BUP Place Indicate

BANGLADESH UNIVERSITY OF PROFESSIONALS

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Call for Papers

Bangladesh University of Professionals (BUP)
Faculty of Science and Technology (FST)
BUP Journal of Science and Technology

Volume-1, Issue-1, July 2022

We are pleased to announce that FST of BUP is going to publish its yearly BUP JOURNAL OF SCIENCE AND TECHNOLOGY, Volume-1, Issue-I very shortly. In future, required steps will be taken soon for Indexing and Ranking. For further information contact the editorial office at the following email address: journal.fst@bup.edu.bd

The journal welcomes various types of submission format: full research articles, short communications, book reviews, policy analysis and review articles. It encourages the submission of high-quality articles concerning the fundamentals of Electrical and Electronics Engineering, Computer Science and Engineering, Information and Communication Technology, Environmental Science and Management. Some important topics are as follows:

- Electric Power Engineering
- Electric Machinery and Power Electronics
- Electro physics & Applications
- Electric Material and Semiconductor
- High Power, High Voltage and Discharge
- Micro-Electro-Mechanical Systems (MEMS)
- Nanotechnology
- Microwave Engineering
- Radar and Satellite communications
- Optical fiber communication
- Optical and EM Wave
- Sensors and Systems
- Signal Processing
- Robotics, Automation and Control
- Application of AI in Smart Education System
- Natural Language Processing
- ICT in Education 4.0

- Industrial Internet of Things (IoT)
- Mobile Computing for Industry
- IoT and WSN for Smart City Applications
- Cloud Computing and Networking
- Grid and Metering Infrastructure
- Smart Transportation System
- Big Data and Machine Learning
- Natural Language Processing and Text Mining
- Data Mining for Biomedical Engineering
- Electronic Health Records and Standards
- Wearable and Body Implant Technologies
- ICT in Telemedicine
- Collaborative and Cooperative Education System
- Smart Learning System
- Cloud-IoT Platforms for Small to Large Scale Farming
- Applications of AI and Machine Learning
- Sustainable and Green Technology
- Hydrology

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A.



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- Cyber Physical Systems
- Cyber Physical Systems for Smart Farming
- Smart Waste Management
- Environmental Management
- Environmental Pollution and Mitigation
- Environmental Chemistry
- Environmental Engineering
- Environmental Modelling
- Environmental Economics
- Environmental Technology
- Biological Pollution in Environment
- Ecology and Biodiversity
- Earth Science
- Oceanography
- Environmental Policy and Governance

- Environmental Impact Assessment and Environmental Audit System
- Water Resource Management
- Occupational Health and Safety
- Integrated coastal Zone and Floodplain Management
- Climate Change Adaptation and Mitigation
- Disaster Risk Reduction and Disaster Management
- Sustainable Urban Planning and Development
- Sustainable Energy Management
- Agriculture and Environment

All are cordially invited to submit articles for publication in the said journal. The Editorial Board

will meet to review the articles for the journal soon after receiving them.

Guidelines for Authors

Before the Beginning

Authors are requested to review the guidelines and template before their submission. All information will be available at the website of Bangladesh University of Professionals through this link www.bup.edu.bd/publications. After considering all the guidelines authors can send their manuscripts and other required documents to the following email address: journal.fst@bup.edu.bd

Submission Checklist

You can use this list to carry out a final check of your submission before you send it to the journal for review.

Please ensure that the following items are present:

One author has been designated as the corresponding author with contact details:

- E-mail address
- Full postal address

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The Manuscript should have the following information:

- Title Page (Title of the study, Corresponding author's details, Co-author's details)
- Abstract
- Keywords (maximum 6)
- Main body (Introduction, Methodology, Result and discussion, Conclusion)
- References
- All figures (include relevant captions)
- All tables (including titles, description, footnotes)
- Indicate clearly if color should be used for any figures in print
- Graphical Abstracts / Highlights files (where applicable)
- Supplemental files (where applicable)
- Follow the template provided on the website for this journal.

Authors should also consider the following points before their manuscript submissions:

- This journal considers manuscript written in English.
- References follow this journal's prescribed format.
- All references mentioned in the Reference List are cited in the text.
- Permission for 3rd party information and ethical approval (where applicable).
- Manuscript should be 'spell checked' and 'grammar checked'.
- Permission should be obtained for the use of copyrighted material from other sources (including the Internet).
- Declaration of Conflict of Interest.

Submission Declaration and Verification

Submission of an article implies that the work described has not been published previously, that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright holder.

To verify originality, your article may be checked by the originality detection service/ Similarity Checker.

Word Limit

Articles submitted to **BUP Journal of Science and Technology** should normally have a maximum word count of 2500 for short communications, 5000 for policy analyses, 6000 for research articles and 8000 for synthesis or review articles. Flexibility with this limit may be exercised at the discretion of the handling Editor based on the quality of the Article. In general, authors are requested to write concisely and avoid overly long articles.

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OUP,

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Essential title page information

- *Title*. Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- Author names and affiliations. Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. Present the authors' affiliation addresses (where the actual work was done) below the names. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.
- Corresponding author. Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. This responsibility includes answering any future queries about Methodology and Materials. Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.
- Present/permanent address. If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address.

References

Please follow APA style.

Submission

The last date of manuscript submission for the current issue is 31st May 2022. All correspondence, including notification of the editor's decisions and requests for revision will be sent by e-mail. For further information contact the editorial office at the following email address:

journal.fst@bup.edu.bd

Sincerely yours

Professor Dr Kazi Abu Taher

Editor

BUP Journal of Science and Technology

Paper Title* (use style: paper title)

Subtitle if needed (paper subtitle)

Authors Name1

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 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 builtin; 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 multileveled 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. Literature review of the articles may be discussed here.

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 US-letter paper size. If you are using A4-sized paper, please close this file and download the file "MSW_A4_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 headsthe 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 out 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)

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

$$a+b=\gamma \tag{1}$$

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.

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 topically 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. Runin 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

a) 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 TYPE STYLES

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

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

We suggest that you use a text box to insert a graphic (which is ideally a 300 dpi TIFF or EPS file, with all fonts embedded) because, in an MSW document, 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]. Follow APA style.

- 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.