

Template of Manuscripts for JET-OUSL

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Abstract – This template gives the basic guidelines and desired layout for the final manuscript of the Journal of Engineering and Technology of the Open University of Sri Lanka. Abstract should not contain any equations, references, or footnotes. This article plays the role of a template as well as the guidelines for prospective authors who will have to prepare the final manuscript accepted for publication by the Faculty of Engineering Technology, OUSL. **Copyright © 2012 The Open University of Sri Lanka - All rights reserved.**

Keywords: Template, Journal of Engineering and Technology

Nomenclature

H - heat transfer coefficient ($\text{Wm}^{-2}\text{K}^{-1}$)

T - temperature (K)

Greek Letters

σ - Stefan Boltzmann Constant

ε_{app} - Apparent thermal emittance

Subscripts

amb - ambient

ex - exchanger

r - radiation heat transfer

1 INTRODUCTION

These instructions give you the guidelines for preparing papers for JET-OUSL. Use this document as a template to type your article. Otherwise, use this document as a set of instructions to prepare your article. The electronic file of your paper would be formatted further by the Editorial Board of the JET-OUSL.

This document itself is an example of the desired layout for a JET-OUSL article. It contains information regarding paper format, font styles, figures, tables, equations, abbreviations, references and acronyms.

2 FORMAT OF MANUSCRIPT

The paper should be written in A4 (210mm by 297mm) size in single column, with single line spacing and fully justified. The margins should be 2.8 cm on left and 2.8 cm on right and 2.5 cm on top and 2.8 cm on bottom. Distance from edge must be 0.5 cm for the header and 1.5 cm for the footer. The suggested length of a paper would be 4000 – 10,000

words not exceeding 15 pages. All fonts should be Book Antiqua unless otherwise stated.

2.1 Main Title and Author Affiliation

The title of the paper must be centered at the top of the page; it has to be Book Antiqua 16pt in bold face and Title format. Leave two line spaces of 11 pts and give the name(s) of the author(s). The font size of the authors is 11pts. Affiliations of authors should be indicated by numerical superscripts as shown. The corresponding author should be indicated by *, and relevant contact details should be provided after listing of all author affiliations.

2.2 Abstract and Keywords

Leave one line space of 11 pts and then give the abstract in 10pt normal italic. Before the body of the abstract and the keywords, the terms '**Abstract -**' and '**Keywords:**' should come in bold 10 pts, respectively.

The abstract should be 10pt italic with 1.5cm indentations on left and right sides, and body centered. The abstract should be limited to 50-200 words and should concisely state what was done, how it was done, principal results, and their significance. The abstract will appear later in various abstracts journals and should contain the most critical information of the paper. Skip a line space of 11pt between the end of the abstract and the keywords.

Keywords are usually composed of about five terms or phrases in alphabetical order, separated by commas.

2.3 Section Headings

2.3.1 Nomenclature

A nomenclature for symbols used in mathematical expressions should be given with their units of measurements just after the abstract. Heading "Nomenclature" should be in 12pt bold faced. You may use double column format for this section.

2.3.2 Primary Heading

A primary section heading is enumerated by an Arabic numerals followed by a period and is flush left. Primary heading should be in **bold** faced UPPER CASE LETTERS with 12pt font size.

2.3.3 Secondary Heading

A secondary section heading is enumerated as running on the relevant section number followed by a period and is flush left. The first letter of each important word is capitalized. The font style should be **bold faced** with 11pt font size.

2.3.4 Tertiary Heading

A tertiary section heading is enumerated as a running on the relevant secondary section number in Arabic numeral. The first letter of each important word is capitalized. The font style should be **bold faced italic** with 11pt font size.

2.4 Figures and Tables

All figures and tables must be in the text, just after and close to they are first mentioned.

