AREA IX
LABORATORIES

S.1. The equipment, supplies and materials are available in the laboratories and shops.

List of Laboratory Equipments



QUANTITY	EQUIPMENT	DESCRIPTION	PHOTO
150	Computer Unit	For use by instructors and students for lectures, demonstrations, laboratory activities and other related activities in laboratory rooms	
5	Projector	For use by instructors and students for lectures, demonstrations, and research purposes in laboratory rooms and lecture rooms	
4	Tablet	For use by instructors and students for lectures, demonstrations, and research purposes	

2	Switch	For use by instructor and students for activities that require such tools	
10	Crimping Tool	For use by instructor and students for activities that require such tools	
1	Smartboard	For use by instructors during lectures and demonstration purposes	
1	Internet Connection	For use by students and instructors for research, demonstrations, laboratory exercises, and other related activities	
2	Printer	For use by instructors to reproduce instructional materials such as quizzes, test papers, laboratory exercise sheets and other related documents	
1	Photocopier	For use by instructors to reproduce instructional materials such as quizzes, test papers, laboratory exercise sheets and other related documents	

4	Projector Screen	For use by classes that require the use of projectors	
1	Smart TV	For demonstration and use of classes that require Film Viewing and other related activities	
4	Computer Laboratory Room	For laboratory classes that require the use of computers, specifically for computer-related courses	
4	Whiteboard	For use by instructors and students for classes in computer laboratory rooms	
1	Virtual Library IT Room	For use by students and instructors of the BLIS Program for laboratory purposes	
1	DDC Cataloguing Classification Tools	For use by BLIS instructors and students for their laboratory and other related activities	
1	Follet Destiny Library Integrated System	For use by BLIS instructors and students for their laboratory and other related activities	



1	KEPLRC Viewing Room	For use by instructors and students for viewing related activities	

S.2. Apparatuses, tools and materials conform to the specifications required for the subjects in accordance with the CMO of the Program.

Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION

Commission on Higher Education
OFFICIAL RELEASE
CHED Central Office
RECORDS SECTION
C.P. Garcia Ave., U.P. Diliman, Q.C.

CHED MEMORANDUM ORDER (CMO)
NO. 25 ;
Series of 2015

SUBJECT : REVISED POLICIES, STANDARDS, AND GUIDELINES FOR BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS), BACHELOR OF SCIENCE IN INFORMATION SYSTEMS (BSIS), AND BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSIT) PROGRAMS

In accordance with the pertinent provisions of Republic Act (RA) No. 7722, otherwise known as the "*Higher Education Act of 1994*," in pursuance of an outcomes-based quality assurance system as advocated under CMO 46 s. 2012, and by virtue of the Commission en banc Resolution No. 268-2015 dated May 25, 2015 the following policies, standards and guidelines (PSGs) are hereby adopted and promulgated by the Commission.

ARTICLE I
INTRODUCTION

Section 1 **Rationale**

Based on the Guidelines for the Implementation of CMO 46 s 2012, this PSG implements the "shift to learning competency-based standards/outcomes-based education." It specifies the 'core competencies' expected of graduates of *Bachelor of Science in Computer Science (BSCS), Bachelor of Science in Information Systems (BSIS), and Bachelor of Science in Information Technology (BSIT)*, "regardless of the type of HEI they graduate from." However, in "recognition of the spirit of outcomes-based education and ... of the typology of HEIs," this PSG also provides "ample space for HEIs to innovate in the curriculum in line with the assessment of how best to achieve learning outcomes in their particular contexts and their respective missions ..."

The field of computing is ever dynamic; its advancement and development had been rapid and its evolvement is a continuous process (O'Brien, 2008). To face the challenges of advancement, the Commission recognizes the need to be responsive to the current needs of the country. It is essential and important that the country's computing capability be continually developed and strengthened to be at par globally.

It is the objective of the Commission to develop and promote the Policies, Standards and Guidelines (PSG) for BSCS, BSIS and BSIT, to provide a minimum standard for Higher Education Institutions (HEIs) offering or intending to offer these programs. The PSG is developed with consultations from all stakeholders, from the academe to industry (Sarmiento, 2009).

