Co-funded by the
Erasmus+ Programme
of the European Union

MARINE ENVIRONMENT AND RENEWABLE ENERGY

Marine Coastal and Delta Sustainability for Southeast Asia (MARE)

OVERVIEW

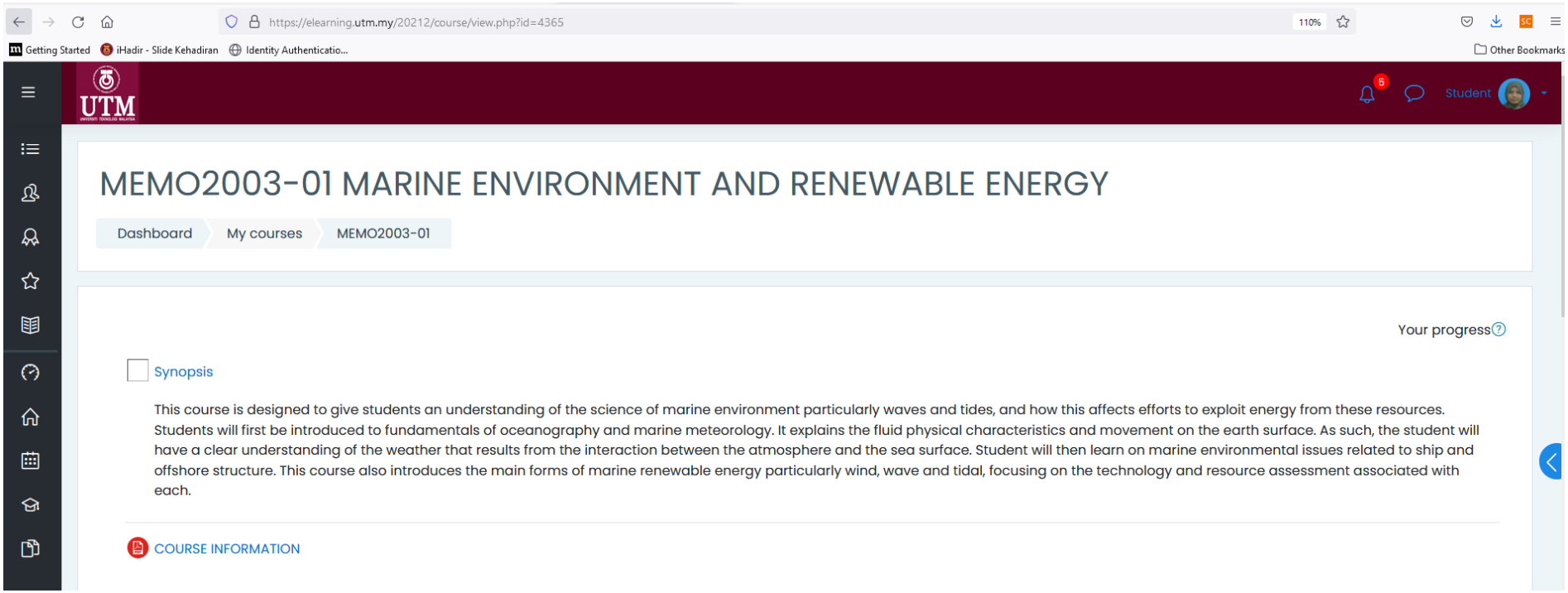
MARE
Co-funded by the Erasmus+ Programme of the European Union

- Contain “Marine Environment and Renewable Energy” course material for Master of Science (Mechanical Engineering)
- Site URL: https://elearning.utm.my/20212/course/view.php?id=4365
- Medium: English

- Modules:
  - Announcements
  - Overview
  - Lesson Plan
  - Course Materials
  - Lecture Notes
  - Additional Resources
  - Assignment

