

## An Analysis of Student Necessities English for Computer and Network Engineering at SMK Negeri 1 Takalar

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**Abstract** – The process of learning English with ESP (English for Specific Purposes) in the world of education often runs less than optimally. One of the contributing factors is the lack of lesson planning so that learning takes place irrelevant to the field of knowledge they teach. For this reason, it is necessary to have a learning plan which will begin by analyzing students' needs for learning English with special objectives. Therefore the research aims to find and describe students' needs for ESP English focusing on the Necessities of what language aspects the learners need. This needs to be done so that the English language learning materials with special purposes (ESP) received by students are in accordance with the field of knowledge they are capable of and the field of work they will be engaged in. This research is based on a quantitative descriptive approach. The object of this research was class XI students of Computer and Network Engineering, SMK Negeri 1 Takalar. The data collection technique used was a questionnaire, a questionnaire. Then the data obtained will be classified so that the needs of Computer and Network Technology (TKJ) students for learning English can be identified, then they will be described. The results of this study will be used as a reference for subsequent research, namely syllabus planning and development of teaching materials for ESP English.

**Keywords:** Need Analysis, Learning Needs, Target Needs

**Abstrak** – Proses pembelajaran Bahasa Inggris dengan ESP (English for Specific Purposes) di dunia pendidikan seringkali tidak berjalan secara optimal. Salah satu faktor yang berkontribusi adalah kurangnya perencanaan pembelajaran sehingga pembelajaran tidak relevan dengan bidang pengetahuan yang diajarkan. Oleh karena itu, diperlukan rencana pembelajaran yang dimulai dengan menganalisis kebutuhan siswa dalam belajar Bahasa Inggris dengan tujuan khusus. Oleh karena itu, penelitian ini bertujuan untuk menemukan dan mendeskripsikan kebutuhan siswa dalam belajar bahasa Inggris ESP dengan fokus pada aspek-aspek bahasa yang dibutuhkan oleh siswa. Hal ini dilakukan agar materi pembelajaran bahasa Inggris dengan tujuan khusus (ESP) yang diterima oleh siswa sesuai dengan bidang ilmu yang mereka kuasai dan bidang pekerjaan yang akan mereka geluti. Penelitian ini menggunakan pendekatan deskriptif kuantitatif. Objek penelitian ini adalah siswa kelas XI Jurusan Teknik Komputer dan Jaringan, SMK Negeri 1 Takalar. Teknik pengumpulan data yang digunakan adalah kuesioner. Data yang diperoleh akan diklasifikasikan sehingga kebutuhan siswa Teknik Komputer dan Jaringan (TKJ) dalam belajar bahasa Inggris dapat diidentifikasi, kemudian dijelaskan. Hasil penelitian ini akan digunakan sebagai acuan untuk penelitian selanjutnya, yaitu perencanaan kurikulum dan pengembangan bahan ajar untuk ESP English.

**Kata Kunci:** Analisis Kebutuhan, Kebutuhan Belajar, Kebutuhan Target

## **Introduction**

As an international language, English has a very important role as a means of communication, both spoken and written. In the era of globalization, English is the language of instruction in various fields of knowledge. Therefore, English has become one of the main subjects for learners in all countries, including Indonesia.

In Indonesia, English is taught both formally and informally. Formally English will be taught in every school as a compulsory subject from elementary to high school or vocational level. Informally, English can be learned by attending English courses. For the development of teaching English at the vocational education level, the English learning model is not only carried out using the general English learning model (General English) but also using the English learning model specifically (English For Specific Purposes). This English learning model must be carried out according to the needs of the learner in their respective fields.

The importance of carrying out a needs analysis in ESP aims to ensure that the language taught is really the language needed in the field that the learner will be working on. As with English learning activities at the Department of Computer and Network Engineering, SMK Negeri 1 Takalar.

So far, English is a compulsory subject taught by all Computer and Network Engineering (TKJ) students in every class XI. In class XI, the provision of material tends to be more directed at the wisdom of the English teacher. So it is not uncommon for the selection of materials for teaching materials to be more general in nature (General English), not in accordance with the field of knowledge being studied. As a consequence, the motivation to learn English for Computer and Network Engineering (TKJ) students is reduced, on average they perceive English as a complementary subject because it does not support the development of their interests or scientific fields.

Responding to the findings of the problems above, it is very necessary to have a needs analysis of learning English that is in accordance with the needs and interests of students, as well as the fields of knowledge they are currently teaching, so that it is hoped that the results of learning English with this special purpose (ESP) can be applied and used in the world of work that they will be engaged in. For the Department of Computer and Network Engineering, especially English teachers, this need analysis can be the basis for implementing syllabus development in the next stage. For students, the need analysis in ESP influences their learning motivation because the direction of learning English becomes clearer, more relevant and in line

with their field. Thus it can make it easier for students to learn English, be it vocabulary mastery, pronunciation, or grammatical structure of English. Based on these reasons, it is very important to carry out research on a need analysis for learning English for specific purposes in class XI, Department of Computer and Network Engineering, SMK Negeri 1 Takalar.

