Dominican International School Kaohsiung

Course Syllabus

Subject: ICT 8 Grade: MS SY: 2023-2024
Teacher: Mr. Alphonse Inbaraj Xavier Email: xalphonse@disk.kh.edu.tw

Course Description:
This course mainly focuses on programming analytics by step by step procedure. Hence it starts with algorithm, then flowchart and then finally programming mode. Students will understand how AI is using programming language and how to explore the data for that. This course will cover AI and will explain how to import various program modules into it.

Course Requirements:

- The course will be conducted through lectures, discussions, practice material, projects, and student presentations. Students are strongly encouraged to raise questions and make comments in class. Participation is the key to success.
- Students are required to complete each assignment by the date that it is assigned. Staying on track with assignments will facilitate understanding of the class material.
- Assignment books are available to each student. If there is difficulty in completing the assignments, the teacher must be notified before class the next day.
- Students are encouraged to communicate concerns to teachers and ask for help as needed throughout the school year.
- Students are expected to organize their own class materials and to keep their work neat and tidy. Parents are encouraged to help students by labeling personal items with identification stickers with the student's name in English.
- Students will observe all school policies as outlined in the DISK Handbook. This includes arriving at school on time, abiding by the dress code and speaking only English on the school grounds.
- Students will observe all school policies on Academic Honesty, as outlined in the DISK Handbook. All cases of academic misconduct (such as cheating on tests or plagiarism) will automatically result in a "Fail" grade for the assignment, in addition to any sanctions that may be imposed by the School Discipline office.

Textbooks: Online Resources, Handouts

Homework Policy:

Homework is to be turned in no later than 8:00am on the day that it's due. Late submissions will be penalized a letter grade for each day that it is late for three days. After the third day, homework will no longer be accepted, and the grade will be recorded as a zero. Students must notify the teacher of any late work being submitted. It is not the responsibility of the teacher to find late submissions.

Test Policy:

All tests must be taken home and signed by a parent or guardian the day it is graded and handed back to the student. The student has until the next morning at 8:00am to resubmit parent signatures. If a student identifies an error in grading, it must be presented by this time.

Classroom Rules and Expectations:

1. Be prepared to learn.
2. Participate in class discussions, projects, and classwork.
3. Respect yourself, your peers, and the school.
4. Be careful with school property.
5. No food or drinks while using computers.

Assessment:

30% - Quizzes, Tests, and Projects

30% - Homework, Seatworks, and Participation

30% - Quarterly Exam

10% - Deportment and Behavior

Quarter One - Pacing Guide

DATE	LESSON
Week 1	Introduction about Algorithm
Week 2	Use of algorithm in programming Developing algorithm to solve a particular problem
Week 3	About flow chart
Week 4	Various types of box used in flow chart and their use(terminal box, input/output box, processing box, decision box)
Week 5	Question based on sequence , selection and iteration
Week 6	Revise it and Introduction to Computer Language
Week 7	Classification Models in Computer language
Week 8	Generation , Translation, Compilation and Interpretation
Week 9	Quarter 1 Exam

Quarter Two - Pacing Guide

DATE	LESSON
Week 10	Introduction to AI Lab
Week 11	Continuation of Week 10
Week 12	Importing Models in App Lab
Week 13	Continuation of importing Models in App Lab
Week 14	Model Cards
Week 15	Continuation
Week 16	Saving Models in AI Lab
Week 17	Model Cards in App Lab
Week 18	Revise all and complete pending Lab schedules

Week 19	Quarter 2 Exam

Quarter Three - Pacing Guide

DATE	LESSON
Week 20	Numerical Models
Week 21	Continuation of Numerical Models
Week 22	Numerical Data in AI Lab
Week 23	Continuation of Numerical Data
Week 24	Customizing Apps
Week 25	Coding with Scratch
Week 26	AI Code of Ethics
Week 27	Project: Make a Machine Learning App Discussion
Week 28	Continuation and its issue statement
Week 29	Quarter 3 Exam
Week 30	Project Presentation

Quarter Four - Pacing Guide

DATE	LESSON
Week 31	Survey Planning
Week 32	Continuation of Survey planning
Week 33	Survey Data in AI Lab
Week 34	Continuation
Week 35	Troubleshooting Models
Week 36	Continuation and Creating an App
Week 37	Project - Design an AI App

Week 38	Quarter 4 Exam
Week 39	Graduation