**Course Syllabus**

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| **Course Component**  | Professional Education |
| **Course Code** | Educ 4 |
| **Course Name** | **Technology for Teaching and Learning 1** |
| **Pre-requisite** |  |
| **Course Credits** | **3 units** |
| **Contact Hours/week** | **3 hours/week** |
| **Academic Year** |  |
| **Course & Year** |  |
| **Class Schedule** |  |
| **Course Description** | This introductory course explores basic knowledge, skills and values in the use of technology for teaching and learning. It includes ICT policies and safety issues, media and technology in various content areas, learning theories and principles in the use and design of learning lessons, teaching-learning experiences and assessment tasks that utilize appropriate traditional and innovative technologies with social, ethical and legal responsibility in the use of technology tools and resources. |
| **Course Objectives****Common to Teacher Education** | **Program Outcomes** |
| **BSEd-Mathematics** |
| At the end of the unit, the students must have: |

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| 1. Explained ICT policies and safety issues as they impact on the teaching-learning process
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| 1. Identified learning theories and principles applied in the design and development of lessons through appropriate media and technologies for teaching and learning
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| 1. Integrated media and technology in various content areas
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| 1. Formulated teaching-learning experiences and assessment tasks using appropriate and innovative technologies
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| 1. Demonstrated social, ethical and legal responsibility in the use of technology tools and resources
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| **Methodologies/Strategies/****Techniques** | Lecture, Group/Class Discussion, Question and Answer, Oral recitations, Practical Applications |
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| **COURSE OUTLINE** |  |
| **CONTENT/TOPICS** | **Timeframe** | **Remarks** |
| Orientation of the coursePresentation of the syllabusOrientation of classroom policies on grades, attendance and course requirements**Pretest** | 1. **day**
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| **Unit 1- Introduction to Technology for Teaching and Learning**1. Basic Concepts to be defined:
2. Technology
3. Information and Communication
4. Educational Technology
5. Technology, Media and Learning
6. Instructional System and Instructional technology
7. Technology Tools
8. Roles of ICT in Teaching for Learning

**Unit 2. ICT Policies and Safety Issues in Teaching and Learning**1. ICT National or International Policies that are applicable to teaching and Learning
2. Safety Issues in ICT
3. Uses of ICT Policies in the Teaching and Learning Environment

**Unit 3. Theories and Principles in the Use and Design of Technology Driven Learning Lessons**1. Learning Theories and Principles in:
2. Dale’s Cone of Experience (with equal attention given to both the Conventional Technology and the Innovative and emerging Technology for Teaching)
3. TPACK (Technology, Pedagogy, and Content Knowledge)
4. ASSURE Model (Analyze learners, State Objectives, Select Methods, Media & Materials, Utilize Media & Materials, Require Learner Participation, Evaluation and revise)
 | **Prelims** **Week 1-5** |  |
| **Unit 4. ICT in Various Content Areas**1. 21st Century Skills

Digital Literacy Skills* Media
* Information
* ICT literacy
1. Instructional Design Models
* Gagne’s Nine Events
* Bloom’s Revised Taxonomy
* ADDIE
* Merill’s Principles of Instruction
1. Technology Enhanced Teaching lesson exemplars
2. ICT and Conventional Learning materials to enhance teaching-Learning
3. Digital learning resources
4. Google Docs
5. Survey monkey
6. Others
7. Conventional Learning resources
8. Flip charts
9. Realia
10. Others
11. Distance Learning
 | **Midterm Week 6-10** |  |
| 1. Technology Tools in a Collaborative Classroom Environment
2. Relevance and Appropriateness in the Use of Technology in Teaching and Learning
3. Principles in Selecting Instructional Materials based on their Appropriateness and Feasibility
* Appropriateness (Target Learners and Instruction)
* Authenticity (Dependable)
* Interest
* Cost (Economy)
* Organization and balance

