

SCHOLASTIC ACHIEVEMENT OF SSPC COLLEGE STUDENTS
GRADUATED FROM GENERAL HIGH SCHOOLS
AND VOCATIONAL HIGH SCHOOLS

A Thesis
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Samar State Polytechnic College
Catbalogan, Samar

In Partial Fulfillment
of the Requirements for the Degree
Master of Arts in Education


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APPROVAL SHEET

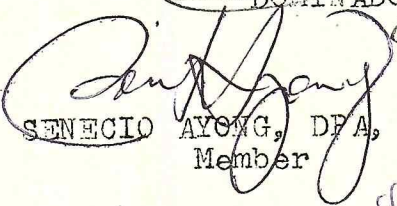
This thesis entitled "SCHOLASTIC ACHIEVEMENT OF SSPC COLLEGE STUDENTS GRADUATED FROM GENERAL HIGH SCHOOLS AND VOCATIONAL HIGH SCHOOLS, has been prepared and submitted by VICTORIA CUI SABALZA, who having passed the comprehensive examination, is hereby recommended for oral examination.


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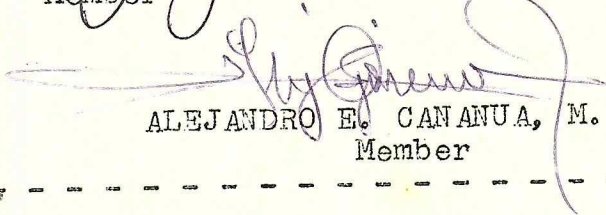

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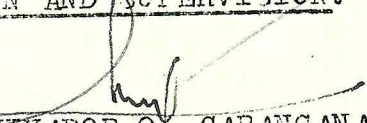

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VCS

DEDICATION

To Ian Lloyd C. Sabalza, fifth
and the father's most favorite among
his life's jewels, this work is dedica-
ted.

vicky

ABSTRACT

This study attempted to compare the scholastic achievement of SSPC college students graduated from the general high schools and vocational high schools. The descriptive-analytical method of research was used in the study. Selection of samples was based on the students enrolled in the six courses. Purposive sampling was used to determine whether the students came from the general high schools or vocational high schools and for the researcher's intention to involve students who were consistently enrolled for two years, the time duration. The t-test of significance for uncorrelated means was used in treating the achievement ratings or the GPA of the college students. The t-test of significance at .05 level with ten degrees of freedom was employed to find out whether the obtained correlation falls within the region of acceptance or rejection. The following are the findings of this study: (1) the scholastic achievement level of the students who graduated from the general high schools is good, (2) the scholastic achievement level of the students who graduated from the vocational high schools is good, and (3) there is no significant difference between the students graduated from the general high schools and the vocational schools. Based on the findings, the following conclusions were drawn: (1) this study reveals a good scholastic performance of the college students graduated from the general high schools enrolled in Samar State Polytechnic College, (2) this study reveals good scholastic performance of college students graduated from the vocational high schools enrolled in Samar State Polytechnic College, and (3) this study further reveals

a minimal evidence for the two groups of students to be significantly different on scholastic achievement. Based on the findings and conclusions, the following recommendations are drawn: (1) a study toward policy reform for a comprehensive academic discipline integration for both vocational and general high schools through the tertiary or higher educational aims, (2) a study on group leadership of students in school, curricular or extracurricular, to consistently relate with superior scholastic achievement, (3) study on the same problem in other schools to further confirm validity of findings of the present study, and (4) a follow-through research on the same problem and venue ten years after for findings relevant to curriculum development schemes.

TABLE OF CONTENTS

| | |
|-----------------------------|-----|
| TITLE PAGE | i |
| APPROVAL SHEET | ii |
| ACKNOWLEDGMENT | iii |
| DEDICATION | v |
| THESIS ABSTRACT | vi |
| TABLE OF CONTENTS | vii |

| Chapter | Page |
|--|------|
| 1. THE PROBLEM | 1 |
| Introduction | 1 |
| Theoretical and Conceptual Framework | 5 |
| Statement of the Problem | 8 |
| Hypothesis | 9 |
| Importance of the Study | 9 |
| Scope and Delimitation | 11 |
| Definition of Terms | 12 |
| 2. REVIEW OF RELATED LITERATURE AND STUDIES. | 17 |
| Curricular Content | 23 |
| Tools, Equipment and Facilities | 24 |
| Teacher Quality | 26 |
| Student Attitudes | 27 |
| Instructional Strategies/Approaches | 29 |
| Relationship with the Present Study | 38 |

TABLE OF CONTENTS (Cont'd.)

