

KEY WORD : ANALYSIS/CONTENT/PROBLEM/INDUSTRIAL MATHEMATICS INSTRUCTIONAL

SANCHAI BEARMOOKDA : AN ANALYSIS OF CONTENTS AND INDUSTRIAL PROBLEMS
OF INDUSTRIAL MATHEMATICS AT THE HIGHER PROFESSIONAL DIPLOMA LEVEL,
RAJAMANGALA INSTITUTE OF TECHNOLOGY. THESIS ADVISOR : ASSO.PROF.
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The purpose of this study was to analyze of contents and instructional problems of industrial mathematics at the higher professional diploma level of Rajamangala Institute of Technology. The subjects consisted of 32 mathematics teachers which were randomly sampled from campuses of Rajamangala Institute of Technology. The research instrument was an interview form about industrial mathematics instructional problems. The findings of this study showed that:

1. The industrial mathematics instructional problems at the higher professional diploma level were: there were too many topics of mathematics contents, industrial mathematics contents were not suitable for the time given in the curriculum, there were lack of budgets for providing instructional medias, and the students had basic knowledge of mathematics at the lower level.
2. There were sixteen topics of mathematics contents that were at the high level instructional problems, fifty seven topics were at moderate level problems and twenty four topics were at the low level problems.
3. The students had the problems in studying 16 topics of mathematics at the high level. The cause was the students lacked of basic knowledge of mathematics that they had to used in studying advanced topics of mathematics.