APPLICATIONS GEOGRAPHICAL INFORMATION SYSTEM (GIS) FOR THE DEVELOPMENT OF VOCATIONAL COMPETENCY VOCATIONAL HIGH SCHOOL IN GRESIK

By: Sokib
Student Identity Number: 2208 206 008
Supervisor: Dr. Ir. Wirawan, DEA.

Abstract

The growth of industries in sector Gresik is growing rapidly, the number of industries rose 31.7% in the year 2008, so that needs of human resources (HR) are absolutely needed, particularly human resources with the level of high school. The ratio of SMA: SMK in South Gresik by 83%: 17%, these are still far from the target form Education Ministry (the ratio of senior high school: Vocational High School = 40: 60). It shows that Gresik has lack of Vocational High School and need the additional of Vocational High School. In order vocational education programs appropriate with the needs of the working world, so it is necessary to determine a suitable competency skills for the needs of industry sector in South Gresik area and it is also necessary to determine the existence to serve society in the area.

Technique analysis applied at this research that requirement analysis of Vocational High School to know requirement of Vocational High School in the group of technology and industry. Determining the location of vocational skill competencies conductea several phases of AHP to determine the value of weighting factors that influence the determination of the location of vocational skills competence. Super impose analysis to find the location which is suitable for vocational school establishment and Scoring Analysis to determine the most ideal. Competency Vocational skills Results of analysis showed that in South Gresik lack of competency skills 4 Location Vocational Industrial Technology Group. The location of four vocational skills competencies are 2 Locations vocational skills competency in Drivorejo District exactly in Banjaran Village and Petikan Village. One location competency skills is in Wringinanom District exactly in Sumberrame village and another is in the Menganti District in Domas Village.

Keywords: Geographic Information System (GIS), development of vocational skills competencies, industry sector