| Chapter | Page |
|--|------|
| 3. METHODOLOGY | 41 |
| The Research Design | 41 |
| The Subjects | 41 |
| Technique Used | 42 |
| Statistical Treatment of Data | 44 |
| 4. PRESENTATION, ANALYSIS AND INTERPRETATION OF DATA | 46 |
| What is the Scholastic Achievement Level of SSPC College Students Graduated From the General High Schools? | 46 |
| What is the Scholastic Achievement Level of SSPC College Students Graduated From the Vocational High Schools? | 47 |
| Is there a Significant Difference Between the Scholastic Achieve- ment Levels of the SSPC College Students Graduated From the General High Schools and Those From the Vocational High Schools? | 49 |
| 5. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS. | 61 |
| Summary | 61 |
| Findings | 62 |
| Conclusions | 63 |
| Recommendations | 64 |
| BIBLIOGRAPHY | 66 |

TABLE OF CONTENTS (Cont'd)

| | Page |
|--|------|
| APPENDICES | 71 |
| A. Request for Approval on the Problem . . . | 72 |
| B. Application for Assignment of Adviser . . | 73 |
| C. Request for Review of Research Documents (Students' Records) | 74 |
| D. Request for Schedule of Pre-Orals | 75 |
| E. Request for Schedule of Oral Defense . . . | 76 |
| F. Rating System Adopted by the College . . . | 77 |
| G. Sample Computation for GPA | 78 |
| H-1. List of Schools (GHS) where Samples Graduated | 79 |
| H-2. List of Schools (VHS) where Samples Graduated | 81 |
| I. Secondary Student Permanent Record (Form 137-A) | 82 |
| J. College Student Permanent Record (Form 137-T) | 83 |
| K-1. Computation for Finding the Mean and Group Variance of General High School Samples under the Technical Curriculum . . | 84 |
| K-2. Computation for Finding the Mean and Group Variance of General High School Samples under the DOT Curriculum | 85 |
| K-3. Computation for Finding the Mean and Group Variance of General High School Samples under the BSIT Curriculum | 86 |
| K-4. Computation for Finding the Mean and Group Variance of General High School Samples under the BSIE Curriculum | 87 |

TABLE OF CONTENTS (Cont'd)

| | Page |
|--|------|
| K- 5. Computation for Finding the Mean and Group Variance of General High School Samples under the BSEE Curriculum | 88 |
| K- 6. Computation for Finding the Mean and Group Variance of General High School Samples under the BSCE Curriculum | 89 |
| K- 7. Computation for Finding the Mean and Group Variance of Vocational High School Samples under the Technical Curriculum . . | 90 |
| K- 8. Computation for Finding the Mean and Group Variance of Vocational High School Samples under the DOT Curriculum | 91 |
| K- 9. Computation for Finding the Mean and Group Variance of Vocational High School Samples under the BSIT Curriculum | 92 |
| K-10. Computation for Finding the Mean and Group Variance of Vocational High School Samples under the BSIE Curriculum | 93 |
| K-11. Computation for Finding the Mean and Group Variance of Vocational High School Samples under the BSEE Curriculum | 94 |
| K-12. Computation for Finding the Mean and Group Variance of Vocational High School Samples under the BSCE Curriculum | 95 |
| K-13. Computation for Finding the Mean and Group Variance of Samples of General High Schools and Vocational High Schools . | 96 |
| L- 1. Computation for Finding the T-Value of Students' Achievement under the Tech'l Curriculum | 97 |
| L- 2. Computation for Finding the T-Value of Students' Achievement under the DOT Curriculum | 98 |

TABLE OF CONTENTS (Cont'd)

| | Page |
|--|------|
| L-3. Computation for Finding the T-Value of Students' Achievement under BSIT Curriculum | 99 |
| L-4. Computation for Finding the T-Value of Students' Achievement under BSIE Curriculum | 100 |
| L-5. Computation for Finding the T-Value of Students' Achievement under BSEE Curriculum | 101 |
| L-6. Computation for Finding the T-Value of Students' Achievement under BSCE Curricular | 102 |
| L-7. Computation for Finding the Overall T-Value of Students' Achievement of General High School and Vocational High School | 103 |
| CURRICULUM VITAE | 104 |
| LIST OF FIGURES AND TABLES | |

Chapter 1

THE PROBLEM

Introduction

For many centuries, two types of education existed: education for culture (academic) and education for work which were widely separated from each other. As occupational life became more complex and the country's economic system needed to be developed, the schools were compelled to give more time to work education.¹ Today however, both cultural and work education are generally accepted as essential elements in the educational system. This was why, when the Education Act of 1982 was passed, it laid down the policy of the state on higher education, that is to achieve both equity and equality in all tertiary level institutions through program offerings that are relevant to national and regional development needs.² The attainment of these goals poses a great challenge to the education sector.

¹ Jose R. Vergara, "Practical Arts Vs. Technical and Vocational Education", Education and Culture Journal, (MECS: 1985), p. 207.

² Antonio G. Dumlao, Quality in Higher Education Education and Culture Journal, (MECS: 1985), p. 49.

In the advent of current changes/trends on progressive theories in education, the problem on student's achievement has been raised a significant issue. Scholastic achievement, an indicator of student performance in a particular course, is characterized by the grades objectively given or assigned by the teachers as a result of the evaluation of knowledge attained, skills developed, and value acquired in the process of formal educational training. This sole indicator of student achievement in particular discipline is expressed in numerical rating in a report card showing how much a student has achieved both in academic and vocational subjects which generally aim to develop knowledge and skills and work values necessary for the individual toward a productive life.

