



Tracer Study of Nutrition Study Program at Universitas Negeri Surabaya in 2023

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Abstract. The purpose of this study is to find out information on graduates of the nutrition study program in 2022. This research is a quantitative research with a cross-sectional study approach. The tracer study was carried out using a questionnaire that had been developed by the Sub Directorate of UNESA Student & Alumni Organizational Development. Respondents from this study were all alumni of the Bachelor of Nutrition study program who graduated according to the cut-off January 1 – December 31, 2022 which has been determined through the Chancellor's Decree for a total of 8 alumni. Tracer study data that has been collected will be analyzed descriptively and narratively. The results of the survey that has been conducted know that 100% of alumni participated in filling out the tracer study questionnaire. The data collection process through the tracer study information system is easy to do because it is web-based / online, besides that alumni data information is easily accessible quickly for those who need it. The results showed 6 alumni who fell into the gold standard category (75%). Alumni who work ≤ 6 months and a salary of 1.2 Provincial Minimum Wage (Rp 2,500,000) are 3 people and alumni who are self-employed ≤ 6 months are 3 people. While alumni who are not included in the gold standard category are 2 people (25%), namely alumni who have worked full time ≤ 6 months with a salary of less than 1.2 Provincial Minimum Wage (Rp 2,500,000) and alumni who are not working but are looking to work with a total of 1 person. None of the alumni of the Bachelor of Nutrition Study Program in 2022 will continue their education for ≤ 12 months (after the certificate issuance date).

Keywords: Tracer study, Alumni, Unesa.

1 Introduction

The primary goal of a tracer study is to collect data on recent grads who are or are not already employed. Additionally, tracer studies seek to discover the outcomes of education in the form of graduate competency mastery and application in the workplace and the progression from the academic to the professional spheres. Educational institutions may learn more about the efficacy of their programs and the experiences of their alums by conducting a tracer study. Providers of educational services may improve the quality of their offerings by engaging in this practice [1].

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Universities may also utilize the tracer study's findings to evaluate the quality of their instruction and its impact on their pupils. Even in competitive and accredited grant programs, data from the tracer study's characteristics, such as the waiting duration for graduates, the proportion of graduates who have employed, and the money generated, are always required. Higher education institutions may use tracer studies as a foundation for future improvement planning [2] because they provide insight into potential gaps in the teaching and learning processes.

Tracer studies are not only helpful for making a program better, but also for making it more marketable to potential students and employers. The successes and failures of a curriculum may be shown via a tracer study [3].

This research was conducted to find out how information on graduates of the Nutrition study program in 2022. The purpose of this study was to find out information on graduates of the Nutrition study program in 2022.

1.1 Unesa Tracer Study

According to the Unesa Tracer Study guidebook, the Unesa Tracer Study is a trace of Unesa graduates / alumni conducted to alumni starting 1 year after graduation and has obtained a diploma number, then the search results are filled in by alumni directly on the Unesa TS system online through the page <http://tracerstudy.unesa.ac.id> [4].

Table 1. Golden standard tracer study for Unesa diploma and bachelor programs.

Level	Gold Standard MPI 1 to be achieved by 2023	University, Faculty and Study Program Targets (%)		
		Respon-srate (TS)	Gold Standard (TS)	User Survey (US)
Bach- elor & Di- ploma	Alumni Working \leq 6 Months & Salary 1.2 Provincial Minimum Wage (*) (based on PT location) (after certificate issuance date)			
	Alumni Self-employed \leq 6 months (after the date of issuance of the diploma)			
	Alumni Continuing Education \leq 12 months (after the date of issuance of the diploma)	80	60	10(**)

MPI : Main Performance Indicator

1.2 The Purpose of Tracer Study

The purpose of the tracer study are to explore information:

- 1.2.1. The time and process of obtaining a job, as well as the number of applications that have been submitted;
- 1.2.2. The waiting time required (before and after graduation) to get a job;
- 1.2.3. Current condition of alumni (working/entrepreneurship/current further study);

1.2.4. The suitability of graduate competencies with the field of work.

1.3 The Benefits Tracer Study

The expected benefits of the Unesa Tracer study are the information obtained regarding:

- 1.1.1. Obtaining information about the gap between the competence of graduates and the demands of the real needs of graduate users so that efforts can be made to improve the curriculum, improve the quality of educators, and adjust and improve the learning system at Unesa;
- 1.1.2. Additional competencies (non-academic) that must be provided by Unesa to graduates in accordance with the competencies needed in the world of work;
- 1.1.3. Evaluation material for international accreditation;
- 1.1.4. Kompetensi tambahan (non akademis) yang harus diberikan oleh Unesa kepada lulusan sesuai dengan kompetensi yang dibutuhkan di dunia kerja;
- 1.1.5. As a reference for building alumni networks.

