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| **VISION** | A research university with culture of excellence in developing globally competitive and values-oriented leaders and professionals |
| **MISSION** | To provide research-based quality education, innovations, and collaborative extension services for sustainable national and international development. |
| **CORE VALUES** | H – Humility  E – Excellence  A – Accountability  R – Resiliency  T – Trustworthiness |
| **GOAL OF THE PROGRAM** | The BS in Information Technology graduates are expected to become globally competent, innovative, and socially and ethically responsible computing professionals engaged in life-long learning endeavors. They are capable of contributing to the country’s national development goals. |
| **PROGRAM DESCRIPTION** | The Bachelor of Science in Information Technology program includes the study of the utilization of both hardware and software technologies involving planning, installing, customizing, operating, managing and administering, and maintaining information technology infrastructure that provides computing solutions to address the needs of an organization. |
| **PROGRAM EDUCATIONAL OBJECTIVES** | At the end of the program, a graduate is expected to:   1. Contribute to economic development of the society through the application and management of Information Technology for business, government, service, and research. 2. Advance in their careers by applying Information Technology skills and by understanding evolving business and technological issues. 3. Continuing professional development through advanced studies and research. 4. Exhibit leadership qualities in their chosen career path. 5. Integrate Gender and Development basic concepts such as Gender mainstreaming, rights-based approach, and women’s empowerment in the awareness of the future teachers. |

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| **PROGRAM OUTCOMES IN RELATION TO PROGRAM EDUCATIONAL OBJECTIVES** | | | | | |
| **PROGRAM OUTCOMES** | **PROGRAM EDUCATIONAL OBJECTIVES** | | | | |
| **1** | **2** | **3** | **4** | **5** |
| 1. Articulate and discuss the latest developments in the specific field of practice. | x |  |  |  |  |
| 1. Effectively communicate orally and in writing using both English and Filipino. | x |  |  |  |  |
| 1. Work Effectively and independently in multi-disciplinary and multi-cultural teams. | x | x |  |  |  |
| 1. Apply knowledge of computing, science, and mathematics appropriate to the discipline. |  | x |  |  |  |
| 1. Preserve and promote Filipino historical and cultural heritage. | x |  |  |  |  |
| 1. Analyze complex problems, and identify and define the computing requirements needed to design and appropriate solution. |  | x | x |  |  |
| 1. Apply computing and other knowledge domains to address real-world problems. |  | x |  |  |  |
| 1. Design and Develop computing solutions using a system-level perspective. |  | x |  |  |  |
| 1. Utilize modern computing tools. |  | x |  |  |  |
| 1. Apply knowledge of computing, science, and mathematics appropriate to the discipline. |  | x |  |  |  |
| 1. Understand best practices and standards and applications of networking. |  | x |  |  |  |
| 1. Analyze complex problems, and identify and define the computing requirements appropriate to its solution. |  |  | x |  |  |
| 1. Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of network technologies. |  | x | x |  |  |
| 1. Design, implement, and evaluate computer-based systems, processes, components, or program to meet desired needs and requirements under various constraints. |  | x |  |  |  |
| 1. Integrate IT-based solutions into the user environment effectively. |  |  | x |  |  |
| 1. Apply knowledge in computer network through the use of current techniques, skills, tools and practices necessary for the IT profession. |  |  | x | x |  |
| 1. Function effectively as a member or leader of a development team recognizing the different roles within a team to accomplish a common goal. |  |  |  |  |  |
