

GENERAL EDUCATION, KMITL

COURSE SYLLABUS

|  |   |                                |  |         |  |                     |  |
|--|---|--------------------------------|--|---------|--|---------------------|--|
| Course code                                  | 96643026  | Course name                    | INVESTMENT PLANNING  |         |  |                     |  |
| Total Credit                                 | 3 (3-0-6)   | Semester /<br>Year of<br>Study |  | Section |  | Day - class<br>time |  |
| Course description<br>Thai language          | ศึกษามูลค่าเงินตามเวลา หลักการวางแผนการลงทุน ลักษณะ ผลตอบแทนและความเสี่ยงของสินทรัพย์ประเภทต่างๆ ทฤษฎีการเงินที่ใช้เพื่อการลงทุน การบริหาร ความเสี่ยง หลักการวิเคราะห์หลักทรัพย์ การประเมินมูลค่าหลักทรัพย์เบื้องต้น และการจัดพอร์ตลงทุน          |                                |  |         |  |                     |  |
| Course description<br>English                | Study time value of money, investment planning principles, types, return and risk of each asset class, finance theories related to investment, risk management, financial instrument analysis, fundamental of valuation, and portfolio management |                                |  |         |  |                     |  |
| Course Coordinator                           | Asst. Prof. Dr. Raviphat Labcharoensuk  |                                |  |         |  |                     |  |
| Instructor                                   | Ajarn. Dr. Sakdipat Kritsanachinda  |                                |  |         |  |                     |  |
| Teaching assistant ( if any )                |   |                                |  |         |  |                     |  |
| Counselling Schedule                         |   | Teaching language              | <input type="checkbox"/> Thai language <input checked="" type="checkbox"/> English<br><input type="checkbox"/> Other, please specify ..... |         |  |                     |  |
| Website or online Teaching Method ( if any ) |   |                                |  |         |  |                     |  |

Learning outcomes of the course ( Course Learning Outcome )

1. Students know different types of assets. Able to analyze risks of various types of assets.
2. Students can apply investment planning for themselves in real life.
3. Students can search for information on economics, finance, investing in stocks, mutual funds, and alternative assets. Followed by various media around the world
4. Students can choose to invest in stocks or mutual funds around the world. To suit yourself To get a return worth the risk
5. Students have a good mind set for investing. Don't stress about short-term fluctuations. and can correct errors

| General Education Learning Outcome: GE-LO   |                  |
|---|------------------|
| GE-LO   | Weight value     |
| <input checked="" type="checkbox"/> GE-LO -1 Analytical and Critical Thinking ( Analytical and Critical Thinking)                           | 2                |
| <input checked="" type="checkbox"/> GE- LO -2 Complex Problem Solving   | 2                |
| <input type="checkbox"/> GE- LO -3 Creativity   |                  |
| <input type="checkbox"/> GE-LO -4 Relationships with others ( Interpersonal Skills)   |                  |
| <input checked="" type="checkbox"/> GE-LO -5 Integrity and Perseverance   | 4                |
| <input checked="" type="checkbox"/> GE-LO -6 Active Learning and Learning Strategies  | 4                |
| <input type="checkbox"/> GE- LO -7 Resilience , Stress Tolerance and Flexibility  |                  |
| <input type="checkbox"/> GE-LO -8 Leadership and Social Influence   |                  |
| <input type="checkbox"/> GE-LO -9 Effective Communication ( Communication)  |                  |
| <input checked="" type="checkbox"/> GE- LO -10 Entrepreneurship and Startup   | 3                |
| <input type="checkbox"/> GE- LO -11 Digital Literacy and Digital Media Production ( Digital Quotient Literacy and Digital Media Production) |                  |
| <b>Total Value</b>  | <b><u>15</u></b> |

### Teaching Plan and Evaluation Plan

| Week | Topic/Subtopic   | Activities   | Notes |
|------|--|--|-------|
| 1    | <b>Course introduction ( course outline)</b><br>- What is investment? Why invest (inflation , life expectancy longer than working period , survival , passive income)<br>- Get to know equity instruments - debt instruments - derivative instruments - crypto<br>Initially recommend assets according to asset class )<br>- Time Value of Money<br>- Yield measurement (Arithmetic mean , Geometric mean , Holding Period Return-HPR) | - Lectures, slides, recommended sources of reference<br>- Join the LINE and MS TEAMS groups.<br>Learning Outcome measurement |       |