2 Method

2.1 Type of Research

This type of research is quantitative research with a cross sectional study approach.

2.2 Research Respondents

Respondents of this study were all alumni of the Bachelor of Nutrition study program who graduated according to the cut-off of January 1 - December 31, 2022 which has been determined through the Chancellor's Decree on the Undergraduate program of 8 alumni.

2.3 Data Collection and Analysis Method

Tracer study data collection using a questionnaire on the website. After the data is collected, it will be analyzed descriptively and narratively.

3 Result and Discussion

3.1 Respondent Characteristics

The results of the survey found that the distribution of undergraduate nutrition study program students who graduated in 2022 in the 103 graduation period was 1 person, in the 104 graduation period with the highest number of graduating students, namely 6 people, and in the 105 graduation period as many as 1 person. The total number of students who graduated was 8 people.

3.2 Survey Results

The number of alumni of the undergraduate nutrition study program who graduated in 2022 was 8 people and all alumni filled in the tracer study from the website link provided (100%). This shows that the level of alumni participation is very good. The information system in the tracer study is a form of system that is used to see the situation of alumni, especially in terms of job search, work situation, and utilization of competency acquisition while studying at a university or college. The tracer study information system can present in-depth and detailed information about job matches both horizontally (between various fields of knowledge) and vertically (between various levels / levels of education). The data collection process through the tracer study information system is easy to do because it is web-based / online, besides that alumni data information is easily accessible quickly for those who need it [5].

Using a web-based waterfall paradigm for tracing, research efficiency and effectiveness are improved. With real-time, organized, and integrated data, the acquired information becomes systematic and tier-based [6]. The System Development Life Cycle using the Waterfall model accords with the findings of the tracer study done at Tarumanegara University. The PHP programming language and the Laravel Framework were used in the development of this web-based application. The software may help users manage data from alumni and tracer studies and provide the necessary reports based on testing of apps and assessment programs that have been carried out. By assessing the proportion of alumni status and making it simpler for alumni to fill out questionnaires, the application (computer program) may facilitate the collection of alumni data and aid in monitoring alumni development, as indicated by research done by Cahyaningtyas, et al. in 2022 [7]. A total of 30 users participated in the usability test, and the results averaged out to an 85.51% "Very Good" rating. Compared to the manual method, namely by filling out a tracer study form given to graduates who have just graduated, or sending via email and post to graduates who have graduated long ago, it has several obstacles such as the large number of files that must be made and then processed again by lecturers, paper files are very vulnerable if damaged and dirty. Lack of response from graduates if the faculty requests data via email, as well as when passing the telephone which is sometimes constrained by cost and hassle if you have to use telephone interviews, so sometimes when using postal workers, graduates often do not send back the required tracer study data [8].

The results of the survey using the tracer study questionnaire through the website page showed that of the 8 alumni of the Bachelor of Nutrition study program who graduated according to the cut-off of January 1 - December 31, 2022 who participated in the survey, 6 alumni fell into the gold standard category (75%). Alumni who work ≤ 6 months and a salary of 1.2 Provincial Minimum Wage (based on the location of the PT) (after the date of issuance of the diploma) are 3 people. The waiting time range for 6 alumni in getting a job is 1-6 months and a salary of Rp. 2,500,000 - 4,300,000. Then alumni who are self-employed ≤ 6 months (after the date of issuance of the diploma) are 3 people. The entrepreneurs who run are in the fields of culinary, tourism, and education with an average monthly profit of Rp. 2,000,000 - 3,000,000.

Alumni who are not included in the gold standard category are 2 people, namely alumni who have been working fulltime ≤ 6 months and get a salary of less than 1.2 Provincial Minimum Wage (Rp 2,500,000) of 1 person, namely with a salary of Rp. 2,000,000 and alumni who are not working but are looking for work of 1 person accompanied by efforts to improve skills to operate Microsoft Excel and learn English.

There are no alumni of the Nutrition undergraduate program in 2022 who continue their education ≤ 12 months (after the date of issuance of the diploma). Similar research has been conducted at Yogyakarta State University informatics engineering study program using online questionnaires in the form of Google Docs and direct distribution to alumni, it is known that most alumni of the Informatics Engineering Education Study Program get a job with a waiting period of less than 6 months, as many as 88%, while others take more than 18 months as much as 7%, a range of 6 - 12 months as much as 3%, and a range of 13 - 18 months as much as 2% [1].

4 Conclusions

This study shows that alumni participation in filling out the tracer study is very good (100%). The ease of data collection supports these results, namely using website links or online media that can be filled in whenever and wherever the alumni are.

The results of the tracer study showed that alumni who were included in the gold standard of the undergraduate nutrition study program who graduated according to the cut-off of January 1 - December 31, 2022 were 75% and those who were not included in the gold standard were 25%.

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