



International Teaching Aid
Competition 2023

Reconnoitering Innovative Ideas in Postnormal Times

iTAC

2023

iTAC 2023
INTERNATIONAL TEACHING AID COMPETITION
E-PROCEEDINGS

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PREFACE

iTAC or International Teaching Aid Competition 2023 was a venue for academicians, researchers, industries, junior and young inventors to showcase their innovative ideas not only in the teaching and learning sphere but also in other numerous disciplines of study. This competition was organised by the Special Interest Group, Public Interest Centre of Excellence (SIG PICE) UiTM Kedah Branch, Malaysia. Its main aim was to promote the production of innovative ideas among academicians, students and also the public at large.

In accordance with the theme "Reconnoitering Innovative Ideas in Post-normal Times", the development of novel ideas from the perspectives of interdisciplinary innovations is more compelling today, especially in the post-covid 19 times. Post-pandemic initiatives are the most relevant in the current world to adapt to new ways of doing things and all these surely require networking and collaboration. Rising to the occasion, iTAC 2023 has managed to attract more than 267 participations for all categories. The staggering number of submissions has proven the relevance of this competition to the academic world and beyond in urging the culture of innovating ideas.

iTAC 2023 committee would like to thank all creative participants for showcasing their innovative ideas with us. As expected in any competition, there will be those who win and those who lose. Congratulations to all the award recipients (Diamond, Gold, Silver and Bronze) for their winning entries. Those who did not make the cut this year can always improve and join us again later.

It is hoped that iTAC 2023 has been a worthy platform for all participating innovators who have shown ingenious efforts in their products and ideas. This compilation of extended abstracts published as iTAC 2023 E-Proceedings contains insights into what current researchers, both experienced and novice, find important and relevant in the post-normal times.

Best regards,

iTAC 2023 Committee
Special Interest Group, Public Interest Centre of Excellence (SIG PICE)
UiTM Kedah Branch
Malaysia

i-SUFO AS TEACHING EVALUATION SYSTEM FOR LECTURER IN UITM PASIR GUDANG

Narita Binti Noh

College of Engineering, UiTM Johor Branch, Pasir Gudang Campus
naritanoh@uitm.edu.my

Nurul Azida Abdul Razak

Infostructure Unit, UiTM Johor Branch, Pasir Gudang Campus
nurulazida@uitm.edu.my

Doris Asmani Mat Yusof

College of Engineering, UiTM Johor Branch, Pasir Gudang Campus
dorisasmani@uitm.edu.my

Diana Che Lat

College of Engineering, UiTM Johor Branch, Pasir Gudang Campus
dianacl@uitm.edu.my

Mohammad Hazizi Jamal

College of Engineering, UiTM Johor Branch, Pasir Gudang Campus
mohammadhazizi@uitm.edu.my

ABSTRACT

Student feedback online (SUFO) is a must for all programs offered in UiTM as a tool for ensuring the standard quality of the program and accreditation purposed especially for Diploma in Civil Engineering. Although the SUFO result is available in U-future (online platform for teaching, learning and assessment for UiTM students). However, the result is not shared with the auditor or any third party. Hence, analysis on teaching evaluation based on SUFO should be carried out separately to confirm all lecturers achieve at least 3.0 as minimum key performance indicator as stipulated by college. Previously, SUFO data will be gathered from online survey spreadsheet and data will be transferred to master spreadsheet to produce graph for at least 5 consequences semester. Analysis and graph generation normally takes about 2 to 3 days to complete. This process is tedious and tiring for the person in charge (PIC) and sometimes, there is tendency to make mistakes while exporting data to master spreadsheet. Hence, i-SUFO is developed to improve the efficiency of data collection, storage, display, and graph generator. This system uses an online platform via shared point server. The lecturer will sign in, using Microsoft 365 account to fill in the form. The system will record the data and graph for individual performance will be displayed on the home page of the sites. Hence, lecturers would be able to monitor their performance for each semester, which is not being shown based on previous method. Immediately, for accreditation and audit purposes summary data for all lecturers is available in the summary graph

immediate after lecturer keys in the data using the system. PIC is no longer required to analyses the data because graph is automatically generated using existing pivot table in the system. Moreover, the authenticity of the data is more valid.