The PSG contains provisions that cultivate the culture of excellence in offering these programs. This is in line with the vision of the Commission to have HEIs produce competent graduates that shall cater to the needs of the industry. The PSG is also designed for all HEIs to exercise their innovativeness and creativity in the development of their curricula in the offering of BSCS, BSIS, and BSIT programs (RA 7722, 1994).

15.2.6 The library facilities may be augmented by providing Learning Commons.

15.3 Space Requirements. - The library should have a seating capacity of at least five percent (5%) of the total students enrolled and a minimum floor area of at least two (2) sqm per seat. This may include spaces provided as Learning Commons.

Section 16 Laboratory and Physical Facilities

16.1 **Classroom Requirements**. There should be at least one classroom per one hundred fifty (150) students enrolled. Preferably, there should be no more than 50 students in a class. In case of large classes with more than 50 students, preferably, there should be separate discussion classes with at most 50 students each.

16.2 **Laboratory Requirements**. The number of terminals dedicated for computing students should be at least 1/5 of the total number of computing students. This is to allow each student to have enough individual hands-on computer time per week. The computer-to-student ratio in a laboratory class should be 1:1.

In addition to teaching facilities, the HEI must provide internet access for the students and faculty members. All computer laboratories must have Internet Access. The minimum dedicated bandwidth must be at least 4Mbps. There should be at least 4Mbps per 500 students. Students must also have access to wifi and to a learning management system.

The required computer hardware and software should be able to respond to the objectives of the courses in the curriculum. They should conform to generally accepted industry standards and be capable of providing training in multiple platforms. There should also be equipment for courses that require specific hardware such as routers and switches. Only licensed software, including free and open source software, may be installed.

16.3 **Audio Visual Facilities.** Every laboratory must be equipped with projection equipment or large display to demonstrate digital content. In addition, projectors must also be available for use in lecture rooms. Large lecture halls must be equipped with sound systems.

ARTICLE VII
COMPLIANCE OF HEIs

Using the **CHED Implementation Handbook for OBE and ISA** as reference, a HEI shall develop the following items which will be submitted to CHED when they apply for a permit for a new program or the approval of the transformation of existing programs to outcomes-based framework:

Section 17 The complete set of program outcomes, including its proposed additional program outcomes.

Section 18 Its proposed **curriculum** and its justification including a curriculum map.

Section 19 Proposed **performance indicators** for each outcome. Proposed measurement system for the level of attainment of each indicator.



Statement of Account

878295322

University Of Southern Mindanao
Gf
Ictc Building
University Of Southern Mindana
Kabacan North Cotabato
9407 Philippines
Attn : Xenia Lanoy

Bill Number	28
Bill Period	01 Feb 21 to 28 Feb 21
Account Number	878295322

Previous Balance Due Immediately	179,200.00
Current Balance Due Date Mar 21, 2021	89,600.00
Total Amount Due	P268,800.00

Statement Summary

Previous Bill Charges	**Amount**
Amount Due from Previous Bill	179,200.00
Remaining Balance from Previous Bill	P179,200.00
Current Bill Charges	
Monthly Recurring Fee (MRF)	80,000.00
VAT	9,600.00
Total Current Bill	P89,600.00

TOTAL AMOUNT DUE: P268,800.00

IMPORTANT INFORMATION

Your Account Statement for this bill period covers monthly recurring fee for fixed-based services from March 01 to 31, 2021 and actual usage charges for usage-based services from February 01 to 29, 2021.

For questions about your billing statement or any other concern, please let us know. You may contact us through our Globe Business Support (GBS) at e-mail enterprisesupport@globe.com.ph. Our GBS representatives will be available to assist you from 8AM to 5PM Mondays thru Fridays (excluding holidays). If no error is reported within 30 days from billing date, the bill will be considered true and correct.

In compliance with RA 9510 or the the Credit Information Systems Act (CISA), we'll be sending basic credit information about your Globe account/s, including any overdue balance to the Credit Information Corp. (CIC), a state-run agency, on a monthly basis. We at Globe value your awareness on these matters. Learn more at www.creditinfo.gov.ph.

You may have overlooked payment of your previous bill. Please pay your overdue charges immediately.

Payments made after the previous bill period's due date may not be reflected in this bill.

Please examine your Statement of Account immediately. If no discrepancy is reported within 30 days from this bill's cut-off date, the contents of this statement will be considered correct. Thank you.