| 1. Assist in the creation of an effective ICT network platform. |  | x |  |  |  |
| 1. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing, presentations, and clear instructions. |  |  |  |  |  |
| 1. Analyze the local and global impact of computing information technology on individuals, organizations, and society. |  |  | x | x |  |
| 1. Understand professional, ethical, legal, security and social issues and responsibilities in the utilization of information technology. |  |  | x | x |  |
| 1. Recognize the need for and engage in planning self-learning and improving performance as a foundation for continuing professional development. |  |  |  |  |  |
| 1. Graduates of the College participate in the generation of new knowledge and/or research and development of new knowledge. |  |  | x | x | x |

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| **COURSE INFORMATION** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE CODE:**  **IT 311** | | **CLASSIFICATION:**  MAJOR | | | | | | | | | | | | **COURSE PRE-REQUISITE:**  IT 213 – NETWORKING I | | | | | | | | | | | | | |
| **COURSE TITLE:**  **NETWORKING II** | | **COURSE SCHEDULE:**  BSIT 3-4 (M – 8:00 – 9:00, T- 10:00-1:00, W – 2:00 – 3:00)  BSIT 3-5 (M – 2:00 – 3:00, T - 8:00 – 9:00, F - 7:00 – 10:00) | | | | | | | | | | | | **CREDIT:**  3 UNITS; 5hrs/week (Lecture: 2hrs; Lab: 3hrs) | | | | | | | | | | | | | |
| **COURSE SYLLABUS** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE DESCRIPTION** | | This course provides the student with the detailed operation and configuration of network routers and data communication switches. The course begins with IP subnetting and understanding the importance of network systems. It also covers the design, configuration, and deployment of switches in utilizing VLANs, trunking, and port aggregation. Likewise, it also includes the connection and selection of routing and switching equipment for a given network application, WAN, and load balancing in routers and switches.  The aim of this course is that the students will be able to acquire a deep, solid knowledge and practical skills in internetworking and network equipment, in particular IP routers, routing, LAN-switches and WAN technologies. The intention is also that the student will have the proficiency to work self-confidently with planning, configuration and maintenance of Internet-connected local networks in small or larger office environment. | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE OBJECTIVES** | | | **PROGRAM OUTCMES** | | | | | | | | | | | | | | | | | | | | | | | | |
| At the end of the course, the students should be able to: | | | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | | r | s | t | | u | v | w |
| 1. Teach students to use subnets and routing protocols, to design and to configure a router network with proper IP addressing scheme. | | | I | I |  | I |  |  |  | I |  | I | I |  | I | I |  |  |  | |  |  |  | |  |  |  |
| 1. Provide student with deep knowledge to design and configure a switched network and VLANs. Utilize the concepts of an Access Control List in configuring a router for ACLs. | | |  | I |  |  |  | I |  |  |  |  | I |  | I | I | I |  |  | | I |  |  | |  |  |  |
| 1. Provide student to learn the basic concepts of Wide Area Networks and WAN components, and integrate the knowledge of subnets, routers, switches, VLANs, ACLs and WANs, into an understanding of modern digital computer networks. | | |  | I | I |  |  | I |  | D |  | P |  | D |  | I | D |  | D | |  |  |  | |  |  |  |
