

# Upgrading Higher Education through Open Online Courses

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**Abstract** — The article examines the importance of introducing open online courses into higher education in order to make it more spectacular and accessible. The stages of emergence and development of online courses among directions of remote education have been studied. Organizational and methodological aspects of development of online education in universities are revealed, barriers and prerequisites of use of online courses in educational process are analyzed. The characteristics of two types of such courses are considered, their advantages and disadvantages are analyzed, as well as possible ways of using already available massive online open courses are highlighted.

**Index Terms** — Higher education, distance education, online open courses.

## I. INTRODUCTION (*HEADING 1*)

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Wherever Times is specified, Times Roman or Times New Roman may be used. If neither is available on your word processor, please use the font closest in appearance to Times. Avoid using bit-mapped fonts. True Type 1 or Open Type fonts are required. Please embed all fonts, in particular symbol fonts, as well, for math, etc.

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- Use either SI 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”.
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$$\alpha + \beta = \chi. \quad (1)$$

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- The word “data” is plural, not singular.

- The subscript for the permeability of vacuum  $\mu_0$ , 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.)
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- There is no period after the “et” in the Latin abbreviation “et al.”.
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An excellent style manual for science writers is given by Young [7].

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

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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”.

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TABLE I. TABLE TYPE STYLES

Table Head	Table Column Head		
	<i>Table column subhead</i>	<i>Subhead</i>	<i>Subhead</i>
copy	More table copy <sup>a</sup>		

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To have non-visible rules on Example of a figure caption. (*figure caption*) your frame, use the MSWord pull-down menu, select Format > Borders and Shading > Select ”None”.

a. Sample of a table footnote. (*table footnote*)

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

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## REFERENCES

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Unless there are six authors or more give all authors' names and 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.
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