



Rule Book

FOR

AVALON 2019

**NATIONAL LEVEL
TECHNICAL PAPER PRESENTATION
AND
PROJECT COMPETITION**

BY

TERNA ENGINEERING COLLEGE

Sector 22, Nerul(W), Navi Mumbai 400706

AVALON 2019

NATIONAL LEVEL PROJECT COMPETITION &
TECHNICAL PAPER PRESENTATION



General Rules & Regulations

1. Submit the receipt of the amount paid for TPP or PROJECT to complete the registration process and get the Code No. according to your category on the day of competition.
2. Participants must carry their valid college identity card of the current academic year.
3. Participants are requested to co-operate with the security staff and volunteers.
4. Participants must write the code tag given to them at the time of presentation on their paper as well as project model and its poster. Example: TPPO__ FOR TPP and PO__ for the project.
5. Do not disclose your college name at any point beyond the registration desks.
6. Participants should NOT wear their college identity cards while in competition.
7. Participation in events is open to students of Diploma and Degree College.
8. Photography/Videography during events is prohibited.
9. In case of emergency, participants are requested to contact the nearest volunteer(s) for assistance.
10. Damage to property shall be treated as a serious offense.
11. The organizers reserve the right to change and/or alter rules as and when required without prior notice.

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Guidelines for Preparation of Abstract

1. Submit the actual word .docx file or .pdf of your paper at <https://ternaengg.ac.in/avalon2019>
2. The abstract should be constructed without any subtitles. It should introduce the topic, research methodology, and results, etc. References should not be included in the abstract. The maximum length of the abstract should be 200 words.
3. Mention at least 4-5 keywords.
4. The research project must have a suitable title not more than 2 lines in Bold, Times New Roman font with size 14 and 1 line spacing.
5. Prepare abstract in MS Word, Times New Roman font with size 12 and 1.5 line spacing on A4 paper size.

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Guidelines for Technical Paper Writing

(Review or Research Paper)

1. Strictly follow the IEEE Format only for writing papers . No other formats will be accepted.
2. Submit the actual word .docx file or .pdf of your paper as per the date that will be displayed later via email at <https://ternaengg.ac.in/avalon2019>
3. The Paper should contain relevant pictures and tables.
4. Give proper correct references as mentioned in the IEEE Format. Take help from the internet or your teachers if required.
5. The article should be original.
6. The language will be English with zero spelling/ grammar mistake.
7. The paper should have abstract-main content-conclusion-reference as per IEEE format.
8. Our editor and professors will review your paper.
9. Depending on the review we will publish your paper in IJIIRD.
10. If it is required to edit your papers after the review, we will help you.
11. All the best - Team Avalon 2019

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Guidelines for PowerPoint Presentation

1. The powerpoint presentation can be made using any tool but the supporting file must be carried by the presenter.
2. If you are using Prezi make sure to make it a Portable Prezi after all the edits.
3. Slides should be in English.
4. If you have any videos, please try to put it in the presentation itself or add it in the same folder which contains your presentation.
5. Keep your pen drive virus-free. Possibly save only one folder containing the important files related to your research project in your pen drive to avoid delays.
6. Use minimum text on the slide(s).
7. Make presentation using suitable pictures / diagrams / graphs / tables, etc.
8. Keep the slides limited so as to finish presentation within 7 minutes.
9. The title of the Research Project should be mentioned on the first slide. Other slides can include all relevant data.
10. Introduce yourself only with the code number (To be given at the time of registration) during the presentation.

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Guidelines for Project Competition

1. The model with the code number (given at the time of registration) must be displayed in the place allotted immediately after the registration. Do not write the name of the participant or the college on the model.
2. Submit the actual word .docx file or .pdf of your paper as per the date that will be displayed later via email at <https://ternaengg.ac.in/avalon2019>
3. Make a poster of your project on an A3 or A2 sized sheet and use it for presenting the model of your project to the judges. This leaves an extra impact and a good impression. (This step is not at all compulsory)*.
4. The model may be working or non-working. Do not use thermocol for preparation of non-working model. It is advised to use environmentally friendly materials for preparation of non-working model. More weightage will be given to working model.
5. Use of fireworks/arms during the model presentation is strictly prohibited.
6. Communicate with the additional student in-charge (table, chair, electricity points, etc.) if required for the display of the model to the organizing college prior to the competition.
7. Keep your Model as simple as possible so that it occupies less space and other projects can be accommodated easily.
8. Please carry all the equipments like extension boards, batteries, power supply etc. that would be required for the optimal functioning of your project.
9. All the contestants are requested to be at the exact mentioned time so that setting up the project will be smooth and easy.