Keywords: SUFO, student feedback, accreditation, teaching evaluation analysis, shared point

INTRODUCTION

Student feedback has been discussed aged ago in finding the relationship of teachers' reputation toward rating and learning impact towards student (Perry et al., 1979; Abrami et al., 1982). Later, d'Apollonia and Abrami (1997) found out student rating is influenced by the nature of the courses, instructor, and administrative characteristics. Hence student feedback toward lecturer teaching evaluation is a significant impact toward learning impact among students. Hence, Student feedback online (SUFO) is a must for all programs offered in UiTM as a tool for ensuring the standard quality of the program and accreditation purposed especially for Diploma in Civil Engineering (CEEC 110 & EC110). Although the SUFO result is available in U-future. U-future is an online platform for teaching, learning and assessment for UiTM students. However, the result for SUFO is not shared with the auditor or any third party. Hence, analysis on teaching evaluation based on SUFO should be carried out separately to confirm all lecturers achieve at least 3.0 as minimum key performance indicator as stipulated by college.

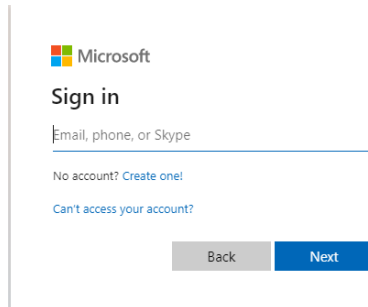
Previously, SUFO data will be gathered from online survey spreadsheet and data will be transferred to master spread sheet to produce graph for at least 5 consequences semester. Analysis and graph generation normally takes about 2 to 3 days to complete. This process is tedious and tiring for the person in charge (PIC) and sometimes, there is tendency to make mistakes while exporting data to master spreadsheet. Hence, an innovation should be done to minimize the time consumption for analysis of data and data should be transparent to the user for monitoring purposes for each semester. Therefore, i-SUFO is being developed to eliminate the difficulties and improve the efficiency of data collection, display and output to the user and PIC. However, i-SUFO has started for data collection for October 2022-Feb 2023 only. Therefore, graph comparison for 5 semesters is not available for the time being.

HOW i-SUFO WORKS FOR AN INNOVATION IN BETTERMENT OF MANAGEMENT LEVEL

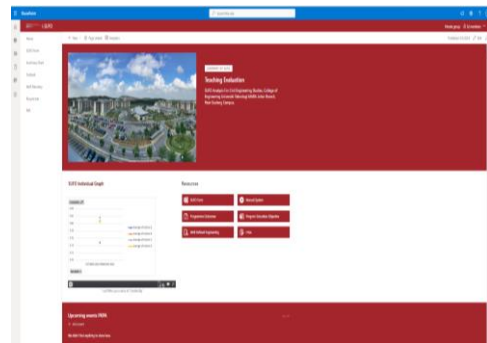
i-SUFO being developed using shared point server and would be accessed to all lecturers for EC 110 and CEEC 110 in UiTM Pasir Gudang for the pilot study. The lecturer can log into the system using Microsoft 365 account. Data will be captured based on user id from Microsoft 365 account. Therefore, cheating in data entry can be traced immediately from system. The

lecturer can fill in the form accordingly as shown in Figure 1 and graph of the individual performance will be displayed at home page of the sites. This procedure would help lecturer to see the performance of SUFO attainment of each semester and relevant action can be taken for betterment in delivering teaching and learning in future. However, it takes a few minutes to refresh depending on internet connectivity and efficiency of the devices. Meanwhile, for audit purpose and accreditation the data should be summarized on a simple graph that contains all lecturer attainment for each section. SUFO being assessed based on 4 sections which is overall impression about the course (section A), lecturer professionalism (section B), teaching and learning activities (section C) and infrastructure (section D). Therefore, PIC only required to print or copy graph from summary graph in the system into audit and accreditation document as evidence.