| Legend: **I** – Introductory **D**- Demonstrated **P** – Practice | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CONTENT OUTLINE AND TIME FRAME** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **TIME FRAME** | **COURSE CONTENT / SUBJECT MATTER** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 1 | Orientation / Introduction on the Course and Overview on the VMGO, Orientation on Gender and Development/ Gender Sensitivity, Overview of Computer Networks and  Integration of SDG'8 No. 4 (Quality Education), SDG No. 5 (Gender Equality) SDG No. 7, (Affordable and Clean Energy), SDG No. 8 (Decent  work and Economic Growth), SDG No. 9 (Industry, Innovation and Infrastructure), SDG No. 10 (Reduced inequalities), SOG No. 11  (Sustainable Cities and Communistic), SDG No. 16 (Peace, Justice and Strong Institutions) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 2-3 | Fundamentals of WANs and IP Routing  Subnetting of Network System (SDG No. 4, 8, 9 & 11) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 4 | Variable Scale Subnet Mask (SDG No. 4) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 5 | Laboratory Session | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 6-7 | Understanding and Configuring VLAN and STP (SDG No. 9 & 11) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 8 | Laboratory Session | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Week 9** | Midterm Examination | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 10 | IP Version 6 (SDG No. 9, 11, 12, & 17) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 11-12 | Routing Technologies  Firewall setup (SDG No. 8, 9, 11, 12 & 17) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 13 | Switching Technologies (SDG No. 11 & 17) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 14 | Laboratory Session | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 15 | WAN Technologies (SDG No. 4 & 9) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 16 | Server Load Balancing (SDG No. 4 & 9) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Week 17 | Presentation of Final Project | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Week 18** | Final Examination | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE OUTCOMES** | | | | | | | | | | | | | | | | **COURSE OBJECTIVES** | | | | | | | | | | | |
| A student completing this course should be able to: | | | | | | | | | | | | | | | | **1** | | | | **2** | | | | **3** | | | |
| 1. Articulate the concept of network systems. | | | | | | | | | | | | | | | | x | | | |  | | | |  | | | |
| 1. Discuss and argue about the importance of a network system and its applications in our present and future generations. | | | | | | | | | | | | | | | | x | | | | x | | | |  | | | |
| 1. Plan and design an IP network by applying subnetting skills. | | | | | | | | | | | | | | | |  | | | | x | | | |  | | | |
| 1. Explain how subnetting segments a network to enable better communications. | | | | | | | | | | | | | | | | x | | | |  | | | | x | | | |
| 1. Explain how to create a flexible addressing scheme using variable length subnet masking (VLSM). | | | | | | | | | | | | | | | | x | | | |  | | | | x | | | |
| 1. Explain the role of trunking VLANs in a converged network. | | | | | | | | | | | | | | | |  | | | | x | | | | x | | | |
| 1. Configure VLANs on the switches in a converged network topology. | | | | | | | | | | | | | | | |  | | | |  | | | |  | | | |
| 1. Learn how the Internet work with IPv6 addressing, with Provider Assigned (PA) and Provider Independent (PI) global unicast addresses. | | | | | | | | | | | | | | | |  | | | |  | | | | x | | | |
| 1. Analyze the role of static and dynamic routing protocols and place these protocols in the context of modern network design. | | | | | | | | | | | | | | | | x | | | |  | | | | x | | | |
| 1. Configure basic RIPv2, single area OSPF, and EIGRP operations in a small-routed network. | | | | | | | | | | | | | | | |  | | | | x | | | | x | | | |
| 1. Use and execute different commands in routers and switches using remote administration. | | | | | | | | | | | | | | | |  | | | |  | | | | x | | | |
| 1. Install and configure routers and switches for interconnecting different network systems. | | | | | | | | | | | | | | | | x | | | |  | | | | x | | | |
| 1. Configure and administer inter-switch VLANs on Ethernet switches and activate inter-VLAN routing on router. | | | | | | | | | | | | | | | | x | | | | x | | | | x | | | |