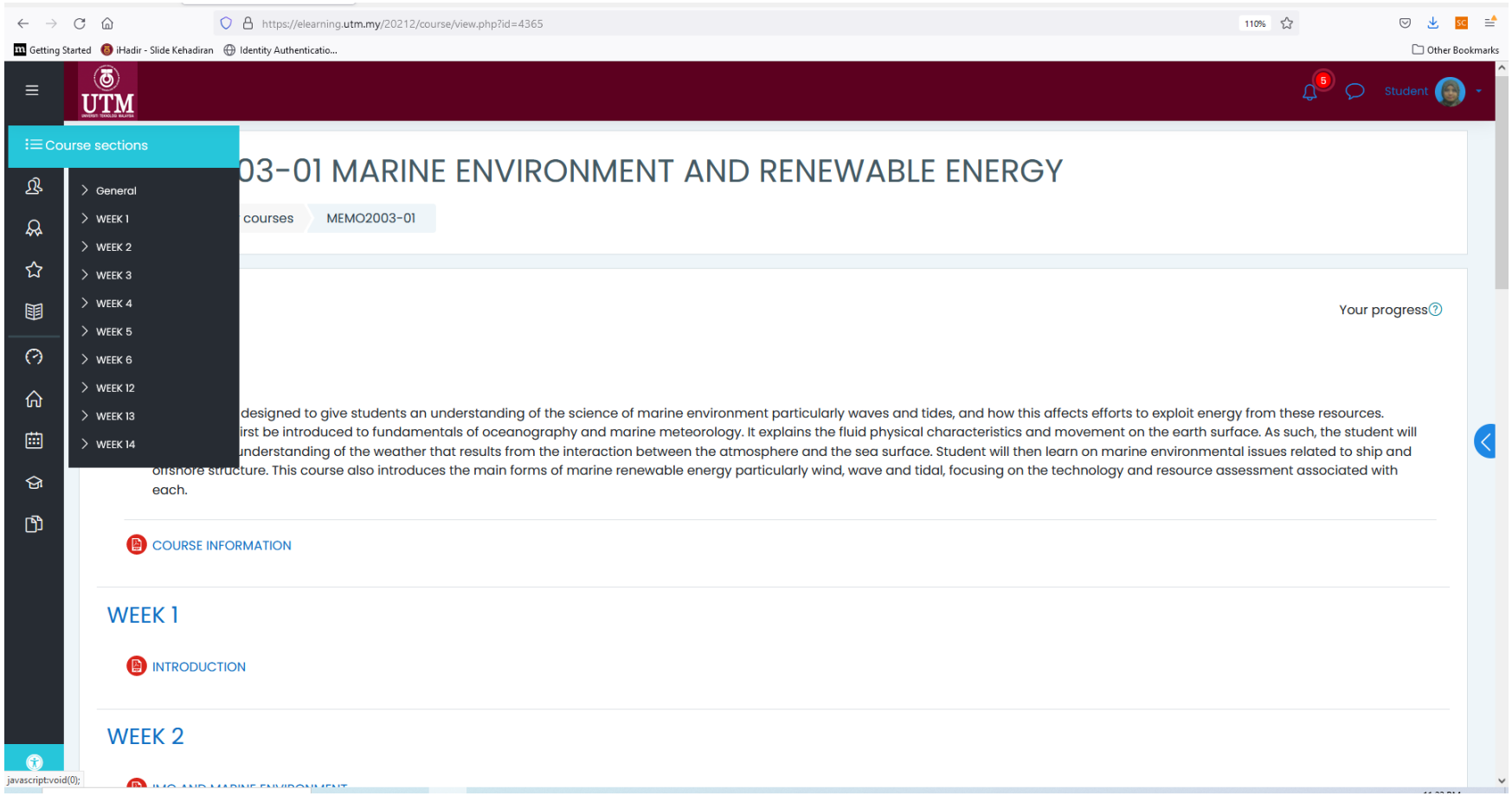
OVERVIEW (Disclaimer)

Co-funded by the Erasmus+ Programme of the European Union



LESSON PLAN

Co-funded by the Erasmus+ Programme of the European Union



COURSE MATERIALS

Co-funded by the Erasmus+ Programme of the European Union

MEMO2003-01 MARINE ENVIRONMENT AND RENEWABLE ENERGY

Dashboard | My courses | MEMO2003-01

Synopsis

This course is designed to give students an understanding of the science of marine environment particularly waves and tides, and how this affects efforts to exploit energy from these resources. Students will first be introduced to fundamentals of oceanography and marine meteorology. It explains the fluid between the atmosphere and the sea surface. Student will then learn on marine environmental issues related to ship and offshore structure. This course also introduces the main forms of marine renewable energy particularly wind, wave and tidal, focusing on the technology and resource assessment assc

COURSE INFORMATION

WEEK 1

INTRODUCTION

WEEK 2

IMO AND MARINE ENVIRONMENT

SHORT ESSAY ASSIGNMENT (1)

Mark as done

WEEK 3

INTRO TO RENEWABLE ENERGY RESOURCES (1)

FORUM: RENEWABLE ENERGY TREND

Mark as done

Please upload your answer here.

