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STEM-ОСВІТА В СИСТЕМІ ПІДГОТОВКИ МАЙБУТНІХ ІНЖЕНЕРІВ

Анотація. У статті розглянуті перспективні напрями STEM-освіти в системі підготовки майбутніх інженерів в умовах інформаційно-освітнього середовища. Окреслено сучасні професії, що закладають в основу проєктну та дослідницьку діяльність, реалізацію завдань моделювання різноманітних процесів і явищ та усвідомлене формування якісно нових трансдисциплінарних знань. Визначено необхідність використання STEM-орієнтованих навчальних програм у закладах вищої освіти. На основі поняття STEM-освіти визначено, якими фаховими компетентностями повинен володіти майбутній інженер. У якості впровадження елементів STEM-освіти для підготовки здобувачів вищої освіти інженерних спеціальностей запропоновано виконання STEM-проєкта, метою якого є створення конструктивного вдосконалення машини або механізму. Представлена схема впровадження елементів STEM-освіти для підготовки майбутніх інженерів в умовах інформаційно-освітнього середовища. Досліджені міжпредмети зв'язки при виконанні STEM-проєкта здобувачами вищої освіти інженерних спеціальностей. Визначено набір математичних та інженерних навичок для виконання STEM-проєкта здобувачами вищої освіти інженерних спеціальностей в умовах зазначеного середовища. Для використання елементів STEM-освіти під час виконання проєкту завдання для майбутнього інженера формуються з урахуванням розрахункової, проєктної та наукової складових. Схема впровадження елементів STEM-освіти під час виконання майбутніми інженерами завдань в умовах інформаційно-освітнього середовища повинна мати такі етапи: вибір технічного або технологічного процесу та креслення технологічної схеми, пропозиція щодо конструктивного впровадження елемента, розрахунок вдосконаленого елемента, креслення конструктивного вдосконалення, створення презентації та тестових завдань. Зазначено, що підсумки виконання проєкта з використанням елементів STEM-освіти в умовах інформаційно-освітнього середовища доцільно обговорити на конференціях чи вебінарах, представляючи презентацію свого проєкту та створюючи тестові тренажери.

Ключові слова: STEM-освіта; здобувачі вищої освіти; інформаційно-освітнє середовище; майбутні інженери.

Teoretichni Osnovi Movlennevoi Pidgotovki Vchitelia

Karin Nielsen-Saines



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