
Relevance of Poetry in English for Engineering Students

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Abstract:

To promote creative thinking and the development of communication skills, we created two poetry writing assignments and integrated them into two sections of a required graduate course in an industrial and systems engineering program. The first assignment, planned for the beginning of the semester, asked students to write a poem about themselves in a specific poetic form. The second assignment, due at the end of the semester, asked students to write a poem about a technical topic in the course using the same poetic form. At the end of the semester, poems from 52 students who agreed to participate in the study were collected and recorded as data. We qualitatively thematically analyzed a subset of these poems using open and axial coding and constant comparisons. In this article, we discuss the details of the chosen poetic form, describe our approach to content analysis using a mixed methods approach, present our preliminary results, and discuss the potential benefits of writing poetry for creative thinking and the development of Communication Skills. Perspective and Reflection, Stress Relief and Well-being, Interdisciplinary Connections, Critical Thinking and Analysis, Emotional Intelligence, Effective Communication, and Development of Communication Skills in Engineering Education.

Keywords: Critical analysis, Engineering education, perspective, stress relief.

1.Introduction

21st Century Skills is a set of skills necessary for professional success in the Information Age. The four most important skills are critical thinking, creative

thinking, collaboration, and communication [1]. Although the survey's results are unknown to us, participant comments suggested that both the contestants and the judges had a favorable experience [2, 3, 4]. All of the previous research, with the exception of one [5], concentrated on how to include poetry in advanced technical school curricula. More significantly, no research has been done yet on how thoroughly the student-written poems were analyzed to determine how much poetry writing could improve instruction and learning in engineering schools. Due to the emotions reflected, a closed coding approach was chosen. I coded each line of the poem as follows: Reflects one of the eight basic emotions of a human being: (i) trust, (ii) joy, (iii) expectation, (iv) sadness, (v) disgust, (vi) fear, (vii) anger, (viii) surprise [6]. Through our work, we aim to fill this important gap. Specifically, we investigate this using content analysis. The resulting data will be used to examine poems written by students and provide insight into how poems can achieve this. Promote the development of creative thinking and communication skills in engineering students. Christy AD [7] organized a poetry contest open to all students, faculty, staff, and alumni of the university. The Ohio State University Department of Agricultural and Biological Engineering. Competition. The judges were recruited from the English department. Participants could write poems about technical and non-technical subjects. A survey tool to measure attitudes towards creativity, The role of humanities in communication and technical education, and before and after poetry. A contest was organized [8]. The field of educational research, also known as action research or teacher research Research, is a tool for understanding classroom learning situations. Educational research provides insight into how students learn by supporting them. Teachers use the classroom as a laboratory to explore learning (Mills, 2000; Sagor, 2000. Burnaford et al., 2001; Johnson, 2005) [9]. This research focuses on design technology and language classes, which can be a way to improve student performance. It provides some evidence that design technology can improve student achievement and performance. In another study, one researcher said, "We were observing these students." Participation in the technical design unit provided valuable learning and Sound acquisition of transferable problem-solving skills and [science] Concepts" (Yocom et al., 2006) [10]. Design projects also depend on their interests and previous knowledge. For students with standard skills, Paper and pencil activities are not as powerful, but design techniques make it possible Seem.

Research shows that a variety of disabilities can take the initiative as Designers and Builders (Koch & Burghardt, 2002) [11]. Combining design project

activities with the creative endeavor of writing Poetry allows students to express their own original ideas in these two places. The advantages of Poetry can be compared to the benefits of working with design technology. Route man (1990) offers some advantages of poetry [12]. We conduct research to improve the creative thinking and communication skills of engineering students. Incorporating poetry into a required high school course at a large public university Industrial and Systems Engineering Curriculum. Poetry was a means of communication. It is used to convey stories and detailed descriptions of historical events from one generation to the next. Additionally, poetry as an art form is an important tool for imaginative or creative self-expression. As a matter of fact, poetry is used to promote creative thinking, imagination, contemplation, etc. Communication skills are widely recognized in several scientific fields, including medicine. [13, 14, 15]. Akinkurolere et al. (2020) Using the speech act approach in education, Nigerian English could improve performance not only in internal exams but also in students, not only in school but in external exams. These include West Africa, etc. High school graduation level certification exam/national exam Economic and Technical Review Board and National Examinations Council. So, make every effort To improve student performance. English can never be overemphasized [16]. Through theater education and the use of theater, I was able to receive lessons from various perspectives. An old scholar. These studies include Dowdy and Kaplan (2011), Daudi (2008), and El Nadi (2000); a poetry class was also held. Academic attention (Dowdy 2002; Dowdy 2010) [17,18,19]. Of note is the application of recent research. Interdisciplinary or disciplinary approach Considering the teaching method, Using a dramatic or dramatic approach, What is considered literary genres? Lessons in poetry, another literary genre, acquired among university students the scientific attention that the research aims to achieve: Investigate performance impact. We will supervise research for selected students.