Scholastic or curricular achievement is identified as an end product of the many identifiable or non-identifiable factors thrown into the learner's world as he continuously strives to reach greater heights. The learner, being insatiable, is never contented with what he is or has. He has that innate desire to attain higher goals when provided with the right situation.

The present trend in education is the development of the intellectual and personal potential

of the individual to the limits of his capacity. So to foster his optimum development, the teacher must help him maximize achievement in the classroom and provide him opportunities for learning what is taught to the level of mastery.³ Thus the school, irrespective of its type should show concern toward this aspect through a careful analysis on some measures of educational performance not only on student achievement but his potentials for success in college.

Recent surveys on quality outputs, that of the Philippine Commission to Survey Philippine Education (PCSPE) for instance, showed a tremendous decline for quality graduates expected in the field of work thereby revealing their inadequacies and incompetencies on some aspects necessary for work. Quality is defined in terms of several indicators such as performance in government/board examinations, performance in work setting, employability and compensability with graduates of the past and graduates of the other countries.⁴

³Minda C. Sutaria, "Mastery Learning and the Continuous Progression Scheme", New Thrusts in Philippine Education, (Manila: Current Event Digest, Inc., 1974), p. 305.

⁴Antonio G. Dumlap, "Problems and Issues in Higher Education", Education and Culture Journal (MECS, 1985 Vol. 1, No. 2), p. 67.

While it is true that schools with different curricula offer different trainings, one can not deny the fact that all schools have the same objective, and that is the development of quality and versatile personality for the individual.

Such educational perspectives and thrusts redound to the many activities in school toward the attainment of valid goals. Apparent to these are varied means of assessment/evaluation of what has been learned and what is expected. The Samar State Polytechnic College, the focus of this study, caters to the needs of the students from various types of schools. As a vocational school, it programs activities which students could participate in, such as leadership, sports and skills trainings contributory to the moulding of the total well-being. It further gives due recognition to compensate their struggle for excellence. A question however is posed which group of students perform better, that from the general high schools or vocational high school? As observed by the researcher, students from the GHS perform better than students from the VHS. For the researcher to have a sound basis to conclude what underlying factors may have influenced their performance and to identify whether or not the schools where they come from could have affected their

performance, she was challenged to have this study.

Theoretical and Conceptual Framework

This study is anchored on the statement of Romulo on quality education:

The standard and criteria of excellence demanded by the universities created by the state-- the standard and intellectual and academic demands of UP for instance, should be the same quality expected of the students of other institutions.⁵

The implication of this statement holds true to other institutions. However, one can not ignore the existing imbalances of educational input among our students. The fact of differences in school achievement and the search for the explanation of these differences, is one of the most controversial issues in education today. It has been the focus of numerous researches and the topic of many government reports. Yet it is still almost far from reaching and understanding the actual process of school achievement as it was ten years ago.

Despite disagreement however, one fact remains: there are differences in the scholastic performance of the students in schools. While some students can

⁵Inocencio Elefanio, "Theories and Trends in Education", Teachers' Professional Handbook, (Tacloban City: Compiled, 1978), p. 18.

easily hurdle course requirements and make it to the top or to the upper scholastic bracket in the class, others, aside from the majority who are on the average, settle at the bottom. They may have just barely passed in all subjects or may have failed in some or all, resulting to low general averages.

This problem has grave social implications and efforts must be exerted towards investigating all factors that may influence it, particularly those prevailing in schools themselves.

Apart from these, lies a question: Are our colleges and universities well-fit to educate and value trained intelligence with excellence in instruction?

Guided with the theoretical framework, the researcher was able to conceptualize her study clearly as shown by the schema.

The schema shows the interplay of the factors involved in this study.

At the base is Samar State Polytechnic College representing the research environment. It mainstays for the six (6) curricular offering under the undergraduate program namely the Technical course, the DOT, the BSIT, the BSIE, the BSFE, and the BSCE. From these courses, an arrow is drawn to the center, the GPA as