| 1. Identify the key characteristics of common wide area networking (WAN) configurations and technologies like Frame Relay and Point to Point Protocol (PPP). | | | | | | | | | | | | | | | |  | | | |  | | | | x | | | |
| 1. Use of load balancing in routers and switches used in finance, voting, health and medicine, business, environment, arts and design, and recreation. | | | | | | | | | | | | | | | |  | | | | x | | | | x | | | |

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| **DESIRED LEARNING OUTCOMES (DLO)** | **COURSE CONTENT / SUBJECT MATTER** | | **TEXTBOOK /**  **REFERENCES** | | | **TEACHING & LEARNING ACTIVITIES (TLAs)** | **ASSESSMENT OF TASK (AT)** | | **RESOURCE MATERIALS** | **TIME TABLE** |
| Articulate the concept of network systems. | **Course Orientation**   * Introduction to the Course * Overview on the VMGO * Topics Discussion on Gender and Development Basic Concepts * Overview of Computer Networks   + Network Hardware and Software, different Network System Used, and advantages of a Network System | | - CMO 25 series of 2015 - SSC Student Handbook  - Kurose, J. F. & Ross, K. W. (2022). Computer Networking*:* A Top-Down Approach, 8th Edition. Pearson Education. ISBN 978-0-13-668155-7. | | | * Lecture and discussion | * Quizzes * Assignment * Recitation | | * CHED CMOs * Student and University Manuals * University Memorandums * Books * Modules (pdf) * Online sources | 1 week |
| Discuss and argue about the importance of a network system and its applications in our present and future generations. | Fundamentals of WANs and IP Routing  Subnetting of Network System   * Subnetting Refresher, advantage of Subnetting, and Subnetting Applications | | - Kurose, J. F. & Ross, K. W. (2022). Computer Networking*:* A Top-Down Approach, 8th Edition. Pearson Education. ISBN 978-0-13-668155-7. | | | * Lecture and discussion * Group Activity | * Quizzes * Assignment * Recitation | | * Books * Modules (pdf) * Online sources | 2 weeks |
| Explain how to create a flexible addressing scheme using variable length subnet masking (VLSM). | Variable Scale Subnet Mask  Slash Notation and Subnet Mask, Calculation and Computing of Subnets, and Implementation of Subnetting | | - Kurose, J. F. & Ross, K. W. (2022). Computer Networking*:* A Top-Down Approach, 8th Edition. Pearson Education. ISBN 978-0-13-668155-7.  - Michael Dooley & Timothy Rooney (2021). IP address Management. 2nd Edition. IEEE Press Wiley | | | * Lecture and discussion * Homework | * Quizzes * Seat Work * Recitation | | * Books * Modules (pdf) * Online sources | 1 week |
| Explain how subnetting segments a network to enable better communications. | Laboratory Session | |  | | | * Lecture and discussion * Homework * Group Activity | Lab activity | | * Guided activity sheet * Internet connectivity | 1 Week |
| Explain the role of trunking VLANs in a converged network. | Understanding and Configuring VLAN and STP  Overview of Ethernet Virtual LAN, Configuration Guidelines and Restrictions, Spanning Tree Protocol Concepts, and Configuring VLAN | | - Michael Dooley & Timothy Rooney (2021). IP address Management. 2nd Edition. IEEE Press Wiley  - James Aweya (2021). IP Routing Protocols: Fundamentals and Distance-Vector Routing Protocol. CRC Press. | | | * Lecture and discussion   Individual Activity | * Quizzes * Seat Work * Recitation | | * Books * Modules (pdf) * Online sources * Switch device | 2 Weeks |
| Configure VLANs on the switches in a converged network topology. | Laboratory Session | |  | | | * Lecture and discussion * Homework * Group Activity | * Lab activity | | * Guided activity sheet * Internet connectivity * Internetworking device | 1 Week |
| **MIDTERM EXAMINATION** | | | | | | | | | | |
| Learn how the Internet work with IPv6 addressing, with Provider Assigned (PA) and Provider Independent (PI) global unicast addresses. | IP Version 6   * Fundamentals of IP Version 6, IPv6 Addressing and Subnetting, Implementing IPv6 Addressing and Routers, and Implementing IPv6 Routing | | - Rick Graziani. (2019). IPv6 Fundamentals: A Straightforward Approach to Understanding IPv6, 2nd Edition. Cisco Systems, Inc. | | | * Lecture and discussion * Group Activity | * Quizzes * Assignment * Seat Work * Recitation | | * Books * Modules (pdf) * Online sources * Network devices | 1 Week |