IEEE FORMAT

Paper Title* (use style: *paper title*)

Subtitle as needed (*paper subtitle*)

Authors Name/s per 1st Affiliation (*Author*)

line 1 (of *Affiliation*): dept. name of organization
line 2-name of organization, acronyms acceptable
line 3-City, Country
line 4-e-mail address if desired

Authors Name/s per 2nd Affiliation (*Author*)

line 1 (of *Affiliation*): dept. name of organization
line 2-name of organization, acronyms acceptable
line 3-City, Country
line 4-e-mail address if desired

Abstract—This electronic document is a “live” template and already defines the components of your paper [title, text, heads, etc.] in its style sheet. ***CRITICAL: Do Not Use Symbols, Special Characters, or Math in Paper Title or Abstract.** (*Abstract*)

Keywords—*component; formatting; style; styling; insert (key words)*

I. INTRODUCTION (*HEADING 1*)

This template, modified in MS Word 2007 and saved as a “Word 97-2003 Document” for the PC, provides authors with most of the formatting specifications needed for preparing electronic versions of their papers. All standard paper components have been specified for three reasons: (1) ease of use when formatting individual papers, (2) automatic compliance to electronic requirements that facilitate the concurrent or later production of electronic products, and (3) conformity of style throughout a conference proceedings. Margins, column widths, line spacing, and type styles are built-in; examples of the type styles are provided throughout this document and are identified in italic type, within parentheses, following the example. Some components, such as multi-leveled equations, graphics, and tables are not prescribed, although the various table text styles are provided. The formatter will need to create these components, incorporating the applicable criteria that follow.

II. EASE OF USE

A. *Selecting a Template (Heading 2)*

First, confirm that you have the correct template for your paper size. This template has been tailored for output on the A4 paper size. If you are using US letter-sized paper, please close this file and download the file “MSW_US1tr_format”.

B. *Maintaining the Integrity of the Specifications*

The template is used to format your paper and style the text. All margins, column widths, line spaces, and text fonts are prescribed; please do not alter them. You may note peculiarities. For example, the head margin in this template measures proportionately more than is customary. This measurement and others are deliberate, using specifications that anticipate your paper as one part of the entire proceedings,

and not as an independent document. Please do not revise any of the current designations.

III. PREPARE YOUR PAPER BEFORE STYLING

Before you begin to format your paper, first write and save the content as a separate text file. Keep your text and graphic files separate until after the text has been formatted and styled. Do not use hard tabs, and limit use of hard returns to only one return at the end of a paragraph. Do not add any kind of pagination anywhere in the paper. Do not number text heads—the template will do that for you.

Finally, complete content and organizational editing before formatting. Please take note of the following items when proofreading spelling and grammar:

A. *Abbreviations and Acronyms*

Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

B. *Units*

- Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as “3.5-inch disk drive.”
- Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity that you use in an equation.
- Do not mix complete spellings and abbreviations of units: “Wb/m²” or “webers per square meter,” not “webers/m².” Spell units when they appear in text: “...a few henries,” not “...a few H.”
- Use a zero before decimal points: “0.25,” not “.25.” Use “cm³,” not “cc.” (*bullet list*)

Identify applicable sponsor/s here. If no sponsors, delete this text box (*sponsors*).

C. Equations

The equations are an exception to the prescribed specifications of this template. You will need to determine whether or not your equation should be typed using either the Times New Roman or the Symbol font (please no other font). To create multileveled equations, it may be necessary to treat the equation as a graphic and insert it into the text after your paper is styled.