University Of Southern Mindanao
Gf
Ictc Building
University Of Southern Mindana
Kabacan North Cotabato
9407 Philippines
Attn : Xenia Lanoy

SERVICE	ACCOUNT NUMBER	BILL NUMBER	BILL PERIOD	PAYMENT DUE DATE:	AMOUNT DUE:
Globe Landline/ Broadband	**878295322**	**28**	**01 Feb 21 to 28 Feb 21**	**Due Immediately**	179,200.00
				Mar 21, 2021	89,600.00
				TOTAL AMOUNT DUE:	**P268,800.00**

878295322 *UNIVERSITY OF SOUTH*000026880000

Innove Communications, Inc.
A wholly-owned subsidiary of Globe Telecom, Inc.

University Of Southern Mindanao Account No.: 878295322 Bill No.: 28 Page: 2

MONTHLY RECURRING FEE (MRF)

Service Id	Rental Period	Description	Speed	Amount
IC-APZ-2349	03/01/21-03/31/21	DIRECT INTERNET - ICTC BUILDING UNIVERSITY OF SOUTHERN MINDANAO KABACA NORTH COTABATO		80,000.00
IC-APZ-2349	03/01/21-03/31/21	DIRECT INTERNET MRC	50 Mbps	
IC-APZ-2349	03/01/21-03/31/21	EQUIPMENT (STRAIGHT LEASE)		0.00
Total Monthly Recurring Fee (MRF)				**80,000.00**

SUMMARY

	MRC(PHP)	OTC(PHP)	Usage(PHP)	Total(PHP)
DIRECT INTERNET	80,000.00	0.00	0.00	80,000.00
Total Summary	**80,000.00**	**0.00**	**0.00**	**80,000.00**

Internet Utilization in USM

Interface <WAN2> Statistics

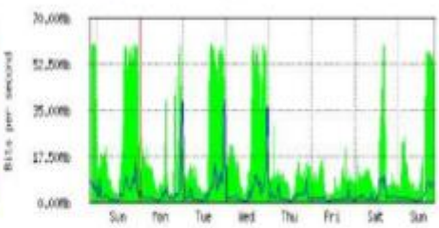
- Last update: Sun Jan 30 20:30:21 2011

"Daily" Graph (5 Minute Average)



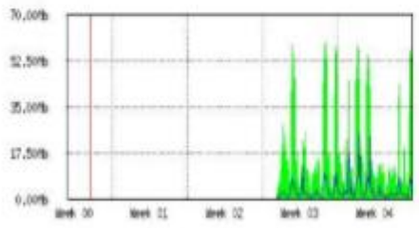
Max In: 60.08Mb; Average In: 20.71Mb; Current In: 58.90Mb;
Max Out: 17.80Mb; Average Out: 2.74Mb; Current Out: 9.16Mb;

"Weekly" Graph (30 Minute Average)



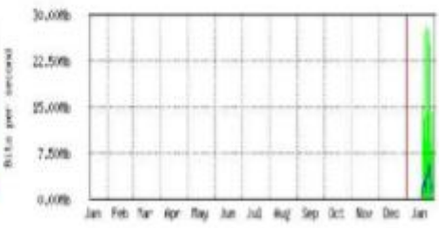
Max In: 69.46Mb; Average In: 19.65Mb; Current In: 50.72Mb;
Max Out: 59.15Mb; Average Out: 3.20Mb; Current Out: 7.08Mb;

"Monthly" Graph (2 Hour Average)



Max In: 60.04Mb; Average In: 18.32Mb; Current In: 54.48Mb;
Max Out: 24.12Mb; Average Out: 2.82Mb; Current Out: 6.21Mb;

"Yearly" Graph (1 Day Average)

