



Information and Communications Technology

GRADE LEVEL: 6

SCHOOL YEAR: 2026-2027

TEACHER: Mr. Adrian “Ian” Crisostomo, Jr.

EMAIL: acrisostomo@dishs.tp.edu.tw

COURSE DESCRIPTION/OBJECTIVES:

This course develops students’ knowledge and skills in computer fundamentals, digital design, web development, productivity tools, and robotics through hands-on and project-based activities. Students will use relevant technologies such as Microsoft Office Applications, Google Suite, AI Artificial Intelligence (AI) tools, Canva Suite, and web development tools like Notepad++, while adapting to new applications and technologies as they evolve.

The course emphasizes responsible, safe, ethical, and effective use of technology, including digital citizenship, online safety, privacy, appropriate communication, and respect for digital content and intellectual property. Students will develop creativity, problem-solving, collaboration, and critical-thinking skills while applying technology appropriately in school and real-world situations.

PRIMARY TEXTBOOK & OTHER RESOURCES:

TEXTBOOKS AND WEBPAGE/SITE:

- Level Up Through Digital Discoveries: McGraw-Hill
- mBot Discovery: Learn & Teach Robotics in 12 Fun Lessons, 2018 by David
- Web Browsers (Google, Firefox, and Microsoft Edge)
- Google labs
- Makebock (mBot)

APPLICATIONS:

- Microsoft Office Applications
- Google Suites
- Canva Suite
- Artificial Intelligence (AI)
- Web development (Notepad++)
- Makebock (mBot)

ASSESSMENT:

The quarterly grade will be awarded for all student work based on the following criteria:

Class participation, Homework, Hands-on/practical Quizzes and Tests- 1/1 of quarterly grade

Major Projects and Assignments- 1/1 of quarterly grade

Quarterly Exams- 1/1 of quarterly grade

ADDITIONAL REMINDER AND INFORMATION:

Required Student Materials :

- e-Portfolio /photos/document Pencil, eraser
- Paper/Notebook
- USB Flash drive

Classroom Expectations:

1. Be on time to class; be seated before the bell rings.
2. Wear your uniform neatly.
3. Use English at all times.
4. Come prepared with books, assignments, and supplies and without gum, food, or drink (a sealable water bottle is okay).
5. Be respectful of others (especially when speaking), and of school property.
6. Do your best and participate.
7. Ask permission before leaving the class; a take hall pass.
8. Wait for the bell to ring before you leave class.
9. Always follow the Computer Code of Ethics | [IT Policy for Students](#)

Discipline:

Verbal warning, second reminder (if needed)

Write-Up and then refer to the Discipline Office.

Parent-Teacher conference.

Monitor During Class:

On-going Assessment(s)

Review/check the student's work on Flash drive/google classroom

Student Activity Checklist/Score

WEEKLY SCHEDULE

First Quarter Tentative Course Content

COURSE GOAL

This course aims to develop students into **responsible, ethical, and confident digital learners** who can use technology effectively, creatively, and responsibly. Through ICT orientation, computer ethics, productivity applications, Google Workspace, computer history, and introductory Artificial Intelligence, students will develop essential digital skills while practicing the **D'TORCH values**:

- **T – Truthful:** Practice honesty, integrity, proper attribution, and responsible use of digital information, technology, and Artificial Intelligence.
- **O – Organized:** Develop effective digital organization, file management, productivity, and responsible use of Microsoft Office and Google Workspace applications.
- **R – Reflective:** Evaluate their digital habits, technology use, online behavior, and the impact of AI and other technologies on themselves and others.
- **C – Courageous:** Explore new technologies, solve problems, adapt to emerging digital tools, and confidently learn from challenges and mistakes.
- **H – Helpful:** Use technology to collaborate, communicate, create, and support others while promoting a safe, respectful, and positive digital community.

By the end of the course, students will be able to **use technology responsibly, apply essential digital skills, understand the evolving role of computers and AI, and make ethical and informed decisions as responsible digital citizens.**

Week & Date	Topics / Projects / Assessments
Week 1 Aug 10 - 14	Monday Class Preparation ~ Student Holiday Tuesday Morning Assembly Friday Opening Mass & Assumption of Our Lady 8:00 ICT Orientation, Observation, and the Computer Ethics (IT Policy for Students) Computer Generations Learning the Basics (Part 1)
Week 2 Aug 17 - 21	Computer Generations Learning the Basics (Part 2)
Week 3 Aug 24 - 28	Microsoft Office Applications Learning the Basics (Part 1)
Week 4 Aug 31 - Sep 4	Microsoft Office Applications Learning the Basics (Part 2)
Week 5 Sep 7 - 11	Google Suite Applications Learning the Basics (Part 1)
Week 6 Sep 14 - 18	Google Suite Applications Learning the Basics (Part 2)
Week 7	T-W-Th Pre-Exam Days