2. Methodology

Creativity and Innovation:

Poetry encourages thinking outside conventional boundaries, fostering creativity. Metaphors and symbolism in poetry can inspire engineers to approach problems with fresh perspectives. Creative thinking is crucial in engineering design and problem-solving, where innovative solutions often lead to breakthroughs.

Effective Communication:

Engineers often need to explain technical concepts to non-experts, such as

clients or project stakeholders. Poetry emphasizes concise and impactful language, enhancing engineers' ability to convey complex ideas in a way that is accessible to diverse audiences. Improved communication skills can facilitate better collaboration and understanding between technical and non-technical team members.

Emotional Intelligence:

Poetry explores human emotions and experiences, fostering empathy and emotional intelligence. Understanding the emotional aspects of a project can lead to more user-centered design and solutions that consider the human impact. Engineers with high emotional intelligence are better equipped to navigate interpersonal relationships, collaborate effectively, and respond empathetically to user needs.

Critical Thinking and Analysis:

Analyzing poetic language hones critical thinking skills, which are transferable to engineering problem-solving. Engineers can apply the analytical skills they have developed through poetry to dissect complex technical issues, ensuring thorough and thoughtful solutions. The ability to interpret and analyze diverse forms of information is valuable in both poetry and engineering.

Perspective and Reflection:

Poetry encourages self-reflection and exploration of different viewpoints. Engineers who engage with poetry may develop a broader perspective on the societal and ethical implications of their work. Reflective thinking helps engineers make informed decisions, considering not only technical aspects but also the broader context and consequences of their actions.

Stress Relief and Well-being:

Engineering students often face high-pressure situations and demanding coursework. Engaging with poetry provides a creative and expressive outlet, promoting mental well-being and stress relief. The emotional and artistic elements of poetry can serve as a counterbalance to the logical and technical aspects of engineering studies.

Interdisciplinary Connections:

Poetry often draws inspiration from various disciplines, fostering interdisciplinary connections. Exploring connections between poetry and engineering exposes students to diverse ideas and ways of thinking. Interdisciplinary perspectives can lead to more holistic and well-rounded approaches to problem-solving. Incorporating poetry into engineering education can nurture a more versatile and well-rounded engineer, equipped not only with technical prowess but also with

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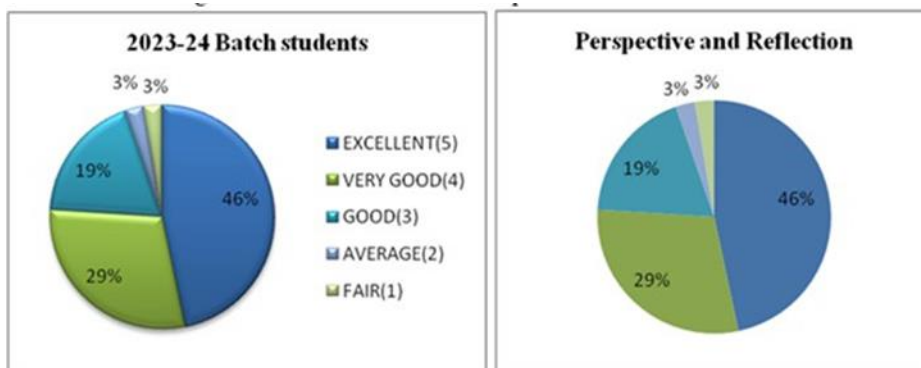
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creative, communicative, and empathetic skills that contribute to a more holistic
The desired course of study is a three credit hour required course of study. In both the fall and spring semesters, one or he is offered in two sections and approx. Each section will have 75 junior and senior students. The course material focuses on Perspective and Reflection, Stress Relief and Well-being, Interdisciplinary Connections, Critical Thinking and Analysis, and Emotional Intelligence. The course aims to develop the skills and analytical abilities of the students. The course was designed to be delivered via lectures in person. Reading assignments from current news media along with relevant skills.

3. Results

This module focuses on building language skills for speaking and writing in English about everyday situations and topics. These topics include family, lifestyle, habits, work, interests, and more. Practice grammar and vocabulary, introduce yourself, and create a personal profile. You can also explain visual elements and manage informal phone and email communications.

The test is written and presented as a creative writing part of the course. This task included three different elements of him. The students were given Assignments to write two separate tests during the semester. Furthermore, at the end Of the semester, students were asked to answer her four questions to reflect on their studies. I also have experience in these tasks. The deadline for the first task is the end of her second task. During the week's lessons, students were asked to write a test about themselves. Number 2 test: Students were asked to write a test as an assignment to be submitted during the final week of class on topics related to course material.