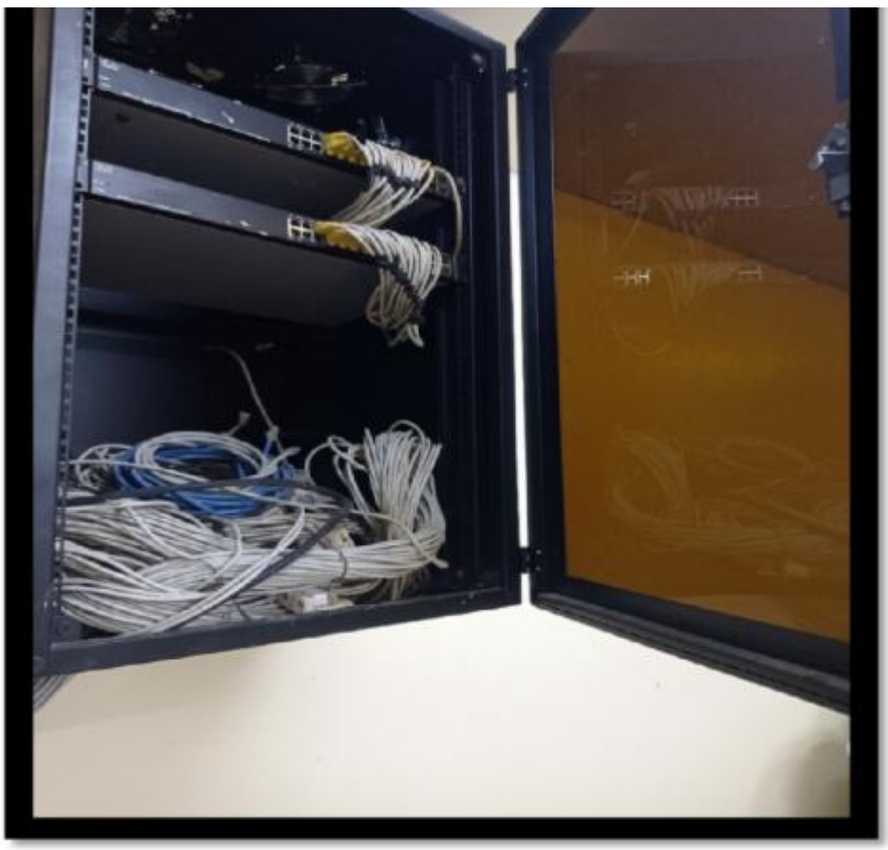


Max In: 28.28Mb; Average In: 16.91Mb; Current In: 14.09Mb;
Max Out: 5.41Mb; Average Out: 2.61Mb; Current Out: 2.74Mb;

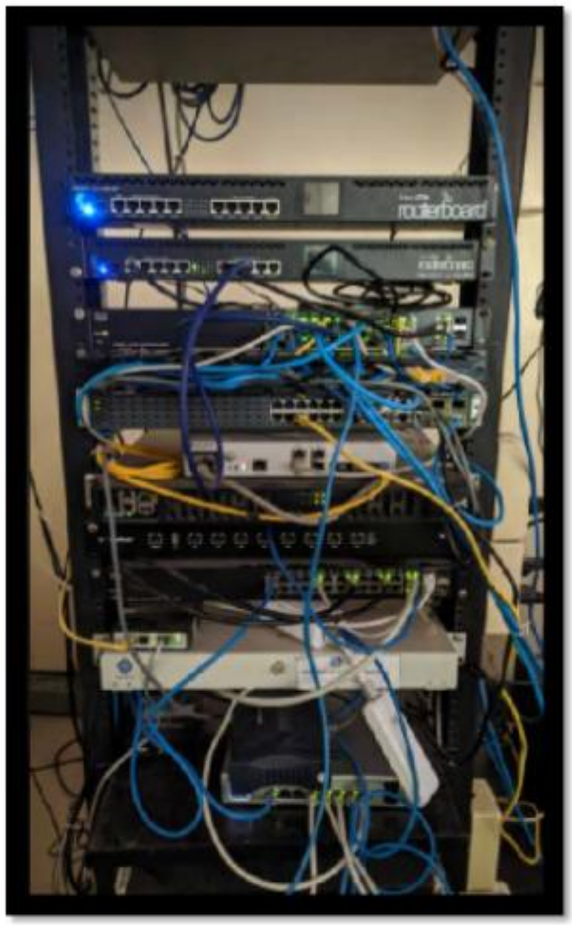
Pictures showing the server inside each computer laboratories