Conceptual Framework

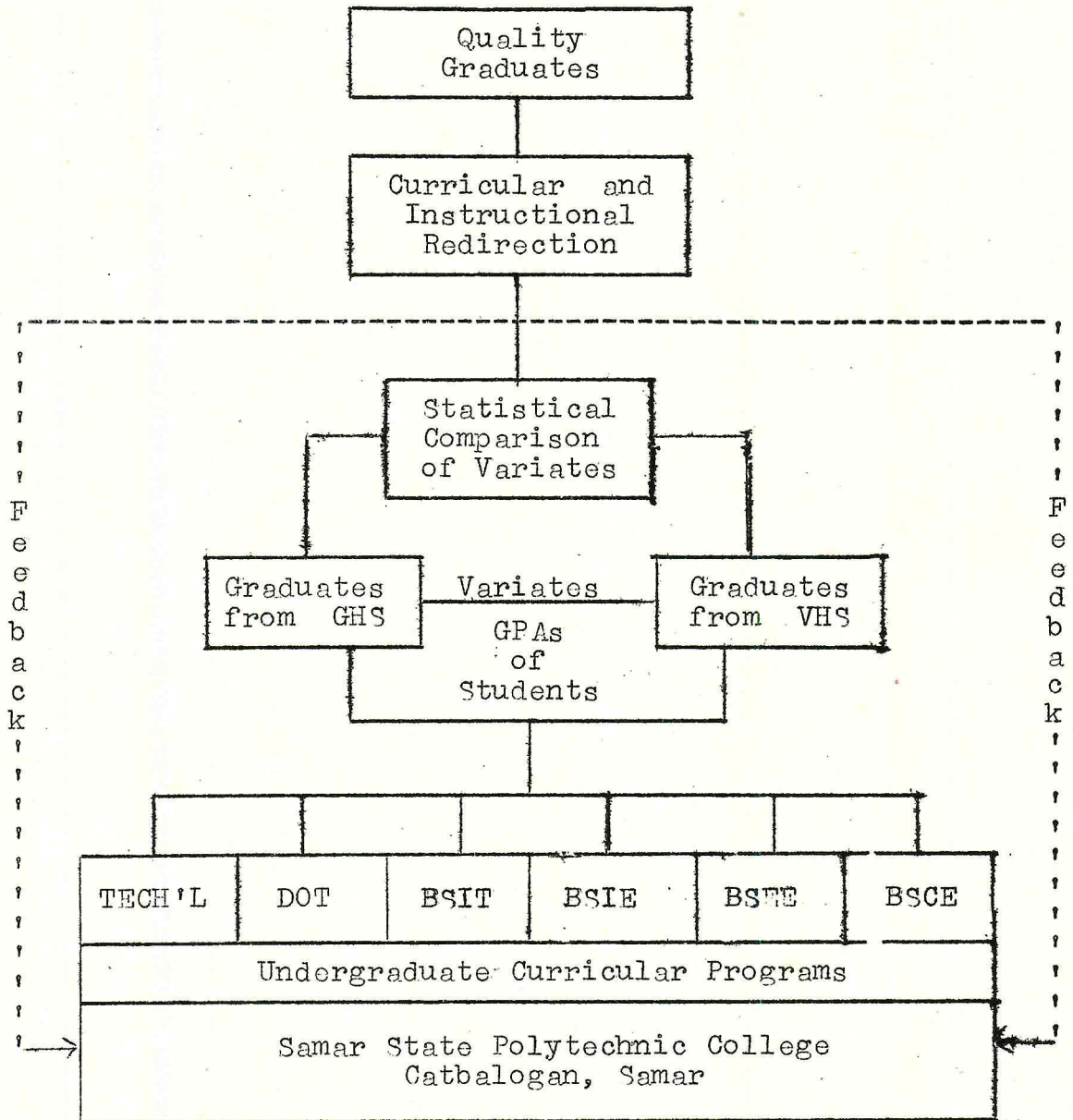


Figure 1. Schema of the Conceptual Framework

variates shown between the GHS at the left and the VHS at the right. These variates provide basis for comparison and are subjected to a statistical treatment or comparison, findings of which provide feedback to SSPC where curriculum planners decide for curricular and instructional redirection through implementation of some measures that will enrich and improve the different school factors in both secondary and the tertiary levels, so that quality graduates as expected be made possible.

Statement of the Problem

This study attempted to compare the scholastic achievement of SSPC college students graduated from the general high schools and the vocational high schools for school year 1985-1986 to 1986-1987.

Specifically, it sought answers to the following questions:

1. What is the scholastic achievement level of the SSPC college students graduated from the general high schools?

2. What is the scholastic achievement level of the SSPC college students graduated from the vocational high schools?

3. Is there a significant difference between

the scholastic achievement level of the SSPC college students graduated from the general high schools and those from the vocational high schools?

Hypothesis

This study attempted to test the null hypothesis that there is no significant difference between the scholastic achievement level of SSPC college students graduated from the general high schools and those from the vocational high schools.

Importance of the Study

This research was conducted because to date, there has been no study made comparing scholastic achievement of students from general high schools and vocational high schools.

Ultimately, the result of this study is expected to provide basis for an improved instruction in relation to the scholastic achievement criteria for the secondary and higher education departments of the Samar State Polytechnic College, Catbalogan, Samar. For improved instruction, the school has to consider factors of minimum standards which are neither too high not too low to be attained. These factors may include the curricular content, the instructional facilities, the teaching strategies, the faculty, the attitudes of the students

and other factors of learning contributory to raising the level of achievement of the students. From these, a much better output is expected.

To the teachers, this study will inspire them to initiate newly improved methodologies and procedures in evaluating students' learning, strive to avail of in-service trainings and scholarships which the college provides for the realization of its educational goals.

To the educational planners, this study will inspire them to discard or outrightly counteract unviable measures and instead, adopt means to maximize quality instruction, thereby turning out quality graduates.

