

Title

Design and analysis of a sustainable energy application (flexible to any topic relevant to renewable and sustainable energies)

Issue Date

22th Sept. 2025

Due Date

26th Nov. 2025

Main contents but not limited

Discuss, design, analyse a sustainable energy application.

Students are flexible to choose any topic relevant to renewable and sustainable energies.

Literature review, design, analysis, simulation etc are all suitable.

Some samples are provided.

References

Handbooks, textbooks, standards, journal publications, etc.

Report

Page size: A4, portrait

Number of pages: 10 (maximum).

Font: **minimum 11pt**

Margin: 20 mm all sides

Note: separate title and content pages are not needed. See sample and template.

Evaluation criteria

The coursework report will be assessed on the basis of:

- depth and relevance of research (e.g. review, design, analysis)
- synthesis and evaluation of data
- application and understanding of appropriate concepts
- critical appraisal and analysis of issues
- a clear, professional and well-presented report

Marking criteria

Understanding & Analysis (scientific awareness, justification) 40%

0-15 clear fail: Demonstrates essentially no understanding of project; no meaningful analysis.

16-19 borderline fail: Very limited grasp of key scientific issues (or key journal papers); little evidence of critical analysis (or limited number of key journal papers referenced).

20-23 pass: Some comprehension of scientific issues; attempts to apply reason-based analysis.

24-27 merit: Appreciation of scientific challenges (and has found journal papers beyond the initial suggested); reasoned justification of strategic decisions taken (or choice of papers referenced).

28-33 distinction: Clear awareness of scientific challenges; logical approach to problem solving.

33.5-40 exceptional: Lucid presentation of nub of challenges faced (or extensive number of papers referenced); mature, reasoning-based analysis.

Quality & Originality of Results and Discussion. 40%

0-15 clear fail: Quality of data (or papers discussed) doubtful; format unconventional.

16-19 borderline fail: Presentation of data (or papers discussed) imprecise/inaccurate.

20-23 pass: Some useful standard data presented (or papers discussed); format and presentation non-ideal

24-27 merit: Useful data presented (or papers discussed); most important details documented (data from some papers compared); some inconsistencies.

28-33 distinction: High quality results/discussion of publication standard (data from multiple papers compared); format largely adheres to convention.

33.5-40 exceptional: Outstanding high quality results (outstanding quantity of papers found with excellent discussion)/ discussion; substantial project progress made.

Presentation (structure, clarity, written style, quality of English). 20%

0-7 clear fail: Lacked any apparent order; English usage very poor. No links between text & schemes.

8-9 borderline fail: Minimal organisation of material; difficult to follow; unclear; poor English.

10-11 pass: Apparent structure into sections; English acceptable; some text to scheme links.

12-13 merit: English good; clear organisation of material into logical section; Good, clear style.

14-16 distinction: Essentially error free; clear logical construction; balanced presentation of message.

17-20 exceptional: Flawless English; clear, logical structure; engaging style; clear developed message.