| Week | Topic/Subtopic  | Activities  | Notes   |
|------|---|---|---|
| 2    | <b>Investment risk analysis</b><br>- External factors, economic cycle, effects from the global/domestic economy , GDP, politics , inflation , interest ,<br>- How do these various factors affect different types of assets?<br>- Factors within the business<br>- Understand yourself, do an assessment of your own risk taking ( suitability test). | - Lectures, slides, exercises, case studies<br>- Introducing Web and Application news for investing<br>- Try opening a real investment portfolio<br>- Exercises to test understanding           | - Quiz Preparations.  |
| 3    | <b>Equity instruments and money markets</b><br>- Returns from stocks (dividends , capital gain, shareholder rights), risks, advantages, disadvantages, investment mindset<br>- Stock types by sector, grouping of stocks by index MSCI<br>- Money market, returns, risks, advantages and disadvantages  | - Lectures, slides, case studies, reference resources<br>- Introducing Web and Application news for investing<br>- Try opening a real investment portfolio<br>- Exercises to test understanding |   |
| 4    | <b>bond market and derivative instruments</b><br>- Types of debt instruments<br>- Credit rating of debt instruments<br>- Return on debt instruments<br>- Factors affecting bond prices<br>- Principles of Derivatives Types of derivatives<br>- Utilizing Derivatives   | - Lectures, slides, case studies, reference resources<br>- Introducing Web and Application news for investing<br>- Try opening a real investment portfolio<br>- Exercises to test understanding | - 1 <sup>st</sup> Quiz to be Submitted within the day of class. |
| 5    | <b>Alternative investments, various types of alternative assets, advantages and disadvantages.</b><br>- Real estate ( Physical / REIT)<br>- Gold ( Physical / e-gold / fund)<br>- Infrastructure fund<br>- Hedge funds<br>- Commodities , Forex<br>- Cryptocurrency / NFT / Digital Token   | - Lectures, slides, case studies, reference resources<br>- Introducing Web and Application news for investing   | - 2 <sup>nd</sup> Quiz to be Submitted within the day of class. |

| Week                     | Topic/Subtopic   | Activities  | Notes   |
|--------------------------|--|---|---|
| 6                        | <b>Stock analysis from business fundamentals ( fundamental analysis)</b><br>- Top-down analysis<br>-Bottom -up analysis<br><b>Financial statement analysis</b> Statement of financial position, income statement, cash flow statement and notes to the budget (Content will be divided into 2 weeks)   | - Lectures, slides, case studies, reference resources<br>- Introducing Web and Application news for investing   | - Worksheet<br>1 measures learning outcomes ( GE-LO-1 assessment)   |
| 7                        | <b>Financial statement analysis (continued)</b><br>- Important financial ratios ( GPM, OPM, NPM, EPS, D/E, ICO, ROE, ROA)<br>- Application of financial statements to investments  | Lecture slides using case studies from platforms and websites. of the stock exchange exercise pre-test/post-test  | - Worksheet<br>2 Measure learning outcomes ( GE-LO-5 assessment)    |
| 8                        | <b>Stock valuation ( Valuation)</b><br>- Multiplier models (P/E, P/BV, P/S, EV/EBITDA)<br>- Others (PEG)<br>- Asset-based models<br>- Discounted Cash flow models (DCF, DDM)   | - Lecture slides<br>- Use case studies from the stock exchange's platform and website<br>- Invest in the stock simulator program Click to win   | - Worksheet<br>3 measures learning outcomes ( GE-LO- 10 assessment) |
| <b>Midterm exam week</b> |  | No classes for this subject. There is no midterm exam.  |   |
| 9                        | <b>Technical analysis</b><br>- Technical Analysis Concepts Technical rules<br>- Tools to help assess entry and exit points. Simple support and resistance levels<br>- Differences and use with fundamental business analysis   | Lectures, slides, case studies<br>- Try using the Trading view graph program.<br>- Read technical analysis from Settrade.com and other sources.   | Start making a group report.  |
| 10                       | <b>Arrangement of investment portfolios ( Portfolio Management)</b><br>- The concept and importance of diversification<br>- Calculation of return and risk of the portfolio<br>- How to organize your portfolio according to your life stage/according to the risk you accept.<br>- Investment allocation ( money management)<br>- Portfolio management strategy core-satellite, Strategic or Tactical,<br>Rebalancing Portfolio | Lectures, slides, case studies<br>- Try using the graph program. and investment information around the world such as Trading view / Dime / Investing.com / Yahoo Finance / Jitta / Finnomena<br>- Experiment with investment tax planning | Conduct group report  |

