

# Template for Journal of Engineering Technology

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**Abstract:** All manuscripts must include a brief but informative Abstract intelligible without reference to the main text. It should not exceed 100 words and should describe the scope, hypothesis or rationale for the work and the main findings. Both common and scientific names should be included; the authorities are not given if they appear in the title. References to the literature and mathematical symbols/equations should not be included. Abstract must include following sections: **Problem statement:** This section should include answers of the questions: Why was research needed? What was the context of the work? Introduce the problem or provide background for what you will address **Approach:** What did you do and how did you go about solving or making progress on the problem. Describe the method of research, study, or analysis applied to the problem. **Results:** What results did you get? State what you found and relate it to the problem. Summarize the major results in numbers; avoid vague, hand waving results such as “very small” or “significant” **Conclusions/Recommendations:** What are the implications of your answer? State the relevance, implications, or significance of the results or conclusions, to the business. Significance of work is often implied by the recommendations or implications for future work.

**Keywords:** Key words (3-5) should be provided below the Abstract to assist with indexing of the article. These should not duplicate key words from the title

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### 1.0 INTRODUCTION

This section should include sufficient background information to set the work in context. The aims of the manuscript should be clearly stated. The introduction should not contain either findings or conclusions.

### 2.0 MATERIALS AND METHODS

This should be concise but provide sufficient detail to allow the work to be repeated by others.

### 3.0 RESULTS

Results should be presented in a logical sequence in the text, tables and figures; repetitive presentation of the same data in different forms should be avoided. The results should not contain material appropriate to the Discussion.

**Tables:** should be self-contained and complement, but not duplicate, information contained in the text. Tables should be numbered consecutively in Arabic numerals. Each table should be presented on a separate page with a

comprehensive but concise legend above the table. Tables should be double-spaced and vertical lines should not be used to separate columns. Column headings should be brief, with units of measurement in parentheses; all abbreviations should be defined in footnotes. Use superscript letters (not numbers) for footnotes and keep footnotes to a minimum. \*, \*\*, \*\*\* should be reserved for P values. The table and its legend/footnotes should be understandable without reference to the text.

**Figures:** Only scientifically necessary illustrations should be included. All illustrations (line drawings and photographs) are classified as figures. Figures should be cited in consecutive order in the text. Each figure should be labeled on the back in very soft marker or chinagraph pencil, indicating name of author(s), figure number and orientation. (Do not use an adhesive label.) Figures should be sized to fit within the column (82 mm) or the full text width (171 mm). Line figures should be supplied as sharp, black and white graphs or diagrams, drawn professionally or with a computer graphics package; lettering should be included. Photographs should be supplied as sharp, glossy, black and white photographic prints and must be

unmounted. Individual photographs forming a composite figure should be of equal contrast, to facilitate printing and should be accurately squared. Magnifications should be indicated using a scale bar on the illustration. Graphics should be supplied as high resolution (at least 300 d.p.i.) electronic files, saved as .eps or .tif format. A high resolution print-out must also be provided. Digital images supplied only as low-resolution print-outs cannot be used.

**Colour figures:** Colour photographs should be submitted as good quality, glossy colour prints. Authors have to bear the cost of colour printing.

**Figure legends:** Legends should be self-explanatory and typed on a separate sheet. The legend should incorporate definitions of any symbols used and all abbreviations and units of measurement should be explained so that the figure and its legend is understandable without reference to the text. (Provide a letter stating copyright authorization if figures have been reproduced from another source.)

**Abbreviation and units:** SI units (metre, kilogram etc.), as outlined in the latest edition of Units, Symbols and Abbreviations: A Guide for Medical and Scientific Editors and Authors (Royal Society of Medicine Press, London), should be used wherever possible. Statistics and measurements should always be given in figures; that is, 10 mm, except where the number begins the sentence. When the number does not refer to a unit measurement, it is spelt out, except where the number is greater than nine. Use only standard abbreviations. The word 'Figure' should be shortened to Fig. unless starting a sentence.

**Scientific names:** The complete scientific name (genus, species and authority) and cultivar or strain where appropriate, should be given for all animals when first mentioned; authorities are not needed for plants. The generic name may be abbreviated to an initial in subsequent references except at the start of sentences and where intervening references to other genera would cause confusion.

#### 4.0 DISCUSSION

This should consider the results in relation to any hypotheses advanced in the Introduction and place the study in the context of other work. Only in exceptional cases should the Results and Discussion sections be combined.

#### 5.0 CONCLUSION

**What are the implications of your answer?** Is it going to change the world (unlikely), be a significant "win", be a nice hack, or simply serve as a road sign indicating that

this path is a waste of time (all of the previous results are useful). **Are your results general, potentially generalizable, or specific to a particular case?**

#### REFERENCES

Bibliographic references in the text appear like<sup>[1,2,5,6]</sup>, using square brace in superscript. References should be numbered consecutively, with style:

#### Journal

- J. F. Fuller, E. F. Fuchs, and K. J. Roesler, "Influence of harmonics on power distribution system protection," *IEEE Transaction on Power Delivery*, vol. 3, pp. 549-557, 1988.
- R. J. Vidmar. (1992, Aug.). On the use of atmospheric plasmas as electromagnetic reflectors. *IEEE Transaction on Plasma Science*. [Online]. 21(3), pp. 876-880. Available: <http://www.halcyon.com/pub/journals/21ps03-vidmar>

#### Book

- G. O. Young, "Synthetic structure of industrial plastics," in *Plastics*, 2nd ed., vol. 3, J. Peters, Ed. New York: McGraw-Hill, 1964, pp. 15-64.

#### Conference Proceeding

- J. L. Alqueres and J. C. Praca, "The Brazilian power system and the challenge of the Amazon transmission," in *Proc. 1991 IEEE Power Engineering Society Transmission and Distribution Conference*, pp. 315-320.