PRINT: ISSN 0975-1122 ONLINE: ISSN 2456-6322 International Journal of EDUCATIONAL SCIENCES

© IJES 2021 Int J Edu Sci, 34(1-3):79-92 (2021)
PRINT: ISSN 0975-1122 ONLINE: ISSN 2456-6322 DOI: 10.31901/24566322.2021/34.1-3.1213

Statistical Analysis Software (SAS) Programming Course to Enhance Computing and Coding Skills of Biotechnology Graduates: A Case Study on Learner Centric Approach

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KEYWORDS Biotechnology Curriculum. Pedagogy. Peer Learning. Project Based Learning. Skill Enhancement

ABSTRACT The current paradigm shift in Indian higher education, particularly in engineering programs, is an ICT based education with mixed galore of pedagogical techniques. Employability of engineering graduates has been at stake for quite some time, and they directly attribute it to the curriculum design. In the current market scenario, having programming skills and computational knowledge for a biotechnology graduate is essential. This paper describes the implementation of a programming course on statistical analysis software for biotechnology engineering students as a study group. Pedagogical tools such as peer interaction and project-based learning approaches are used. In this study, it is observed that the students from non-circuit branches, such as biotechnology, learn programming courses with ease through a project-based learning approach when the project groups are structurally formulated. This paper highlights a mixed pedagogical approach and evaluates the impact through direct evaluation methods and feedback queries.