KFUPM

Academic Year 2025-2026

PSEP Modular Courses

Overview | Grading & Attendance Policies

General Information:

Modular Courses

All **9 modular courses** will be offered and implemented in the following aspects:

This means that students can complete one modular course in one module (two months).

08 Weeks

Weekly Class **01**

Students will attend only one class per week, reducing their course load.

Two modular courses are paired per set. Students will focus on one course during the first module and the other during the second module.

02 Modular Courses per semester

Credit Hour **.50**

Modular courses are 0.50 credit hours each, allowing students to earn a minimum of 2 credit hours per academic year.

Overview:
Modular Courses

Each semester, students will study **two** modular courses, combined into **one set**, chosen from the following options:

Set One

PYP 011

General Safety

PYP 012

Automotive

or

PYP 013

Leadership

Set Two

PYP 021

Graphics

PYP 022

Self-Management

Set Three

PYP 031

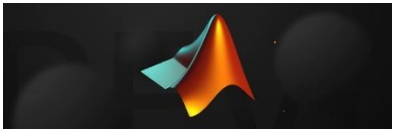
Microsoft Office

PYP 032

Arduino

Set Four

PYP 041



MATLAB

PYP 042

Critical Thinking

By the end of the **second semester**, students are expected to complete **four modular courses** (two sets). Students may also choose to add two modular courses of their interest.

Set One:
Course Description

PYP011: General Safety

Overview

This course teaches fundamental safety policies and practices, enabling students to actively implement safety measures in any community or workplace. It emphasizes safe management of events, life, and property to prevent accidents.

Learning Outcomes

- Explain general safety concepts
- Highlight safety culture issues
- Understand key health concerns
- Define risk
- Examine risk management basics
- Promote safety-conscious environment

PYP012: Automotive

Overview

This course provides students with fundamental knowledge of automotive systems, including engine, transmission, braking, cooling, fuel, suspension, and electrical systems. It also covers basic troubleshooting of ignition and electrical circuits using essential workshop tools.

Learning Outcomes

- Understand 4-stroke petrol engine operation
- Diagnose & troubleshoot car ignition systems
- Comprehend car transmission, braking systems, and life cycle
- Examine car safety management & wheel balancing
- Explain energy conversion in petrol engines

PYP013: Leadership

Overview

This course explores leadership vs. management, diverse leadership styles, emotional intelligence, and team building. Students will develop key leadership skills through case studies, simulations, and group discussions.

Learning Outcomes

- Differentiate leadership & management
- Enhance personal, professional, & team development
- Evaluate personal leadership strengths & weaknesses
- Apply leadership theories to case studies

Set Two:
Course Description

Overview

This course provides an overview of essential AutoCAD skills for general model descriptions, layout, and architecture. Students will gain foundational knowledge of 3D Isometric drawing techniques to enhance their understanding of graphics. Hands-on experience with various application tools will reinforce comprehension and proficiency in graphics software.

PYP021: Graphics

Learning Outcomes

- Introduce the basic concepts of 2D drawings
- Learning the features of AutoCAD
- Understanding the workspace and its tools for drawing, editing, and dimensioning
- Provide the key skills required to learn 2D drawings, design, and drafting
- Use the functions and commands to create 3D modeling

Overview

This course helps students to learn the vital skills of time, financial, and emotional management. Also, this empowers students to become high achievers by effectively bridging the gap between their goals and accomplishments.

PYP022: Self-Management

Learning Outcomes

- Comprehend the principles of self-management
- Master effective time management
- Recognize and mitigate common time-wasting behaviors
- Utilize personal skills for income diversification
- Establish a personal savings culture
- Cultivate strong emotional intelligence

Set Three:
Course Description

Overview

This course covers basics to advanced features of MS Office programs, including document creation and editing, data management with spreadsheets, & professional presentation preparation. Key topics include formatting, tables, charts, and functions.

PYP031: Microsoft Office

Learning Outcomes

- Identify basic features & concepts of MS Office
- Develop professional documents using MS Word
- Process and analyze quantitative and textual data with MS Excel
- Create slide-based presentations with MS PowerPoint

Overview

This course provides a foundation in microcontroller programming & electronics using the Arduino platform. Students will learn to program with the Arduino IDE and control various electronic components like LEDs, motors, and sensors.

PYP032: Arduino

Learning Outcomes

- Explain Arduino programming and basics of electronic device
- Write Arduino IDE programs to control electronic devices
- Collaborate effectively on Arduino-based project design, build, and programming
- Analyze and troubleshoot Arduino programs and projects

Set Four:
Course Description

Overview

This course provides a solid theoretical understanding and hands-on experience with MATLAB. Learn to perform complex mathematical operations, plot data and functions, manage algorithms, and interface with programs in C, C++, and Java.

PYP041: MATLAB

Learning Outcomes

- Identify MATLAB environment features
- Perform calculations using MATLAB
- Develop basic problem-solving algorithms

Overview

This short course aims to equip students with the ability to make decisions and solve problems creatively, leading to alternative solutions that enhance performance, self-confidence, and communication.

PYP042: Critical Thinking

Learning Outcomes

- Identify key features of creative and critical thinking
- Recognize the importance of decision-making skills
- Demonstrate effective "out-of-the-box" thinking
- Combine existing ideas and expertise in original ways

Modular Courses: Grading Policies

Attendance	Quizzes/ Short Tests	Class Participation	Projects/ Assignments
5%	20%	25%	50%

Attendance Policies

1. A student is registered **absent** in a class if he/she joins **after 10 minutes** or **did not attend.**
2. A student is registered **late** in a class if he/she joins **within 10 minutes** of the **start** of the class time.
3. A student will be marked **absent** if he/she is late for **3 classes.**
4. A student will be awarded a **DN grade** if he/she reaches **2 unexcused absences.**
5. A student will be awarded a **DN grade** if he/she reaches a total of **3 absences** (both excused and unexcused)
6. **Three (3) points** will be deducted from the attendance grade for an **unexcused absence.**
7. A student will get a **full attendance mark** if he/she attended **all** classes **without late** records.
8. **One** (1) point will be deducted for being **late** for **1 class** (the maximum is being late for 2 classes because 3 late is converted to 1 absent).

Contact us

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