WEEK 4

INTRO TO RENEWABLE ENERGY RESOURCES (2)

WEEK 5

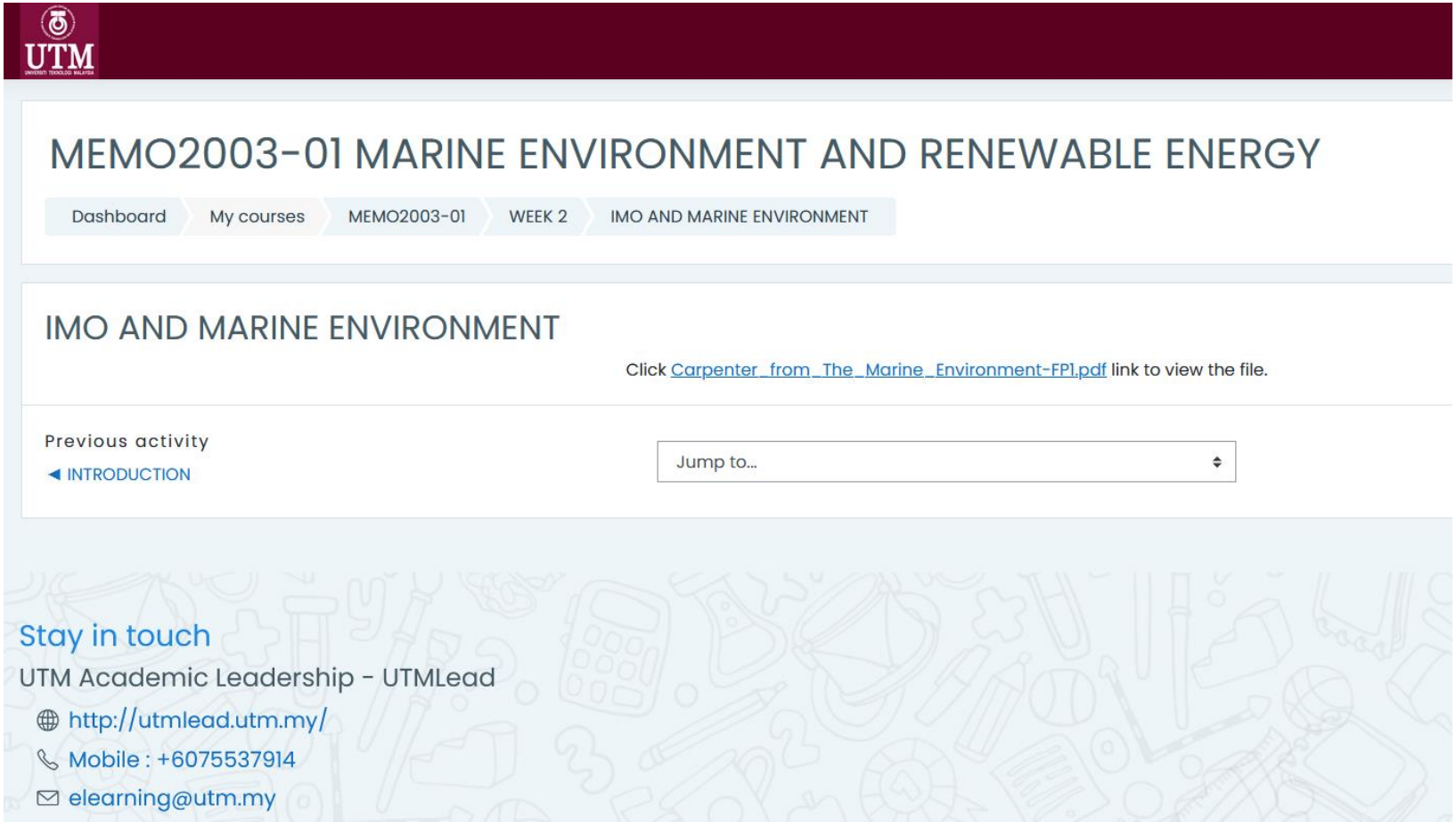
INTRO TO RENEWABLE ENERGY SOURCE (3)