routerboard



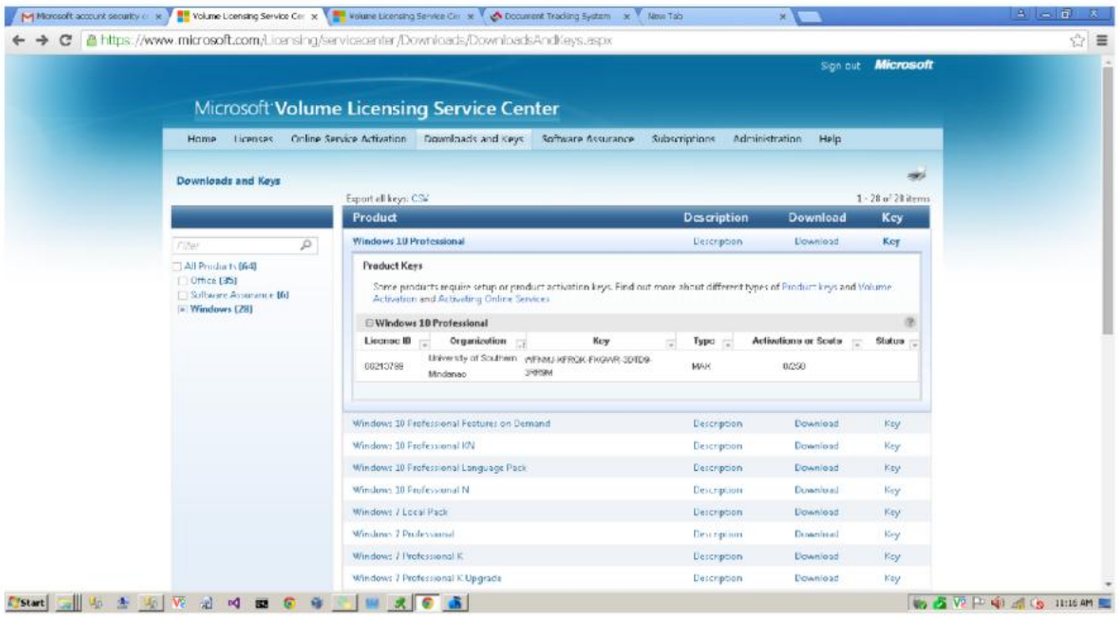
C. NON-COMMON USE OFFICE SUPPLIES, MATERIALS AND EQUIPMENT (NON-CSE)

Code (PAP)	Procurement Program/ Project	PMO/ End-User	Mode of Procurement	Schedule for Each Procurement Activity				Source of Funds	Estimated Budget (PhP)			Remarks (Brief Description of Program/Activity/Project)
				Advertisement/ Posting of IB/REI	Submission/ Opening of Bids	Notice of Award	Contract Signing		Total	MOOE	EO	
	Computer Supplies & Equipment	Various Units	Shopping	N/A	N/A	N/A	N/A	GoP	24,300.00		24,300.00	Computer Supplies of CBDEM
C-N-CSE-0001	Office Equipment	Various Units	Public Bidding	1st and 2nd Qtr	1st Qtr	2nd Qtr	3rd Qtr	GoP	14,291,307.60		14,291,307.60	Office Equipment of CBDEM, CHEFS and IMEAS
C-N-CSE-0002	ICT Equipment	Various Units	Public Bidding	1st Quarter	1st Qtr	2nd Qtr	3rd Qtr	GoP	4,298,292.40		4,298,292.40	ICT Equipment of CBDEM, CHEFS, an IMEAS
	Janitorial Equipment	IMEAS	NP-53.9-Small Value Procurement	N/A	N/A	N/A	N/A	GoP	185,000.00		185,500.00	Janitorial Supplies for IMEAS
C-N-CSE-0004	Laboratory Equipment	Various Units	Public Bidding	1st and 2nd Qtr	1st Qtr	2nd Qtr	3rd Qtr	GoP	31,083,400.00		31,083,400.00	Laboratory Equipment of CBDEM, CHEFS, IMEAS and KCC
C-N-CSE-0006	Buildings	IMEAS	Public Bidding	1st Quarter	1st Qtr	3rd Qtr	3rd Qtr	GoP	25,000,000.00		25,000,000.00	Construction of IMEAS Building Phar II
C-N-CSE-0002	IT Equipment and Accessories (Software)	Various Units	NP-53.9-Small Value Procurement						408,000.00	408,000.00		Software License
C-N-CSE-0008	Books	Various Units	NP-53.9-Small Value Procurement	1st Quarter	N/A	N/A	N/A	GoP	300,000.00	300,000.00		Supply and Delivery of Books of Various units
C-N-CSE-0009	Other Supplies	Various Units	NP-53.9-Small Value Procurement/Shopping/Quarter	Quarterly	N/A	N/A	N/A	GoP	822,000.00	822,000.00		Supply and Delivery of Other Suppli of Various units
C-N-CSE-0010	Subscription Expense	Various Units	NP-53.9-Small Value Procurement/Shopping/Quarter	Quarterly	N/A	N/A	N/A	GoP	63,200.00	63,200.00		Supply and Delivery of Subscriptic of Various units