To the parents, this study will guide them in the choice of more sensitive educational career opportunities for their children and motivate them in the development of desirable attitudes and values, so they may serve as models for both school and community.

Finally to the students, this study will encourage them to strive their best and enable them to excel in all areas of learning, reflected in their grades as quality indicator which indirectly put themselves on a firm commitment to the goal of excellence.

Scope and Delimitation

This study focused on the comparison of the scholastic achievement of SSPC college students graduated from the general high schools and the vocational high schools for school year 1985-1986 and 1986-1987. The data used were the GPA during the first two years of the college students enrolled in the post secondary and the college degree programs such as: (1) the two-year technical course, (2) the three-year course leading to the Diploma of Technology (DOT), (3) the four-year technician education course leading to the degree of Bachelor of Science in Industrial Technology (BSIT), (4) the four-year teacher education course leading to the degree of Bachelor of Science in Industrial Education (BSIE), (5) the five-year Engineering course leading to the degree of Bachelor of Science in Electrical Engineering (BSEE), and (6) the five-year Engineering course leading to the degree of Bachelor of Science in Civil Engineering (BSCE).

A total of 100 students representing all the courses mentioned above were taken as samples for this study. It included 50 students who graduated from each of the two types of schools, the GHS and the VHS broken down as follows: 12 students from the technical,

6 from the DOT, 17 from the BSIT, 6 from the BSIE, 3 from the BSEE, and 4 from the BSCE. This number was limited to only 58 percent of the 173 total enrolees. The researcher desired to get 100 percent samples, however she found it difficult since more students came from the general high schools than from the vocational high schools. So, the lowest number among the VHS graduates having the possible counterpart was adopted as basis for sampling in order to match the number of samples in both variates.

Definition of Terms

In order to provide a uniform frame of reference, the following terms as operationally used in the study are defined using the Webster's Dictionary and other reference materials.

College environment. This term applies to the aspects of the institution that affect the student for example, its physical plant and facilities, its curriculum and content including methods of teaching, the attitudes of faculty and staff and others.

College student. This applies to a student enrolled in a course for special instruction, sometimes

profession often vocational or technical.⁶ In this study, it applies to anyone enrolled in the collegiate department of SSPC for school year 1985-86 and 1986-87 under the six courses offered by the college.

Curricular offering. This refers to the pattern of courses of study specifying the minimum amount of work in each subject each school year.⁷ In this study, it refers to the courses offered namely: the 2-Year Technical Education, the DOT, the BSIT, the BSIE, the BSSE and the BSCE.

Curriculum. This refers to the group of courses and planned experiences for the learner to actualize.⁸ In this study, it refers to the series of courses leading to the completion of specific course goals.

General high school. This term applies to types of schools that offer four-year pre-collegiate courses in academic subjects for the purpose of fitting

⁶The Random House, Dictionary of the English Language, (New York: The Random House, 1967), p. 444.

⁷Carter V. Good, Dictionary of Education, (New York: McGraw-Hill Book Co., 1973), p. 159.

⁸Ibid., p. 157.

out students for a higher level of learning or educational achievement.⁹ As used in this study, this refers to secondary schools attended by the college students involved in the study whose curriculum puts more emphasis on academic subjects.

Grade point average (GPA). This is the numerical evaluation of scholastic achievement based upon a formula of equivalents that grant credits varying with the grade attained.¹⁰ As used, this refers to the weighted average of the overall rating of the subjects taken in college for one year.

Mean. This refers to the sum of grades divided by the number of subjects/courses also termed average.¹¹ In this study, average is used where ratings obtained by the students for two consecutive years were added and divided by the total number of subjects taken.

Purposive sampling. This is a strategy of hand-picking the cases to be included in the samples, assuming that errors of judgment in the selection

⁹Herman C. Gregorio, School Administration and Supervision, (Quezon City: RP Garcia Publishing Co.), p. 183.

¹⁰Good, op. cit., p. 35.

¹¹Merriam Webster, New Students Dictionary, (USA: G & G Merriam and Company, 1974), p. 234.

will tend to counterbalance each other.¹² As applied in this study, this is the process employed by the researcher in getting her samples from a school population based on their equated grades.

Quality education. This term implies the attainment of certain predetermined standards of achievement, the utilization of quality faculty facilities and other resource inputs brought to bear on students who have the aptitudes to succeed in whatever educational programs they may have considered.¹³ The researcher associates this term with the student output through the marks/grades indicated in their report cards.

Scholastic achievement. This refers to the grades objectively given or assigned by the teacher as a result of the evaluation of student's achievement in terms of knowledge attained, skills developed in their school subjects which are often expressed in numerical ratings.¹⁴ In this study, this term refers to the

¹²Kidder and others, Research Methods in Social Relations, (Holtz-Saunders International Edition, 1981), p. 427.

¹³Jaime C. Laya, "A Question of Quality and other Papers", (Manila Educators Press, 1984), p. 3.

¹⁴Merriam Webster, International Dictionary, (USA: Merriam Co., Springfield Mass., 1972), p. 168.

grades obtained by the college students of the Samar State Polytechnic College for two consecutive years.