| Analyze the role of static and dynamic routing protocols and place these protocols in the context of modern network design.  Configure basic RIPv2, single area OSPF, and EIGRP operations in a small-routed network | Routing Technologies   * Router configuration, Understanding and Implementing OSPF for IPv4, Understanding and Implementing EIGRP for IPv4, and Troubleshooting IPv4 Routing Protocols   Firewall setup | | - James Aweya (2021). IP Routing Protocols: Fundamentals and Distance-Vector Routing Protocol. CRC Press.  - Tyler Hart. (2019). Networking with Mikrotik: MTCNA Study Guide. 2nd Edition. Copyright by Manito Networks, LLC. ISBN: 9781973206354. | | | * Lecture and discussion * Homework * Group Activity | Lab activity | | * Guided activity sheet * Internet connectivity * Router device | 2 Weeks |
| Use and execute different commands in routers and switches using remote administration. | Switching Technologies  Using Command Line Interface and Configuring Basic Switch Management | | - Jill West, Jean Andrews & Tamara Dean (2019). Network+ Guide to Network. 9th Edition. Engage Learning. ISBN 978-1-3375-6933-0. | | | * Lecture and discussion * Group Activity | * Quizzes * Assignment * Seat Work * Recitation | | * Books * Modules (pdf) * Online sources * Switch device | 1 Week |
| Install and configure routers and switches for interconnecting different network systems. | Laboratory Session | |  | | | * Lecture and discussion * Homework * Group Activity | Lab activity | | * Guided activity sheet * Internet connectivity * Internetworking devices | 1 Week |
| Identify the key characteristics of common wide area networking (WAN) configurations and technologies like Frame Relay and Point to Point Protocol (PPP). | WAN Technologies  Understanding Point-to-Point Protocol, Configuring Generic Routing Encapsulation, and Quality of Service (QoS) | | - Jill West, Jean Andrews & Tamara Dean (2019). Network+ Guide to Network. 9th Edition. Engage Learning. ISBN 978-1-3375-6933-0.  - Kurose, J. F. & Ross, K. W. (2022). Computer Networking*:* A Top-Down Approach, 8th Edition. Pearson Education. ISBN 978-0-13-668155-7. | | | Lecture and discussion | * Quizzes * Assignment * Recitation | | * Books * Modules (pdf) * Online sources * Wireless devices | 1 Week |
| Use of load balancing in routers and switches used in finance, voting, health and medicine, business, environment, arts and design, and recreation. | Server Load Balancing  Basic and Advanced Concepts, Network Design and Load Balancers, and Global Server Load Balancing | | - 3G E-Learning (2022). Computer Networks and Security. 2nd Edition. New York. USA. ISBN: 978-1-98465-893-7. | | | * Lecture and discussion * Group Activity | * Quizzes * Assignment * Actual demonstration | | * Guided activity sheet * Internet connectivity * Network device | 1 Week |
|  | **Presentation of Final Project** | |  | | | Group activity | Rubric | | PPT/Slides presentation | 1 Week |
| **FINAL EXAMINATION** | | | | | | | | | | |
| **COURSE REQUIREMENTS**   * Quizzes (Short and Long Quizzes) and Online Quiz * Major Examination * Class Participation (F2F) * HOMEWORK activity * Final Output (Case Study by group) | | | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **GRADING SYSTEM/ STUDENT PERFORMANCE EVALUATION**   |  |  | | --- | --- | | **Theory** (35%) | **Laboratory** (65%) | | Examination - 30%  Recitation and Assignment - 20%  Project (Case Study) - 20% Quizzes - 20%  Attendance - 10%  ----- 100% | Project - 35%  Performance - 35%  Attitude - 20%  Attendance - 10%  ----------  100% |   Computation of Semester Grade:   |  | | --- | | Semester Grade = (Midterm + Final) / 2 | | | | | | | |
