential Reading

1. Naidu, M. S. & Kamaraju, V. (2009). *High Voltage Engineering* (3 ed.). New Delhi. Tata McGraw Hill Publishing Company.
2. Wadha, C. L. (2007). *High Voltage Engineering* (2 ed.). New Delhi: New Age International.
3. Kuffel, E., Zaengl, W.S. & Kuffel J. (2000). *High Voltage Engineering Fundamentals* (1ed.). New Delhi: Elsevier India Pvt. Ltd.

Additional Reading:

1. Arora, R. & Mosch, W. (2011). *High Voltage and Electrical Insulation Engineering* (1 ed). New Delhi. Wiley-IEEE Press.
2. Farouk A. M. R. & Giao N. T. (2014). *High Voltage Engineering* (1 ed). New Delhi. CRC Press.
3. Hauschild, W. & Lemke, E. (2014). *High Voltage Test and Measuring Techniques* (1 ed). New York. Springer Heidelberg.
4. Holtzhausen, J. P. & Vosloo, W. L. (2016). *High Voltage Engineering – The Practice and Theory* (1 ed). Retrived from: <http://electrical-engineering-portal.com/res/High-Voltage-Engineering-Practice-and-Theory.pdf>

Reporting

All test cases have passed, no further action is required.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 30



Platform Test of SCU by KEC

Planned Test Date:	2021-03-21	Host institution:	SCU
Tester:	KEC		

Planning the Test

The Auditor has been granted access to the Moodle at the host institution	<YES>
Document here the access information	
Moodle URL	Cyber.unika.ac.id
Log in credentials:	
Execution Date	

Executing the test suite







Test Case	Result	Notes
Test that the platform can send an email to enrolled students.	Unable to test	Messages and information were flowing easily to students without problem. Couldnot figure out how to send email to students from moodle.
Test that all videos in the module site can be played without errors.	Pass	
Test that there are no broken links in the site.	Pass	

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 31







Applied Photovoltaic

Your progress

-  Announcements
-  Test Video
-  test assignment
-  Hand Book I
-  Handbook II
-  handbook III



Introduction

-  Attendance Applied Photovoltaic I
-  Introduction Applied Photovoltaic
- Check out the video on youtube:
 1. Polluting fossil fuel
 2. Solar power generation applications
-  Introduction Applied Photovoltaic
-  Introduction Applied Photovoltaic

Photovoltaic Characteristics

-  Photovoltaic Characteristics

DC-DC Converter as Load Adjuster

Reporting

All test cases have passed, no further action is required.

Project: eACCESS	Author:		
DOCUMENT CODE:	VERSION: 1.0	SUBMISSION DATE: 05.03.2020	PAGE: 32