| Week | Topic/Subtopic   | Activities  | Notes   |
|------|--|---|---|
| 11   | <b>Investment channels</b><br>- Mutual funds / ETFs ( fund types and risk levels)<br>- Organize your own investment portfolio<br>- private investment (private fund, Hedge fund, private asset)<br>Taxes related to investment returns<br>- Tax saving funds and tax conditions<br>- Taxes on mutual funds<br>- Dividend tax and dividend tax credit | Lectures, slides, case studies<br>- Try using graph programs and investment data around the world such as Trading view / Dime / Investing.com / Yahoo Finance / Jitta / Finnomena<br>- Experiment with investment tax planning  | Conduct group report                                  |
| 12   | <b>Implement 6 investment planning steps</b><br>1. Goal setting<br>2. Analyze risks and limitations<br>3. Port design<br>4. Create a policy<br>5. Proceed<br>6. Measure results<br>- Plan to create an investment portfolio in real assets.<br>- Summary of learning content   | Lecture: Practice portfolio design and investment planning for Starting age 5 year investment plan<br>- Organize into groups of no more than 10 groups .<br>Select assets in the portfolio<br>Portfolio design , returns and overall portfolio goals<br>- Analyze stocks qualitatively and quantitatively Price to buy The reasons for selecting each security are given to each group for 15 minutes and answer questions. | Group gathering and attempt group work, Group Project |
| 13   | <b>Do a Work Shop Project , select stocks</b><br>Send mock port report<br>Summary of learning content: Stock selection project , group work  | Work Shop: Practice portfolio design and investment planning for working age people. 5 year investment plan   | Group gathering and attempt group work ( continued )  |
| 14   | <b>Group Presentation Project</b>  | Give each group 15 minutes to present and answer questions.   | Present exceeds the time deducted from points.        |
| 15   | <b>Final exam in the classroom</b>   | Subjective exam: 3 questions. You can write down the contents to take into the exam room on 1 page of A, 4 front and back).   | Final Exam attendance is compulsory                   |

Evaluation Plan

| Assessment activities   | Weighted value | Score | Assesment Period        | GE-LO                          | Notes  |
|---|----------------|-------|-------------------------|--------------------------------|--|
| 1. Punctuality of attending to classes<br>( Line check deducted 0.5 points each time )<br>Sick leave or business leave is not considered absent, but Must notify in advance before class time and Send evidence in Line to the instructor every time. | 1              | 4     | throughout the semester | GE-LO-5                        | Coming to class after 30 minutes is considered late. Coming to class after 1 hour is considered absent.<br>Missing class more than 3 times and not passing the course            |
| 2. Quiz sent within the day of class.<br>( Deducted late, 1 point per day )   | 1              | 4     | throughout the semester | GE-LO-5                        | Submit the quiz less than 2 times and do not pass the course.  |
| 3. Participate in learning  | 1              | 4     | throughout the semester | GE-LO-5                        | Ask questions during class every week, using the forms set by the instructor.  |
| 4. Matching worksheet<br>( Can be sent within 3 days from the date of study<br>(T+3) Late delivery deducts 1 point per day )  | 3              | 12    | throughout the semester | GE-LO-1<br>GE-LO-5<br>GE-LO-10 | Emphasis on investment analysis according to actual situations. and have the right attitude<br>Must be able to give real investment examples.                                    |
| 5. Group report summarizing investment ideas.<br>, investment portfolio arrangement   | 3              | 12    | Weeks 10-14             | GE-LO-2<br>GE-LO-6             | Practice investing for real ( weight 2 )<br>Group report, planning to invest in stocks, bonds, mutual funds around the world   |
| 6. Group Presentation Project Exam  | 3              | 12    | Week 13- 14             | GE-LO-6<br>GE-LO-10            | Presentation of investment portfolio ( weight 2 )<br>There is a period for the teacher to ask questions - for the group to answer. and debate investment plans with other groups |
| 7. Final exam   | 3              | 12    | Week 15                 | GE-LO-1<br>GE-LO-2<br>GE-LO-10 | 3 big subjective exams<br>( Use a calculator and write down the contents into the  |

| Assessment activities | Weighted value | Score | Assesment Period | GE-LO | Notes   |
|-----------------------|----------------|-------|------------------|-------|---|
|                       |                |       |                  |       | examination room on 1 A4 sheet ( front-back ) |
| Total                 | 15             | 60    |                  |       |   |