SSPC. This is the acronym for Samar State Polytechnic College, the center of the study.

Variates. This term is synonymous with the word variables, a symbol that stands for anyone in a class of things. Variate refers to the college students involved in this study.

Vocational high school (VHS). This term applies to types of school whose emphasis is more on training students on skills and working techniques that will gear them toward a particular occupation.¹⁵ As used in this study, this applies to secondary schools attended by the students whose curriculum allot more hours on elective courses such as vocational trades, agriculture, fishery, craft/industrial arts, and the like.

¹⁵Guiong and others, Administration and Supervision of the New Secondary Schools, (RD Garcia Publishing Co. Quezon City, 1974), p. 26.

Chapter 2

REVIEW OF RELATED LITERATURE AND STUDIES

This chapter presents a review of some related literature and studies of authorities and researchers in the field of education and the allied fields available as materials closely related to the present study. This present study, however, demands originality, since it does not duplicate specifically any of the works reviewed. In no instance had the researcher discovered a study dealing definitely with the difference of scholastic achievements of students graduated from general and vocational high schools.

In the assessment of student achievement, which may be indicated by the grade point average (GPA) of all subjects taken, much have been written toward the identification of factors which led to correlate scholastic achievement consistently. Lavin¹⁶ thoroughly discusses this criterion of performance, the GPA as:

In studies of academic achievement, the traditional criterion of performance is the students' grades. Other criteria are occasionally used... For example, some researcher

¹⁶David E. Lavin, The Prediction of Academic Performance, (New York: Russel Sage Foundation, 1965), p. 6.

have been interested in predicting whether students will graduate from college. Others have been concerned with criteria such as intellectual curiosity, acceptance in graduate schools.... Despite the occasional use of these criteria, in the overwhelming number of cases, student grades are the sole index of performance.

Hirsch¹⁷ discussed the external and internal factors that influence the development of the individual characteristics important for academic achievement. External factors are defined as conditions which influence a child's academic achievement by direct means, either through the effect upon the school or the home or upon the development of some of the individual child factors. This is supported by the study of Suttiprapa¹⁸ on the school factors and other variables that have influenced the academic performance of the four secondary schools in Thailand which reveals that the grade point average (GPA) was found related to the academic performance of the students in all the four schools involved in the study. GPA further indicates the students'

¹⁷S.C. Hirsch, Individual Characteristics and Academic Achievement, (USA: Charles Thomas Publishing Co., Springfield, 1985), p. 68.

¹⁸Ronagarn Suttiprapa, "Lower Secondary School Programs and Students Performance in Academic and Vocational Streams in 4 Upper Secondary Schools of ROI-ET Province, Thailand", (unpublished master's thesis, TUP: Manila, 1987), p. 13.

choices as well as the factors of subjects and students' interests. Also, the findings of Salas' study reveal that the engineering freshmen of TUP obtained a substantial correlation value of .41 between the NCEE GSA scores and college GPA which was significant at the .05 level and the teacher education group on the other hand obtained a more substantial r of +.65 which was highly significant at the .001 level. These correlation coefficients generally imply that those who performed better in the NCEE, also performed better in college as indicated in their GPA.¹⁹ While, that high school academic records proved to be the most effective single predictor of first year college grades, this is supported by the findings of McCormick and Asher.²⁰ They took singly and in combination the value of certain aspects of the high school record for predicting the grade average of students who completed the first semester work in several colleges. They found out that the high school

¹⁹Nilo B. Salas, "Relationship Between 1981 NCEE and Scholastic Achievement of TUP Engineering and Teacher Education Freshmen 1982-1983", (unpublished master's thesis, TUP: Manila, 1984), p. 11.

²⁰James McCormick and William Asher, "Aspect of the High School Record Related to the First Semester College Grade Point Average", *Personal and Guidance Journal*, XLII (Manila, 1964), p. 690.

grade point average is one of the best predictors of the first semester grade point average.

Internal factors are defined as characteristics of the individual pupil which have some direct bearings upon his school achievement. Hirsch further cited some factors affecting academic achievement which are also known as the environmental and biological development of the individual.

Scar and Wimberg²¹ shed light on the influence of family background on academic achievement. They discussed the long term effects of family background influences on adult intellectual, occupational, and economic outcomes. Family environment and genetic difference can account for some differences in adult achievement. Half or more of the long term effects of family background on children's intellectual attainment depend upon genetic, not environmental transmission. Meanwhile, Kapunan cited some environmental factors possible to have influenced scholastic performance, namely; (1) city children were found to be better than country children because of availability of educational

²¹S. Scar and R. Wimberg, "Influence of Family Background on Intellectual Attainment", American Society Review, Vol. 43, October, 1978.

facilities; (2) parent's occupation also has an influence on scholastic achievement; (3) children in isolated and backward sections do not acquire the kind of experience in their home, school and community more than children living in urban or progressive section do; and (4) children of well-to-do parents have greater accessibility to libraries, places of culture and other facilities than those of poor parents.²² This opinion is supported by the findings of Santos' study where between college students from rural and urban areas, results indicated a significant difference in achievement motivation. It further reveals that environmental climate forms a dynamic linkage to scholastic achievement. The college or university therefore, must be supportive in creating and providing an environmental climate for a better achievement.²³

On the other hand, the study conducted to identify the factors which influence the academic performance of graduate students of TUP by Kagondechasak

²²Rocio Reyes Kapunan, Educational Psychology, (Rox Printing Co., Manila: 1978), p. 48.