Number equations consecutively. Equation numbers, within parentheses, are to position flush right, as in (1), using a right tab stop. To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Italicize Roman symbols for quantities and variables, but not Greek symbols. Use a long dash rather than a hyphen for a minus sign. Punctuate equations with commas or periods when they are part of a sentence, as in

$$\alpha + \beta = \gamma \quad (1)$$

Note that the equation is centered using a center tab stop. Be sure that the symbols in your equation have been defined before or immediately following the equation. Use "(1)," not "Eq. (1)" or "equation (1)," except at the beginning of a sentence: "Equation (1) is ..."

D. Some Common Mistakes

- The word "data" is plural, not singular.
- The subscript for the permeability of vacuum μ_0 , and other common scientific constants, is zero with subscript formatting, not a lowercase letter "o."
- In American English, commas, semi-colons, periods, question and exclamation marks are located within quotation marks only when a complete thought or name is cited, such as a title or full quotation. When quotation marks are used, instead of a bold or italic typeface, to highlight a word or phrase, punctuation should appear outside of the quotation marks. A parenthetical phrase or statement at the end of a sentence is punctuated outside of the closing parenthesis (like this). (A parenthetical sentence is punctuated within the parentheses.)
- A graph within a graph is an "inset," not an "insert." The word alternatively is preferred to the word "alternately" (unless you really mean something that alternates).
- Do not use the word "essentially" to mean "approximately" or "effectively."
- In your paper title, if the words "that uses" can accurately replace the word using, capitalize the "u"; if not, keep using lower-cased.
- Be aware of the different meanings of the homophones "affect" and "effect," "complement" and "compliment," "discreet" and "discrete," "principal" and "principle."
- Do not confuse "imply" and "infer."

- The prefix "non" is not a word; it should be joined to the word it modifies, usually without a hyphen.
- There is no period after the "et" in the Latin abbreviation "et al."
- The abbreviation "i.e." means "that is," and the abbreviation "e.g." means "for example."

An excellent style manual for science writers is [7].

IV. USING THE TEMPLATE

After the text edit has been completed, the paper is ready for the template. Duplicate the template file by using the Save As command, and use the naming convention prescribed by your conference for the name of your paper. In this newly created file, highlight all of the contents and import your prepared text file. You are now ready to style your paper; use the scroll down window on the left of the MS Word Formatting toolbar. $\alpha + \beta = \gamma.$ (1) (1)

A. Authors and Affiliations

The template is designed so that author affiliations are not repeated each time for multiple authors of the same affiliation. Please keep your affiliations as succinct as possible (for example, do not differentiate among departments of the same organization). This template was designed for two affiliations.

1) For author/s of only one affiliation (Heading 3): To change the default, adjust the template as follows.

a) Selection (Heading 4): Highlight all author and affiliation lines.

b) Change number of columns: Select the Columns icon from the MS Word Standard toolbar and then select "1 Column" from the selection palette.

c) Deletion: Delete the author and affiliation lines for the second affiliation.

2) For author/s of more than two affiliations: To change the default, adjust the template as follows.

a) Selection: Highlight all author and affiliation lines.

b) Change number of columns: Select the "Columns" icon from the MS Word Standard toolbar and then select "1 Column" from the selection palette.

c) Highlight author and affiliation lines of affiliation 1 and copy this selection.

d) Formatting: Insert one hard return immediately after the last character of the last affiliation line. Then paste down the copy of affiliation 1. Repeat as necessary for each additional affiliation.

e) Reassign number of columns: Place your cursor to the right of the last character of the last affiliation line of an even numbered affiliation (e.g., if there are five affiliations, place your cursor at end of fourth affiliation). Drag the cursor up to highlight all of the above author and affiliation lines. Go to Column icon and select "2 Columns". If you have an odd

number of affiliations, the final affiliation will be centered on the page; all previous will be in two columns.

B. Identify the Headings

Headings, or heads, are organizational devices that guide the reader through your paper. There are two types: component heads and text heads.