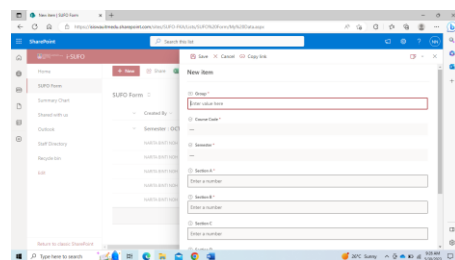
1. Log in into Microsoft 365 account.



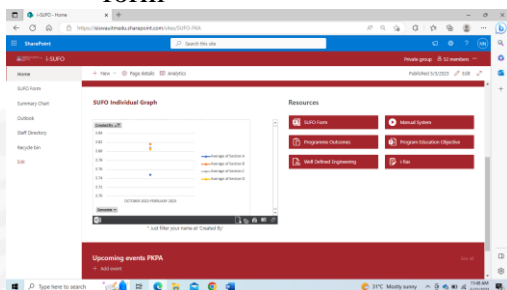
2. Homepage i-SUFO will be viewed by user



3. Fill in all the necessary data from-SUFO



4. Output for individual graph will be on the home page screen, immediately after user fill in the form



5. Output for all lecturers based on section.



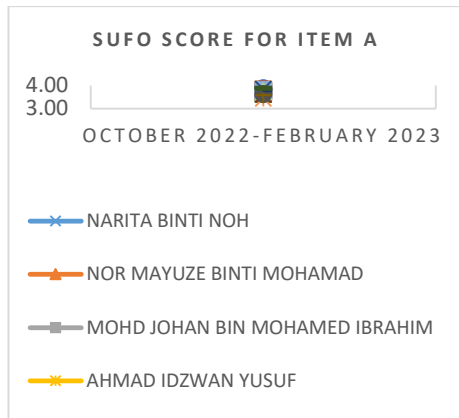


Figure 1. Summary Flow Chart of i – SUFO.

OUTPUT

i-SUFO is developed to provide two types of output which is individual performance for each lecturer. Therefore, lecturer would be able to see the trend SUFO attainment for each semester. By ideal condition, lecturer will be able to see trend of 5 latest semester at the homepage of the server. However, since it is pilot study therefore, Figure 2 does not show any comparison trend for individual performance. Meanwhile, Figure 3 shows the summary performance for all lecturers for section A.

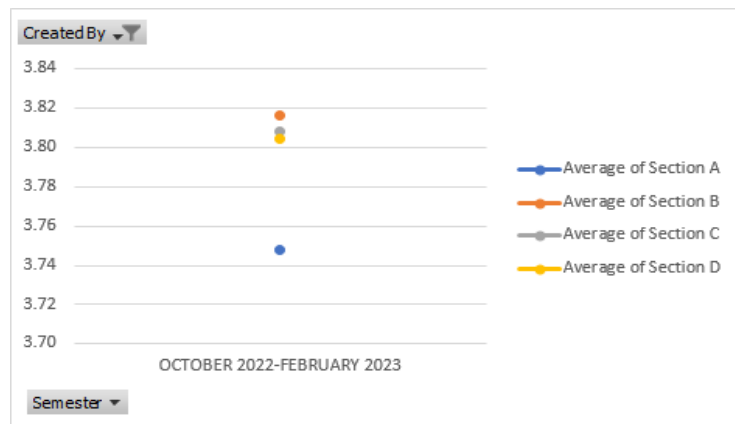


Figure 2. Individual Performance



Figure 3. Summary Performance for All Lecturers for Section A

CONCLUSION AND RECOMMENDATIONS

As a conclusion from pilot test for i-SUFO for data collection October 2022-Feb 2023, the system executes as expected during the planning phase. Hence, it is viewed to be practical for long term plan for work efficiency. I-SUFO has eliminated all the unnecessary tiring processes and it is very user friendly toward the user in terms of filling in the form and displaying the output. Output from i-SUFO is ready as audit and accreditation document evidence. For the

time being i-SUFO is only applicable for college of engineering of civil engineering in Pasir Gudang. It hoped that I -SUFO can be used for other branches as a teaching evaluation tool in UiTM.

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