| **TEACHING METHODS & TECHNIQUES**   * Lecture and Class Discussion * Demonstration * Online Video Streaming * Brainstorming * Interactive Learning * Hands-on labs and simulations * Cooperative Learning * Guided Design and development of Project Specification * Case Study * Group/Individual Term Papers * Group/Individual Reports * Film/Video Presentation * Learning Modules | | | | | **CLASS POLICIES**  For face-to-face classes, the following policies shall be observed:   1. Students are expected to attend face-to-face classes regularly. 2. Students are expected to actively participate in class discussions and activities. 3. Surprised short quiz will be administered, on or before the start of classes. 4. Students are expected to be in the network laboratory room 10 minutes before the start of lab activity, students who are late 10 minutes after the start will not be accommodated. 5. Do the assigned reading and homework (when it is assigned). 6. Accept points of view that are different from your own.   Come, see me as soon as you have difficulty with any of the material that we cover in class – do not wait until it is too late! | | | | | |
| **REFERENCES**     1. **BOOKS**  * 3G E-Learning (2022). Computer Networks and Security. 2nd Edition. New York. USA. ISBN: 978-1-98465-893-7. * Kurose, J. F. & Ross, K. W. (2022). Computer Networking*:* A Top-Down Approach, 8th Edition. Pearson Education. ISBN 978-0-13-668155-7. * Michael Dooley & Timothy Rooney (2021). IP address Management. 2nd Edition. IEEE Press Wiley. * James Aweya (2021). IP Routing Protocols: Fundamentals and Distance-Vector Routing Protocol. CRC Press. * Jill West, Jean Andrews & Tamara Dean (2019). Network+ Guide to Network. 9th Edition. Engage Learning. ISBN 978-1-3375-6933-0. * Rick Graziani. (2019). IPv6 Fundamentals: A Straightforward Approach to Understanding IPv6, 2nd Edition. Cisco Systems, Inc. * Tyler Hart. (2019). Networking with Mikrotik: MTCNA Study Guide. 2nd Edition. Copyright by Manito Networks, LLC. ISBN: 9781973206354.  1. **E-SOURCES**  * <https://www.sangoma.com/how-ip-routing-works/> * <https://www.ibm.com/docs/protocol-tcpip-routing/> * <https://www.juniper.net/documentation/en_US/junos/topics/task/configuration/layer-2-services-stp-configuration-vstp.html> * <https://help.mikrotik.com/docs/display/ROS>  1. **OTHER REFERENCES**  * CMO 25 series of 2015 * SSC Student Handbook * Philippine Disaster Reduction and Management Act (RA 10121) * Perez, A. (2021). Gender and Development Concepts and Definition. Retrieved from https://www.academia.edu/43491817/Gender\_and\_Development\_Concepts\_and\_Definition   **FLEXIBILITY**  The course expects that the students will be able to acquire a deep knowledge and skills in the operation and configuration of network routers and data communication switches. This course also includes IP routing, LAN-switches and WAN Technologies, and Load Balancing. The reference materials for this course are not limited to those listed above. The students may use other learning resources that they deemed appropriate and relevant. Reliable and accurate internet materials can also be used. The topics covered in this syllabus may also be altered depending on the needs of the students. The order and the phasing of the topics may also vary subsequently to the intensity of deliberations or discussions that may take place. Other unavoidable circumstances may also affect the phasing and completion of the course. In such cases, necessary adjustments and proper arrangements with the students shall be made to hold makeup classes to meet the target of the course. | | | | | | | | | | |
| **INSTRUCTOR/PROFESSOR INFORMATION** | | | | | | | | | | |
| **NAME** | | KEVIN C. ASTILLERO | | **EMAIL** | | | | kevin.astillero@sorsu.edu.ph | | |
| **CONTACT NUMBER** | | 09773195836 | | **CONSULTATION** | | | | Monday – Wednesday, 4:00 - 5:00 pm at Faculty Room  Friday, 4:00 - 5:00 pm at Faculty Room | | |

Prepared by: Recommending Approval: Approved:

**ENGR. RUEL G. GRAFIA, MSIT ENGR. RUEL G. GRAFIA, MSIT ENGR.REY C. RODRIGUEZA, MIT MA. ELENA C. DEMDAM, RGC**

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**KEVIN C. ASTILLERO**

Faculty Name