ANNEX B

(University of Southern Mindanao) Procurement Monitoring Report as of December/31/2020

Code (PAP)	Procurement Project	PMO/ End-User	Is this an Early Procurement Activity?	Mode of Procurement	Actual Procurement Activity												ABC (PhP)			Contract Cost (PhP)			List of Invited Observers
					Pre-Proc Conference	Ads/Post of ITB	Pre-Bid Conf	Eligibility Check	Sub/Open of Bids	Bid Evaluation	Post Qual	Issuance of BAC Resolution Recommending Award	Notice of Award	Contract Signing	Notice to Proceed	Delivery/ Completion	Inspection & Acceptance	Status of Funds	Total	MOOE	CO	Total	MOOE	CO	
	RFQ 18040 S/D of Laboratory Materials	research		NP-53.9 - Small Value Procurement		7/7/2020												-54,850.00	199,500.00					2
	RFQ 18041 S/D of Construction Supplies & materials	PPDO		NP-53.9 - Small value Procurement		7/7/2020												134,850.00	230,100.00					2
	RFQ 18035 S/D of Construction Materials & Supplies	PPDO		NP-53.9 - Small Value Procurement		7/7/2020		8/10/2020	8/17/2020	8/24/2020	9/9/2020							422,850.00	455,100.00		214,750.00 1,000.00 53,000.00	214,750.00 1,000.00 53,000.00		2 2 2
	RFQ 18038 S/D of Office Equipment Copier			NP-53.9 - Small Value Procurement		7/8/2020												65,850.00	65,850.00					2
	RFQ 18042 S/D of Construction Materials & Supplies	PPDO		NP-53.9 - Small Value Procurement		7/8/2020												134,850.00	134,850.00					2
	RFQ 18036 S/D of Laboratory Supplies and Eqpt.	Research		NP-53.9 - Small Value Procurement		7/7/2020												199,500.00	199,500.00					2
	RFQ 18031 S/D of Laboratory Supplies & Eqpt.	Research		NP-53.9 - Small Value Procurement		7/7/2020			7/24/2020	7/27/2020	8/11/2020	8/19/2020						113,850.00	113,850.00		14,000.00	14,000.00		2
	RFQ 18032 Laboratory Analysis	Research		NP-53.9 - Small Value Procurement		7/7/2020												199,500.00	199,500.00					2
	RFQ 18033 S/D of Laboratory Supplies & Eqpt. (DNA lab)	Research		NP-53.9 - Small Value Procurement		7/7/2020			8/7/2020	8/13/2020	8/20/2020	8/28/2020						115,650.00	115,650.00		62,000.00 5,100.00	62,000.00 5,100.00		2 2
	RFQ 18064 S/D of Furniture	CBDEM		NP-53.9 - Small Value Procurement		7/14/2020			8/19/2020	8/27/2020	9/15/2020	9/25/2020						200,000.00	200,000.00		148,000.00	148,000.00		2
	RFQ 18036 S/D of Abroad Seeding Unit	CHEFS		NP-53.9 - Small Value Procurement		6/30/2020			8/19/2020	8/27/2020	9/16/2020	9/29/2020						220,000.00	220,000.00		80,000.00 120,000.00	80,000.00 120,000.00		2 2
	RFQ 17794 S/D of Electrical Supplies	PPDO		NP-53.9 - Small Value Procurement		8/18/2020												193,272.43	193,272.43					2
	RFQ 17112 Plagiarism Software	ODD		NP-53.9 - Small Value Procurement		9/5/2020					9/15/2020	11/13/2020						288,000.00	288,000.00		288,000.00	288,000.00		2
	RFQ 18012 repair & maintenance aircon 4pcs - CSA	PPDO		NP-53.9 - Small Value Procurement		9/5/2020			9/17/2020	11/11/2020	11/19/2020	11/25/2020						95,000.00	95,000.00		37,000.00 4,074.00	37,000.00 4,074.00		2 2
	RFQ 17105 Diesel	Property		NP-53.9 - Small Value Procurement		8/4/2020												722,479.99	722,479.99					2
	RFQ 17240 S/D of Office Equipment	KCC		NP-53.9 - Small Value Procurement		8/7/2020			8/19/2020	8/31/2020	9/15/2020	9/29/2020						375,000.00	375,000.00		300,000.00	300,000.00		2
	RFQ 17243 Subscription of MS Office 365/Adobe	KCC		NP-53.9 - Small Value Procurement		8/7/2020			8/19/2020	8/31/2020	9/15/2020	9/29/2020						210,000.00	210,000.00		210,000.00	210,000.00		2
	RFQ 17261 S/D of Ceiling Fan Metal Blade	CS		NP-53.9 - Small Value Procurement		8/6/2020			8/19/2020	8/31/2020	9/15/2020	9/29/2020						100,000.00	100,000.00		71,000.00	71,000.00		2
	RFQ 17261 S/D of Laboratory Supplies and Equipment	research		NP-53.9 - Small Value Procurement		8/6/2020			8/19/2020	8/31/2020	9/15/2020	9/29/2020						100,000.00	100,000.00		130,000.00	130,000.00		2