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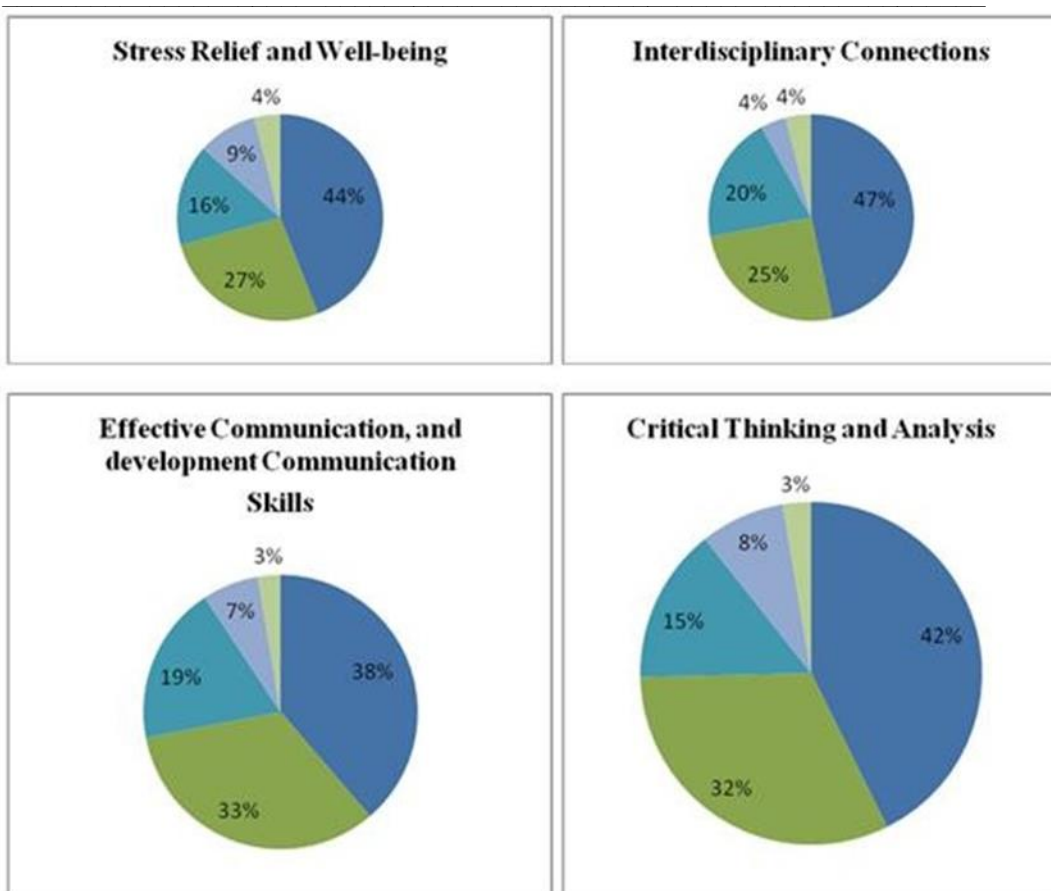


Figure: 1 Pi chart using different skills test.

Analysis of the skills tones used. 42% of 75 students test coded in Perspective and Reflection excellence. As shown in Figure 1, 29% are coded as Perspective and Reflection Excellence as very good, and 19% are coded as good. 5% average and fair Prel. iminary results based on this dataset suggest that students prefer the use of skills. Similar pie charts are shown in Stress Relief and Well-being, Interdisciplinary Connections, Effective Communication, and Development Communication Skills, Critical Thinking and Analysis. We also analyzed each poem individually. Table 1 shows summary statistics by skills test. Specifically, the average number of lines in a test that received a particular skill type. For each test, the standard deviation, minimum value, and number of codes are shown. Summary

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statistics show that the use of figurative language was most diverse in the sample, With minimum and maximum values.

Table: Results of Different Skills of Analysis Report

Analysis					
	Excellent (5)	Very Good (4)	Good (3)	Average (2)	Fair (1)
Perspective and Reflection	35	22	14	2	2
Stress Relief and Well-being	33	20	12	7	3
Interdisciplinary Connections	35	19	15	3	3
Effective Communication and development Communication Skills	29	25	14	5	2
Critical Thinking and Analysis	32	24	11	6	2

4. Conclusion:

It is important to improve the creativity and communication skills of engineering students. This refers to the development of so-called 21st-century skills. To this end, we integrated skills writing assignments into required advanced courses in industrial and systems engineering. Curriculum. Data was collected from his two sections of the course taught in spring 2023. In this article presents preliminary results obtained by analyzing a subset of five skills. We focus on analysis. Our preliminary results based on this dataset indicate that the root verb is the structure of skills that can influence the tone of the language used and the emotions reflected. This dataset also shows that skills are rich in technical content. Communicate technical concepts in simple language. More importantly, students' Feedback emphasizes the value of the task from a development perspective. Communication skills. Surprisingly, student feedback showed that the poetry assignment In fact, my understanding of technical content deepened complex topics. We will continue to analyze poems related to other inventories and supply chains. Subject. Additionally, we will use these preliminary findings in the development of our skills. Create course

supplements and consider their impact on learning outcomes with an experimental design.

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