Evaluation criteria

|  |       |          |          |           |          |         |         |        |
|--|-------|----------|----------|-----------|----------|---------|---------|--------|
| <input type="checkbox"/> group based               |       |          |          |           |          |         |         |        |
| <input checked="" type="checkbox"/> Criteria based |       |          |          |           |          |         |         |        |
| Grade (shows only based on criteria)               | A     | B+       | B        | C+        | C        | D+      | D       | F      |
| Score range (out of 60 points)                     | 57-60 | 49 -56.9 | 41 -48.9 | 34 - 40.9 | 27 -33.9 | 21-26.9 | 15-20.9 | 0-14.9 |
| <input type="checkbox"/> Pass / Fail ( S/U )       |       |          |          |           |          |         |         |        |
| grade  | S     |          |          |           | U        |         |         |        |
| Score range (out of 60 points)                     | 30-60 |          |          |           | 0-29.9   |         |         |        |

Scoring criteria according to Assessment Plan

| Assessment Activities  | Learning Outcomes | Weight value | Score level  |   |  |   |
|--|-------------------|--------------|--|---|--|---|
|  |                   |              | 4 (very good)  | 3 (good)  | 2 (fair)   | 1 (should be improved)  |
| 1. Punctuality of attending to classes   | GE-LO 5           | 1            | Punctuality to class attendance<br>13 - 15 times   | Punctuality to class attendance<br>12 times   | Punctuality to class attendance<br>10 times  | Punctuality to class attendance<br>less than 10 times   |
| 2. Quiz  | GE-LO 5           | 1            | Receive a cumulative Quiz score of more than 80% of the full score.  | Accumulated Quiz points<br>70% - 79% of full score  | Accumulated Quiz points<br>60% - 69% of full score   | Get Quiz Score<br>Accumulated less than 60 % of full score  |
| 3. Participate in learning   | GE-LO 5           | 1            | There will be questions and answers, comments and interaction with the teacher or classroom activities for 12 or more periods. | There will be questions and answers, comments and interaction with the teacher or classroom activities for 10-11 periods.                                     | There will be questions and answers, comments and interactions with the teacher or classroom activities 8-9. period                                      | 8 periods of questions, answers, comments and interaction with the teacher or classroom activities. |
| 4. Worksheet   | GE-LO-1           | 1            | Week 6 worksheet<br>Score more than 80%  | 6 worksheet<br>Score 70% - 79%  | 6 worksheet<br>Score: 6.0 % - 6.9 %  | 6 worksheet<br>Score less than 60 %   |
|  | GE-LO 5           | 1            | Week 7 worksheet<br>Score more than 80%  | Week 7 worksheet<br>Score 70% - 79%   | Week 7 worksheet<br>Score: 6.0 % - 6.9 %   | Week 7 worksheet<br>Score less than 60 %  |
|  | GE-LO-10          | 1            | 8 worksheet<br>Score more than 80%   | 8 worksheet<br>Score 70% - 79%  | 8 worksheet<br>Score 6 0% - 69%  | 8 worksheet<br>Score less than 60 %   |
| 5. Group report summarizing the concept of Investment and management report Investment portfolio | GE-LO 2           | 1            | Able to present solutions to solve problems with 3 objectives<br>1) There are many options for solving problems.               | Solutions can be presented for 2 out of 3 purposes.<br>1) There are many options for solving problems.<br>2) Set priorities and choose appropriate solutions. | Able to present solutions for 1 of 3 purposes.<br>1) There are many options for solving problems.<br>2) Set priorities and choose appropriate solutions. | Unable to present options for solving problems based on hypothetical situations.                    |