WEEK 6

INTRO TO RENEWABLE ENERGY RESOURCE (4)

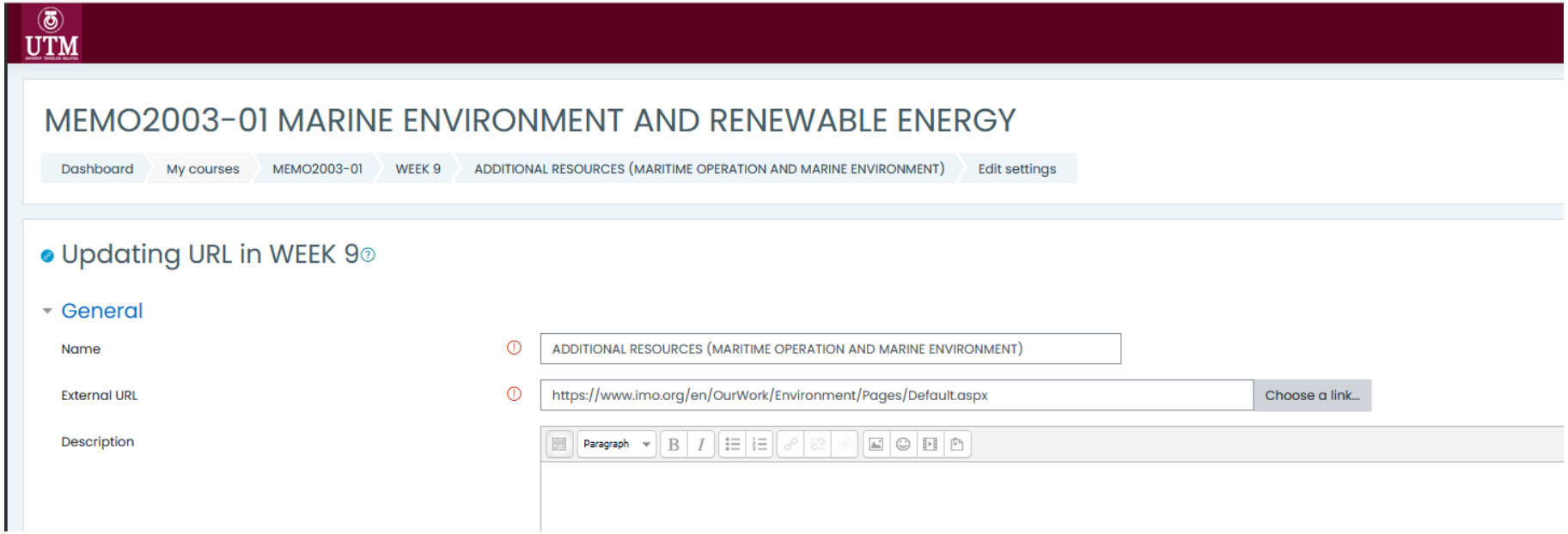
NOTES ATTACHMENT

Co-funded by the
Erasmus+ Programme
of the European Union



ADDITIONAL RESOURCES

Co-funded by the Erasmus+ Programme of the European Union



ASSIGNMENT

Co-funded by the Erasmus+ Programme of the European Union

WEEK 6

INTRO TO RENEWABLE ENRGY RESOURCE (4)

WEEK 7 (PROJECT VIDEO)

Ability to analyze available marine renewable energy converter and propose suitable design for Malaysia sea state conditions.

Appraise various aspects of investment in renewable energy development using appropriate techniques and Excel functions for finance

PERFORMANCE OF RENEWABLE ENERGY DEVICE

Briefing Video

Mark as done

Project Renewable Energy Device Design

Group Discussion (minute of Meeting)

Mark as done

Please post your answer after read the slide 9_1

Rubrics for Report

Mark as done

Group Presentation

univteknologimalaysia utm_my utmofficial

Thank You

www.utm.my

innovative • entrepreneurial • global