Sep 21 - 25	Friday Moon Festival ~ Public Holiday Artificial Intelligence (AI) Learning the Basics
Week 8 Sep 28 - Oct 2	Monday Confucius' Birthday ~ Public Holiday Thursday Major Exams Day 1 Friday Major Exams Day 2
Week 9 Oct 5 - 9	Monday Record Day ~ Student Holiday T-W-Th Teachers Conference ~ Student Holiday Friday Double 10 Day ~ Public Holiday

Second Quarter Tentative Course Content

COURSE GOAL

This course aims to develop students' creativity, digital literacy, and responsible use of technology through **Canva, digital design, photography, image editing, video production, audio, and multimedia storytelling**. Students will learn to communicate ideas effectively through digital media while practicing the **D'TORCH Student Learning Outcomes (SLOs): Truthful, Organized, Reflective, Courageous, and Helpful**.

By the end of the course, students will be able to:

- **Truthful** – Create authentic and responsible digital content, respecting copyright, privacy, proper attribution, and ethical media practices.
- **Organized** – Plan, design, edit, and manage digital media projects systematically using appropriate tools and production workflows.
- **Reflective** – Evaluate their creative work, recognize areas for improvement, and thoughtfully reflect on their growth as digital creators.
- **Courageous** – Explore new digital tools, express original ideas confidently, take creative risks, and present their work to an audience.
- **Helpful** – Use digital media skills to communicate meaningful messages, collaborate with others, and create content that positively contributes to the school and wider community.

Through projects such as **digital designs, presentations, infographics, photography, image editing, videos, audio storytelling, and a final media showcase**, students will develop the skills and character needed to become **creative, responsible, ethical, and purposeful digital citizens**.

Week & Date	Topics / Projects / Assessments
Week 1 (10) Oct 12 - 16	Introduction to Canva & Digital Design
Week 2 (11) Oct 19 - 23	Graphic Design Principles
Week 3 (12) Oct 26 - 30	Monday Retrocession Day ~ Public Holiday Canva Presentations & Infographics
Week 4 (13)	Digital Photography & Image Editing

Nov 2 - 6	
Week 5 (14) Nov 9 - 13	Video Production with Canva
Week 6 (15) Nov 16 - 20	Audio & Multimedia Storytelling
Week 7 (16) Nov 23 - 27	T-W-Th Pre-Exam Days Friday Grade 12 Exams Media Production Project
Week 8 (17) Nov 30 - Dec 4	Monday Grade 12 Exams Final Media Showcase & Reflection (Part 1)
Week 9 (18) Dec 7 – Dec 11	Monday TBD Tuesday Foundation Day Mass 9:00, Cutting of the Cake Ceremony, Christmas Fair, (Whole day) Wednesday TBD Thursday Major Final Exams half day Friday Major Final Exams half day Final Media Showcase & Reflection (Part 2)
<i>Dec 14 to Jan 1 Christmas Break</i>	

Third Quarter Tentative Course Content

Course Goal: HTML5 Web Development

The course aims to develop students' knowledge, creativity, and practical skills in **web development and HTML5** by guiding them in creating well-structured, organized, visually engaging, and meaningful webpages. Students will learn to use HTML5 elements, multimedia, navigation, tables, semantic structures, and basic styling while practicing responsible and ethical use of digital technology.

Through the **D'TORCH Student Learning Outcomes (SLOs)**, students will:

- **T – Truthful:** Practice honesty, proper attribution, and responsible use of digital content, images, and online resources.
- **O – Organized:** Create webpages with clear structure, logical navigation, properly organized content, and appropriate HTML5 elements.
- **R – Reflective:** Evaluate their webpage designs and reflect on how technology can effectively communicate information.

- **C – Courageous:** Experiment with HTML5, solve coding and design problems, and confidently present their website projects.
- **H – Helpful:** Design webpages that communicate useful information and demonstrate consideration for users, accessibility, and the wider community.