**Unit 5. Innovative Technologies for Teaching-Learning and Assessment Task**1. ICT and Assessment in Learning
2. Assessment tools
3. Tools in evaluating appropriate assessment tools (ex. Checklist, rating scale)
4. Technology-enhanced lesson using the ASSURE as Technology-Integration Model
 | **Semi-Finals Week 11-14** |  |
| **Unit 6. Social, Ethical and Legal responsibilities in the Use of Technology Tools and Resources**1. Digital Citizenship
2. Social, Ethical and Legal responsibilities in the Use of Technology Tools and Resources by Teachers
3. Intellectual Property Rights Applicable to the Educational Setting: Copyright and Related Rights Copyright Law (Part IV)
4. Digital Safety Rules
5. Cyberbullying
6. Netizens in Cyberspace Active Citizenship
7. Netiquette (social conventions online)
8. Educational Sites and Portals
9. Online Communities of Learning
10. Online Resources
11. Collaborative Projects
12. Technology Tools for Collaborative Work
 | **Finals Week 15-18** |  |

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| **Integration of Values** |  |
| **Course Requirements** | **Learning Task**1. Attendance and Active Participation in class discussion/group activities
2. e-Portfolio
3. Projects submitted on time
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| **Grading System** | Major Exams 20%Project 40%Class Standing 40%\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 100 % |

**References**

**Main Textbook:**

Lucido, P. &Corpuz, B. (2012).*Educational technology 2*. Quezon City, PH: Lorimar Publishing Co.

**Suggested Readings:**

Abushakara, N. (2016). Netiquetter: Modern manners for a modern world.The ultimate guide to online etiquette. Create Space Independent Publishing Platform

Anderson, J. (2010). ICT Transforming Education.A regional Guide. UNESCO Bangkok Asia and Pacific Regional Bureau for Education

Angelo, T. & Cross, K. P. (1993).classroom Assessment techniques 2nded. A Handbook for College Teachers

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Diaz, C.G. and Declaro, R.A. (2013).UNESCO training guide on ICT multimedia integration for teaching and learning. Retrieved from creative Commons License

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[www.collegeview.com/articles/artice/smart-students-in-a-digital-world](http://www.collegeview.com/articles/artice/smart-students-in-a-digital-world)

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<http://www/ascd.org/publications/books/102112/chapters/What_is_Project-Based_Multimedia_Learning%C2%A2.aspx>

<http://www.emergingedtech.com/2014/05/20-excellent-free-tools-for-interactive-collaboration-experiences-in-the-classroom/>

<http://www.educatorstechnology.com/2012/06/33-digital-skills-every-21st-century.html>

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Tuffey, D. (2014). Email etiquette: Netiquette for the information age: Altiora Publications

TPACK in two minutes <https://www.youtube.com/watch?v=FagVQlZELY>

UNESCO (2013). Training Guide on ICT Multimedia Integration for Teaching and Learning, pp. 60-63

Williams, M. (2000).Integrating technology into teaching and learning: An Asia Pacific perspective. Singapore: Prentice Hall

[www.ipophil.gov.ph/images/Patents/IRRs/RepublicAct8293.pdf](http://www.ipophil.gov.ph/images/Patents/IRRs/RepublicAct8293.pdf)

Our ICT <http://www.ourict.co.uk/> Ten Best Assessment Tools (Posted April 1, 2015) Retrieved from: <http://www.ourict.co.uk/formative-assessment-tools/>

Documents:

* the Philippines ICT Roadmap
* DepEd Five-Year Information and Communication Technology for Education Strategic Plan (DepEd ICT4E Strategic Plan) Executive Summary
* SEAMEO INNOTECH (2010) The Report on the Status of ICT Integration in Education in Southeast Asia
* K to 12 Curriculum Guides (DepEd, 2012)
* Senior High School Curriculum Guides retrieved from <https://drive.google.com/file/d/0D8xBBYUc2V91dVJQQXdVMFVDS2C/edit>

**Designed by: Approved by:**

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