https://www.microsoft.com/Licensing/servicecenter/Downloads/DownloadsAndKeys.aspx
Sign out
Microsoft
Microsoft Volume Licensing Service Center
Home
Licenses
Online Service Activation
Downloads and Keys
Software Assurance
Subscriptions
Administration
Help
Downloads and Keys
Export all keys: CSV
1 - 28 of 28 items
Product
Description
Download
Key
Windows 10 Professional
Description
Download
Key
Product Keys
Some products require setup or product activation keys. Find out more about different types of Product keys and Volume Activation and Activating Online Services
Windows 10 Professional
License ID
Organization
Key
Type
Activations or Seats
Status
00210788
University of Southern Mindanao
MAK
0/250
Windows 10 Professional Features on Demand
Windows 10 Professional KN
Windows 10 Professional Language Pack
Windows 10 Professional N
Windows 7 Local Pack
Windows 7 Professional
Windows 7 Professional K
Windows 7 Professional K Upgrade
Start

S.3. Varied computer software is available.

College of Engineering and Information Technology
Department of Computing and Library Information Science

List of Software and Application

CE – 11

Microsoft Windows 10	
Microsoft Office 365	
Dev C++ 4.9.9.2	
NetBeans	
MySQL	
MSSQL Server Express	
Microsoft Visual Studio 2013 Community Edition	
Xampp 1.7.1	
WireShark	
Typing Master	
GIMP	
Mozilla Firefox	
Google Chrome	
Visual Studio Code	
Sublime Winrar	
Foxit PDF Reader	

List of Software and Application

CE – 12

Microsoft Windows 10	
Microsoft Office 365	
Dev C++ 4.9.9.2	
NetBeans	
MySQL	
MSSQL Server Express	
Microsoft Visual Studio 2013 Community Edition	
Xampp 1.7.1	
WireShark	
Typing Master	
GIMP	
Mozilla Firefox	
Google Chrome	
Visual Studio Code	
Sublime	
Winrar	
Foxit PDF Reader	

List of Software and Application

CE – 13

Microsoft Windows 10	
Microsoft Office 365	
Dev C++ 4.9.9.2	
NetBeans	
MySQL	
MSSQL Server Express	
Microsoft Visual Studio 2013 Community Edition	
Xampp 1.7.1	
WireShark	
Typing Master	
GIMP	
Mozilla Firefox	
Google Chrome	
Visual Studio Code	
Sublime	
Winrar	
Foxit PDF Reader	
LibreCAD	
Davinci Resolve	

List of Software and Application

CE – 16

Microsoft Windows 10	
Microsoft Office 365	
Dev C++ 4.9.9.2	
NetBeans	
MySQL	
MSSQL Server Express	
Microsoft Visual Studio 2019 Community Edition	
Xampp 1.7.1 WireShark	
Typing Master	
GIMP	
Mozilla Firefox	
Google Chrome	
Visual Studio Code	
Sublime	
Winrar	
Foxit PDF Reader	
LibreCAD	
Davinci Resolve	