

C615189 : MAJOR CIVIL ENGINEER

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 NUTTAWUTH NAKSOOK : BANGSAPAN RIVER BASIN DEVELOPMENT POTENTIAL
 ASSESSMENT WITH GEOGRAPHIC INFORMATION SYSTEM. THESIS ADVISOR :
 Assoc. Prof. DR. SURAVUTH PRATISHTHANANDA, 149 pp. ISBN 974-635 522-8.

The objective of the potential evaluation for Bangsapan River Basin development is prepare the necessary data in order to apply the Geographic Information System (GIS) for evaluating the over all potential of the basin. The capability of GIS can be used to analyse and present various results defined by the user.

The study is emphasized in using the MapInfo for Windows GIS application to manage the information in Bangsapan River Basin, Bangsapan district, Prachuap Khiri Khan province. The data are prepare by different methodologies for instance map and photo by scanner and digitizer, text data by keyboard, surface modeling by TIN software. The details of data will be collected in the database for future analyzing and presenting later.

The BSP has been developed using MapBasic language to collect, analyse and present the information for Bangsapan River Basin. The BSP is able to show map with varies information, topographic and data monitoring and evaluate the natural runoff at the interested location. This crucial information can be use to primary evaluate the basin development potential of the Bangsapan River Basin.

The BSP application is shown that number of information of the basin can be collected and displayed in thematic map which is easily monitor the topography and evaluate the natural runoff for specific location. However BSP has leimited capability to automatical define the watershed area of the data analysis stage.

ภาควิชา วิศวกรรมโยธา (แหล่งน้ำ)

สาขาวิชา วิศวกรรมแหล่งน้ำ

ปีการศึกษา 2539

ลายมือชื่อนิสิต

ลายมือชื่ออาจารย์ที่ปรึกษา

ลายมือชื่ออาจารย์ที่ปรึกษาร่วม