²³Daniel S. Santos, "Motivation for Academic Achievement Among College Students", (unpublished master's thesis, College of Education, UP, Quezon City, 1980), p. 38.

revealed that achievement was influenced by a combination of economic, academic, and psycho-social factors in the Philippine environment with economic factor as the most related.²⁴ Academic performance here was measured in terms of study and grade point average. Thus, while other studies mentioned other factors as intelligence, family size, aspirations of both parents and children, socio-economic status and other characteristics of the child which were associated with school achievement, the present study is focused on the school environmental climate which plays a major role in the assessment of student achievement. This study therefore, did not delve into all the factors identified by some previous studies, but concentrated more on the few ones which in effect were deemed relevant to college students' achievement factors in Samar State Polytechnic College.

Specifically, in trying to identify what factor has greater influence on students' scholastic performance, it has been established that the school has an edge over the other factors. Therefore, the following aspects associated with the school factor believed to

²⁴Somboon Kagondechusak, "Correlates of Academic Performance of the Students of the Graduate School of the TUP", (unpublished master's thesis, TUP, Manila, 1983), p. 4.

have implication in the pursuit of excellence are hereby cited which include (a) curricular content, (b) tools, equipment and facilities, (c) teacher quality, (d) attitudes of students, and (e) instruction strategies.

Curricular Content

What is taught in school determines what is learned, so that, an assessment of educational standard begins with an examination of the curriculum.²⁵ For a functional and comprehensive curriculum, it should offer varied educational opportunities to discover and develop the capabilities of the students. Navarro²⁶ stressed the need for the curriculum to make the individual productive not by just imparting knowledge to him, but also by socializing him in various ways to develop his productive achievement, motivation, and his willingness to accept his responsibility, to take orders for him as a value that will be applicable when he is ready to assume his place in the field of work.

According to curriculum experts, secondary

²⁵Minda C. Sutaria, "Quality: Thrust of Elementary Education", Education and Culture Journal, MECS, p. 21.

²⁶Josefina R. Navarro, "The Work-Oriented Curriculum, New Thrusts in Philippine Education", (Manila: CED, Inc., 1974), p. 54.

classified into GHS and VHS, ultimately aim to equip the students with skills for a productive endeavor and/or prepare them for tertiary schooling. While they vary in curricular offerings and techniques, no distinction is made between the vocational and general or academic since the products of either are similarly accepted as college freshmen.

Curricular content, however, accompanied with learning experiences should be learnable and adaptable to student's experiences. The learning experiences must be varied as stepping stones toward the analysis of the possible outcomes of learning. In short, the curriculum should provide the three kinds of behavioral changes; the cognitive, the psychomotor and affective.²⁷

Tools, Equipment and Facilities

Quality of instruction, particularly in vocational or trade technical training, can best be achieved if adequate and appropriate tools, equipment and facilities are provided.

It is through the abundance and appropriate instructional materials such as books, films, apparatus,

²⁷George J. Mouly, Readings in Educational Psychology, (USA: Holt, Rinehart and Winston, Inc., 1971), p. 12.

equipment, and other instructional materials that the learner may be helped to cultivate competencies.

Support to this idea is cited by Jerdivitcha's study where effective instruction is dependent primarily upon the adequacy of tools and equipment that the students utilize to satisfy the urge to manipulate, create, beautify and express through a purposeful activity.²⁸

Schools, regardless of type, are designed to train students in the use of necessary skills required for national development; thus, we have to equip them with the necessary tools, machineries and equipment. Findings of Jerdivitcha's study revealed that of the two schools offering the same vocational courses, Nakornpathom Technical College under the Department of Vocational Education was rated higher in terms of tools, equipment, and facilities. It showed higher vocational achievement of students when compared with Sampranttiwaya under the Department of General Education. Such difference was significant at .05 and .01 level.

What further necessitates a relevant implication to any school training scheme is the primary

²⁸Cheotima Jerdivitcha, "A Comparison of Student Achievement in the Department of Vocational and General Education: A Case Study in Thailand", (unpublished master's thesis, TUP, Manila, 1987), p. 29.

existence of auxillary facilities. Obviously, the school objectives in this regard are towards developing a complete or adequate human resources development that recognizes not the student or output in tools manipulation but mastery of the student himself in a world of vocational and technological orientation where human factor still prevails over mobile sophistications.