2.4.1 Figures

Figures should be numbered with Arabic numerals. Do not use colours in the figures unless it is really necessary for the proper interpretation of your figures. Place figure captions below the figures with **bold faced** 11pt Book Antiqua font and centered. Do not put captions in “text boxes” linked to the figures. Do not put borders around the outside of your figures. Letters in the figure should be large enough to be readily legible when the page is reduced to B5 in print. Use aerial 10pt normal font for naming the axes of graphs. Use the abbreviation “Fig.” when figures are referenced in the text, even at the beginning of a sentence. Leave one line space of 11 pt after the figure to continue with body of the text.

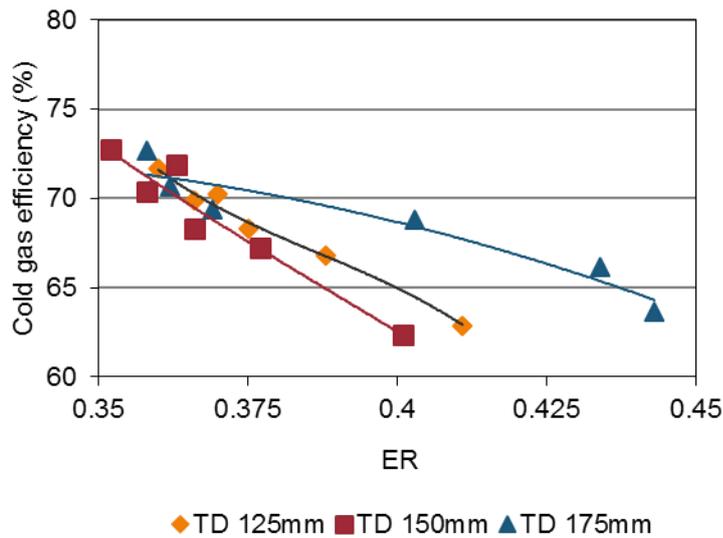


Fig. 1. Variation of Cold gas efficiency with ER at different throat diameters

24.2 Tables

Place table titles above the tables. Tables must be centered. Do not abbreviate “Table.” Tables are numbered with Arabic numerals. Leave one line space of 11 pt after the Table to continue with the body of the text.

Table 1 Comparison of performance at different throat diameters

Throat diameter (mm)	Optimum equivalence ratio	Calorific value (MJ/Nm ³)	Cold gas efficiency (%)	Specific gas production rate (Nm ³ /kg)
125	0.360	4.6	71.66	2.91
150	0.352	4.8	72.79	2.84
175	0.358	4.8	72.66	2.87

The text in the table should be 10pt normal Book Antiqua, whereas headers can be bold. Vertical grid should be hidden. The row height should be 0.6cm.

2.5 Units

Use SI units as much as possible.

3 ABBREVIATION AND ACRONYMS

Abbreviation and acronyms should be defined the first time they appear in the text, even after they have already been defined in the abstract. Do not use abbreviations in the title unless they are unavoidable.

4 UNITS

It is strongly encouraged that the authors may use SI (International System of Units) units only.

5 EQUATIONS

Equations should be placed at the centre of the line and provided consecutively with equation numbers in parentheses flushed to the right margin, as in (1). You must use Microsoft Equation Editor or Mathtype.

Be sure that the symbols used in your equation have been defined before the equation appears or immediately following.

$$h_r = \varepsilon_{app} \sigma \frac{(T_{sx}^4 - T_{amb}^4)}{(T_{sx} - T_{amb})} \quad (1)$$

6 CONCLUSION

Even though a conclusion may review the main results or contributions of the paper, do not duplicate the abstract or the introduction. For a conclusion, you might elaborate on the importance of the work or suggest the potential applications and extensions.

7 APPENDIX

Appendixes, if needed, appear before the acknowledgment.

8 ACKNOWLEDGEMENTS

This work was supported by Editorial Board of the Journal of Engineering and Technology of the Open University of Sri Lanka.

REFERENCES

This heading is not assigned a number. For citation and referencing Harvard System (Author, Date System) should be used. General rules of referencing can be found in <http://libweb.anglia.ac.uk/referencing/harvard.htm> . Additionally Harvard referencing guide published by the Commonwealth of Australia is available in the Staff Section of Faculty of Engineering website.