By the end of the course, students will be able to **plan, create, style, test, and present a functional HTML5 website that demonstrates technical skills, creativity, responsible digital citizenship, and the D'TORCH values.**

Week & Date	Topics / Projects / Assessments
Week 1 (19) Jan 4 - Jan 8	Monday Record Day ~ Student Holiday Friday New Year Mass at 8:00 Introduction to Web Development & HTML5
Week 2 (20) Jan 11 - Jan 15	HTML Document Structure
Week 3 (21) Jan 18 - Jan 22	Text Formatting & Headings
Week 4 (22) Jan 25 - Jan 29	Lists & Webpage Organization
Week 5 (23) Feb 1 - Feb 5	Thursday Little New Year's Eve ~ Public Holiday Friday Lunar New Year ~ Public Holiday Links & Navigation
<i>February 8 to 12 Chinese New Year Holiday</i>	
Week 6 (24) Feb 15 - Feb 19	Images & Multimedia
Week 7 (25) Feb 22 - Feb 26	22-26 IOWA Assessments Tables & Information Display
Week 8 (26) Mar 1 - Mar 5	Monday Memorial Day ~ Public Holiday T-W-Th Pre-Exam Days HTML5 Semantic Elements
Week 9 (27) Mar 8 - Mar 12	Webpage Design & Basic Styling

Week 10 (28) Mar 15 - Mar 19	HTML5 Website Project & Presentation
Week 11 (29) Mar 22- Mar 26	Tuesday Major Final Exams half day Wednesday Major Final Exams half day Thurs - Fri Easter Break (Spring Break) ~ Public Holiday
<i>March 25 to April 2 Easter & Spring Break</i>	

Fourth Quarter Tentative Course Content

Course Goal

The Robotics and mBot course aims to develop students' **technological skills, creativity, critical thinking, collaboration, and responsible problem-solving** through hands-on robotics activities using mBot and mBlock. Students will learn to program, control, and troubleshoot robots while applying the **D'TORCH Student Learning Outcomes (SLOs)**:

- **D – Dominican:** Demonstrate **truthfulness and integrity** by using technology responsibly, following safety procedures, and practicing ethical digital behavior.
- **T – Truthful:** Write and apply accurate programs, test results honestly, and recognize mistakes as opportunities for improvement.
- **O – Organized:** Plan, sequence, and organize programs and robotics projects systematically and efficiently.
- **R – Reflective:** Evaluate their robot's performance, reflect on challenges, and improve their solutions through testing and iteration.
- **C – Courageous:** Demonstrate confidence, creativity, and perseverance when experimenting with unfamiliar technologies and solving programming challenges.
- **H – Helpful:** Collaborate with classmates, share knowledge, assist others, and contribute positively to team-based robotics projects.

By the end of the course, students will be able to **design, program, test, troubleshoot, and present an mBot project**, demonstrating both technical competency and the D'TORCH values of being **Truthful, Organized, Reflective, Courageous, and Helpful**.

Week & Date	Topics / Projects / Assessments
Week 1 (30) Apr 5 - Apr 9	Monday Tomb Sweeping Day ~ Public Holiday Tuesday Children's Day ~ Public Holiday Introduction to Robotics and mBot
Week 2 (31) Apr 12 - Apr 16	Getting Started with mBlock Basic Programming and Movement
Week 3 (32) Apr 19 - Apr 23	19 - 23 AP Mock Exams Using Sensors Line-Following Robot
Week 4 (33) Apr 26 - Apr 30	T-W-Th Pre-Exam Days Friday Labor Day ~ Public Holiday Obstacle Avoidance Sound, Light, and Interaction

Week 5 (34) May 3 - May 7	3 - 7 Final Exams (K, Gr. 5, 8, & 12 Only) 3 - 14 AP Exams Robotics Challenge and Problem Solving mBot Capstone Project and Presentation
Week 6 (35) May 10 - May 14	3 - 14 AP Exams Wednesday Major Final Exams Undergraduates half day Thursday Major Final Exams Undergraduates half day Friday Record Day ~ Student Holiday Robotics Challenge and Problem Solving mBot Capstone Project and Presentation
Week 7 (36) May 17 - May 21	Monday Gr. 12 Recollection (Morning) Monday Baccalaureate Mass (Afternoon, Schoolwide) Wednesday House Sports Day Thursday High School Field Trip Friday House Culminating Activity All Week Student Clearance Days & Special Events
Week 8 (37) May 24 - May 28	Monday Middle & High School Sports Day Monday LS Field Trip Tuesday Kindergarten Graduation/Gr. 5 Promotion Wednesday Gr. 8 Graduation and Gr. 12 Graduation Thursday Pre-Kindergarten & Gr. 1 - 4, 6 & 7, 9-11 Recognition Friday Last Day of School for Students