The results of this study will later become a reference for the next research phase, namely the preparation of the syllabus and the development of ESP teaching materials in the Computer and Network Engineering class. This research focuses on the problem of the needs of students of the Department of Computer and Network Engineering at SMK Negeri 1 Takalar for learning English in the Engineering field which is part of the Science field. Therefore the research aims to find and describe students' needs for ESP English focusing on the Necessities of what language aspects the learners need.

## Research Method

Based on the research questions and objectives of the study, this research is designed as a descriptive quantitative research. Descriptive research is a kind of research method using the techniques of searching, collecting, classifying and analyzing the data and the objective is to describe phenomenon. A quantitative research is a type of research which includes any calculation or enumeration. This study analyses the students needs and their opinions toward English teaching and learning process in the classroom.

In obtaining research data, researchers only used a questionnaire as an instrument. In the questionnaire, researchers used open and closed questionnaires to determine the content of the material for each topic. The questionnaire was given to class XI students majoring in Computer and Network Engineering at SMK Negeri 1 Takalar in a needs analysis.

The average score frequency was used to examine the data from the needs analysis questionnaire. Only frequency and percentage are used to describe some types of data. The following method was used to quantitatively assess the data that was obtained from the questionnaires. Using data analysis, it is possible to ascertain the availability of learning resources and the specific questions that each set of answers addresses. Interpretation is given to the analysis' findings.

## Result and Discuss

This chapter contains the result and discussion of the results obtained from data collection. To determine the target needs of pupils by identifying necessities, the researcher did a need analysis. The researcher provided the pupils a questionnaire to gather the data.

**Diagram 1. Questions 1**



**Diagram 2. Questions 2**



**Diagram 3. Questions 3**



**Diagram 4. Questions 4**



**Diagram 5. Questions 5****Diagram 6. Questions 6**

In order for students to succeed in accomplishing their goals, certain needs must be met. Based on the existing data, table 1's data reveals that one of the top "needs" for students to learn English is to improve their English-speaking ability.

It is usual for pupils to have challenges during the learning process. The results demonstrate that pupils frequently struggle with listening skills, such as failing to comprehend listening content based on context. Additionally, one of the pupils' challenges in learning English is interpreting. Students claim that when reading or listening to a text, they are unable to appreciate its meaning because they are unaware of its significance.

It is crucial to understand how a learner learns in order to achieve success. Each learner has a unique way of taking in, processing, and understanding information, which results in a unique learning style. Students valued studying through videos and films as their favorite form of instruction.

In the first diagram regarding the importance of English, the diagram explains that 61.3% of TKJ students think English is very important, and 38.7% of students think English is important in the Computer and Network Engineering major.

The second diagram, shows that as many as 40% of TKJ students thin that the English skill that needs to be learned in the field of computers and networks is speaking, as much as 33,3% think that what needs to be learned is reading, 20% think that what needs to be learned is listening, and finally at least 6,7% think writing is the most important skills.

In the third diagram, it explains that 51,6% of TKJ students think that it is very necessary to improve English language skills in their majors, as many as 45,2% think it is important, and it does not rule out that at least 3,2% of TKJ students only think it is quite necessary. In the fourth diagram, TKJ students think it is very appropriate that the school provides the English language teaching they need with a percentage of 25,8%, with a percentage of 67,7% students think it is appropriate, and 6,5% think that the school does not provide adequate English teaching they need.

Furthermore, in the fifth diagram, 22,6% of students really need English skills in communicating bith academically and non- academically, 51,6% think it is necessary, 22,6% think it is quite necessary. The last diagram is the sixth diagram, explaining about 45,2% of students think they often use English when looking for words or sources of information in their majors, 51,6% think they sometimes use it.

## **Conclusion**

At SMK Negeri 1 Takalar, class XI students majoring in computer and network engineering are given the necessary directions for learning English with an emphasis on improving their oral and written communication skills, as well as their comprehension of textbooks relevant to their scientific fields, specifically the field of computer and network engineering. While recommendations for improving English learning in the TKJ class include; (1) It is essential to teach English to class XI, Department of Computer and Network Engineering, SMK Negeri 1 Takalar receive more serious treatment by paying attention to various factors that affect its success in mastering English. Students will benefit from having access to enough English to finish their schoolwork and, more crucially, to compete in the workforce. (2) To achieve that goal, it is necessary to carry out practical learning in the field, where TKJ students can receive direct English skills training in the field. Graduates of Computer and Network Engineering (TKJ) are expected to have the ability and skills in English as well to meet the target job market.

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