Component heads identify the different components of your paper and are not typically subordinate to each other. Examples include ACKNOWLEDGMENTS and REFERENCES, and for these, the correct style to use is "Heading 5." Use "figure caption" for your Figure captions, and "table head" for your table title. Run-in heads, such as "Abstract," will require you to apply a style (in this case, italic) in addition to the style provided by the drop down menu to differentiate the head from the text.

Text heads organize the topics on a relational, hierarchical basis. For example, the paper title is the primary text head because all subsequent material relates and elaborates on this one topic. If there are two or more sub-topics, the next level head (uppercase Roman numerals) should be used and, conversely, if there are not at least two sub-topics, then no subheads should be introduced. Styles named "Heading 1," "Heading 2," "Heading 3," and "Heading 4" are prescribed.

C. Figures and Tables

1) *Positioning Figures and Tables: Place figures and tables at the top and bottom of columns. Avoid placing them in the middle of columns. Large figures and tables may span across both columns. Figure captions should be below the figures; table heads should appear above the tables. Insert figures and tables after they are cited in the text. Use the abbreviation "Fig. 1," even at the beginning of a sentence.*

TABLE I. TABLE STYLES

Table Head	Table Column Head		
	Table column subhead	Subhead	Subhead
copy	More table copy ^a		

^a Sample of a Table footnote. (Table footnote)
b.

We suggest that you use a text box to insert a graphic (which is ideally a 300 dpi resolution TIFF or EPS file with all fonts embedded) because this method is somewhat more stable than directly inserting a picture.

To have non-visible rules on your frame, use the MSWord "Format" pull-down menu, select Text Box > Colors and Lines to choose No Fill and No Line.

Fig. 1. Example of a figure caption. (figure caption)

Figure Labels: Use 8 point Times New Roman for Figure labels. Use words rather than symbols or abbreviations when writing Figure axis labels to avoid confusing the reader. As an

example, write the quantity "Magnetization," or "Magnetization, M," not just "M." If including units in the label, present them within parentheses. Do not label axes only with units. In the example, write "Magnetization (A/m)" or "Magnetization (A (m(1)," not just "A/m." Do not label axes with a ratio of quantities and units. For example, write "Temperature (K)," not "Temperature/K."

ACKNOWLEDGMENT (Heading 5)

The preferred spelling of the word "acknowledgment" in America is without an "e" after the "g." Avoid the stilted expression "one of us (R. B. G.) thanks ...". Instead, try "R. B. G. thanks...". Put sponsor acknowledgments in the unnumbered footnote on the first page.

REFERENCES

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]—do not use "Ref. [3]" or "reference [3]" except at the beginning of a sentence: "Reference [3] was the first ..."

Number footnotes separately in superscripts. Place the actual footnote at the bottom of the column in which it was cited. Do not put footnotes in the reference list. Use letters for table footnotes.

Unless there are six authors or more give all authors' names; do not use "et al.". Papers that have not been published, even if they have been submitted for publication, should be cited as "unpublished" [4]. Papers that have been accepted for publication should be cited as "in press" [5]. Capitalize only the first word in a paper title, except for proper nouns and element symbols.

For papers published in translation journals, please give the English citation first, followed by the original foreign-language citation [6].

- [1] G. Eason, B. Noble, and I.N. Sneddon, "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," Phil. Trans. Roy. Soc. London, vol. A247, pp. 529-551, April 1955. (references)
- [2] J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68-73.
- [3] I.S. Jacobs and C.P. Bean, "Fine particles, thin films and exchange anisotropy," in Magnetism, vol. III, G.T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271-350.
- [4] K. Elissa, "Title of paper if known," unpublished.
- [5] R. Nicole, "Title of paper with only first word capitalized," J. Name Stand. Abbrev., in press.
- [6] Y. Yorozu, M. Hirano, K. Oka, and Y. Tagawa, "Electron spectroscopy studies on magneto-optical media and plastic substrate interface," IEEE Transl. J. Magn. Japan, vol. 2, pp. 740-741, August 1987 [Digests 9th Annual Conf. Magnetics Japan, p. 301, 1982].
- [7] M. Young, The Technical Writer's Handbook. Mill Valley, CA: University Science, 1989.

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