| Assessment Activities         | Learning Outcomes | Weight value | Score level   |   |   |  |
|-------------------------------|-------------------|--------------|---|---|---|--|
|                               |                   |              | 4 (very good)   | 3 (good)  | 2 (fair)  | 1 (should be improved)   |
|                               |                   |              | <p>2) Set priorities and choose appropriate solutions.</p> <p>3) Solve problems without creating limitations or creating new problems or prevent problems in the long run.</p>  | <p>3) Solve problems without creating limitations or creating new problems or prevent problems in the long run.</p>   | <p>3) Solve problems without creating limitations or creating new problems or prevent problems in the long run.</p>   |  |
|                               | GE-LO 6           | 2            | <p>Ports can be formatted for all 3 purposes.</p> <p>1) There is a real opportunity to achieve the goal.</p> <p>2) There is appropriate risk distribution.</p> <p>3) Choose a group of securities that is reasonable according to the hypothetical situation.</p> | <p>Ports can be formatted accordingly. 2 Item from 3 purposes</p> <p>1) There is a real opportunity to achieve the goal.</p> <p>2) There is appropriate risk distribution.</p> <p>3) Choose a group of securities that is reasonable according to the hypothetical situation.</p> | <p>Ports can be formatted accordingly. 1 Item from 3 purposes</p> <p>1) There is a real opportunity to achieve the goal.</p> <p>2) There is appropriate risk distribution.</p> <p>3) Choose a group of securities that is reasonable according to the hypothetical situation.</p> | <p>Submit work, but the portfolio cannot be formatted exactly as intended.</p> |
| 6. Present Project exam group | GE- LO-6          | 2            | <p>3 objectives were clearly achieved.</p> <p>1) There is reference information from reliable sources in the presentation.</p> <p>2) Analyze business trends reasonably with supporting data.</p>   | <p>Clearly achieved 2 out of 3 objectives .</p> <p>1) There is reference information from reliable sources in the presentation.</p> <p>2) Analyze business trends reasonably with supporting data.</p>  | <p>Clearly achieves 1 of the 3 objectives .</p> <p>1) There is reference information from reliable sources in the presentation.</p> <p>2) Analyze business trends reasonably with supporting data.</p>  | <p><u>three objectives cannot be achieved clearly and reasonably.</u></p>      |

| Assessment Activities                    | Learning Outcomes | Weight value  | Score level   |   |  |   |
|--|-------------------|---|---|---|--|---|
|  |                   |   | 4 (very good)   | 3 (good)  | 2 (fair)   | 1 (should be improved)  |
|  |                   |   | 3) Apply the knowledge gained.  | 3) Apply the knowledge gained.  | 3) Apply the knowledge gained.   |   |
|  | GE- LO-10         | 1   | Able to analyze the following issues completely and with supporting reasons.<br>1) Strengths and weaknesses of the business<br>2) Analyze industry risks<br>3) Competitors of the business or events that may destroy ( disrupt) the business | Able to analyze completely and have reasons to support 2 points.<br>1) Strengths and weaknesses of the business<br>2) Analyze industry risks<br>3) Competitors of the business or events that may destroy ( disrupt) the business | Able to analyze completely and have reasons to support 1 point.<br>1) Strengths and weaknesses of the business<br>2) Analyze industry risks<br>3) Competitors of the business or events that may destroy ( disrupt) the business | <a href="#">There is work submitted but cannot be analyzed in a reasonable way.</a> |
| 7. Final exam                            | GE-LO-1           | 1   | Exam Part 1 received a score of more than 85%.  | Exam part 1 Score 80-84%  | Exam Part 1 received a score of 70 -79%.   | Exam Part 1 received a score of less than 70 %.                                     |
|  | GE-LO-2           | 1   | Part 2 of the exam received a score of more than 85%.   | Exam part 1 Score 80-84%  | Exam Part 1 received a score of 70 -79%.   | second part of the exam received a score of less than 70 %.                         |
|  | GE-LO-10          | 1   | Exam Part 3 received a score of more than 85%.  | Exam part 1 Score 80-84%  | Exam Part 1 received a score of 70 -79%.   | Exam Part 3 received a score of less than 70 %.                                     |
| Required books/documents/study equipment |                   | - Lecture documents by Ajarn. Dr. Sakdipat Kritsanachinda<br>Case Study materials and investment websites worldwide |   |   |  |   |

|  |   |      |  |
|--|---|------|--|
| Books/documents/additional learning materials                | <p>- Recommended books: 1. Investing 101 : From Stocks and Bonds to ETFs and IPOs by Michele Cagan 2. Rich Dad Poor Dad by Robert Kiyosaki</p> <p>- Learning documents and website of the Stock Exchange of Thailand Bank of Thailand Ministry of Finance, SEC Association of Securities Companies Bloomberg Investment Analysts Association , CNN CNBC, Investing.com, Tradingview.com</p> |      |  |
| Things to know for students about studying                   | Attendance less than 80% forfeits the right to take the exam ( you can miss 3 times ) and if you don't take the final exam , you will receive an F.   |      |  |
| Things to know for students about measurement and evaluation | <p>Criteria-based grading</p> <p>Evaluation criteria may be adjusted as appropriate and according to the situation. This will be announced in class in advance.</p>   |      |  |
| Last updated by  | Ajarn. Dr. Sakdipat Kritsanachinda  | date |  |