Teacher Quality

According to Corson "If we want to improve American education, we ought to aim first at improving the quality of the faculty".²⁹ The make up of the faculty determines the educational program. Thus, the performance of the student has some direct bearings on the kind of faculty the school has. The competence of the teacher remarkably enhances the development of the skills, values and knowledge among the students.³⁰ Educational qualifications, teaching experiences and other related trainings increase the teaching efficiency and effectiveness of the teachers which are usually indicative of students performance. In addition to these is the teacher's personality which has an inculcative impact

²⁹ John J. Corson, The Governance of Colleges and Universities, (New York: McGraw-Hill Book Co., 1975), p. 101.

³⁰ Suttiprapa, p. 14.

on the students to encourage and challenge them to plant a sense of responsibility and perseverance and to develop their imagination. Cited in a case study in Singapore, teacher's personality attitude on personal philosophy are salient causes of students' dropout and enrolment. The teacher's lifeless presentation of the various segment of a course could be a reason for dropout. Although such reason is very subjective, it could be of equal validity with the so called "objective causes". As revealed in the case study in Non-Formal Education in different countries, it showed that inadequacy of vocational training of teacher handling the program could be a ground for their dropout. Studies reveal the need for closer supervision to familiarize administration about the strengths and weaknesses of teachers for the improvement of the learning schemes.³¹

Student Attitudes

Interests/attitudes of students also provide avenues for them to explore areas where they excel. By attitude is meant a learned capability that affect

³¹ Socorro Alkuno Rosales, "Performance of Secondary Schools under Different Organizational Dimensions", (unpublished master's thesis, University of the Philippines, 1982), p. 72.

the learner's choice of personal action. It is an internal state that originates processes of executive control. These aspects are manifested in their hobbies, books they read, games they play and places they frequently visit.³² Measures of study habits and attitudes influence students performance. The Survey of Study Habits and Attitudes (SSHA) independently accounts for some of the variations in college grades. The SSHA, an inventory used to measure or assess both study habits and attitudes, was developed by Brown and Holtzman. Both high school and college students used the inventory and findings showed correlations between the version of the SSHA and academic grades to be even higher than those generally obtained for the college edition, Form C. High school students obtained a higher correlation than the college students. The difference of correlation for the two groups was due to the greater heterogeneity of the high school students.³³ Ahmann and his associates had findings which were contrary to those cited. They observed that the inventory did not add significance to the battery of

³² John Corson, op. cit. p. 37.

³³ W.H. Holtzman and W.F. Brown, "Evaluating the Study Habits and Attitudes of High School Students", (Journal, Educational Psychology, 1960), p. 109-114.

intellective measure to find relationships.³⁴

Studies however indicated that when ability was controlled, study habits were positively related to performance. As revealed by Carter, when ability was not controlled, it gave out similar findings.³⁵

The results of studies on the relationship between study habits and attitudes toward academic performance point out two facts. First, measure of study habits are positively related to academic success even when ability is controlled. Secondly, positive attitudes toward school and education in general are also positively related to academic achievement.

Instructional Strategies/Approaches

Quality learning can best be achieved by enhancing the process of learning. "The goals that are to be realized through a system of education are educational objectives. If these objectives are

³⁴S.J. Ahmann and others, "Predicting Academic Success in College by Means of a Study Habits and Attitude Inventory", Educational and Psychological Measurement, (New York: Russel Sage Foundation, 1969), p. 34.

³⁵Harold D. Carter, "Improving the Prediction of School Achievement by the Use of the California Study Methods", Educational Administration and Supervision, cited by Lavin, 1959, p. 66.

learned, they become more resistant to forgetting than the mere recall of content. Such student behaviors, besides being useful in the context in which they are learned, are highly transferable to a variety of circumstances.

In actual process, education today is geared toward the recognition of the learner's potentials and the possibility of harnessing these potentials into abilities and capabilities versatile in characteristic. This is simply a departure from the traditional and subjective processes, such as subject-centered, teacher-centered, and child-centered, for the new educational dimensions of learner's potential or ability-centered processes. So that, the subject matter, the teacher, and the child factors are all merged to be means for the educational or instructional ends and toward learner's abilities or capabilities enculturation, formation, maturation, which processes are foundations of abilities and talents.

To carry out the two great themes of the "New Education" which are intellectual excellence and individualization, the school, the teacher in particular, should be versatile and creative on the choice of the teaching methods necessary for effective learning, for not all individuals need different types of learning

activities for self-development. Hence, the overall goal of education for intellectual excellence is to produce a self-educating person who knows how to think, learn, and make judgments independently. For individualization, it requires that each student be conducted through a program of studies that is especially suited to his learning needs, his learning capacities and his rate of learning.³⁷ Considering the different aspects discussed, the following additional related studies seemed to be parallel with the present study, among which is the research work conducted by Laluan³⁸ on the performance of college students in the State University in Region 1. In her study, she used the general averages of the students based on the types of schools they graduated from. The general average of each college student was obtained by summing up the student's grades in all subjects from first to second semester and its summation was divided by the number of subjects. The college grades were analyzed using the Analysis of Variance for the purpose of verifying the result of

³⁷ Elefanio, op. cit., p. 24.

³⁸ Erlinda B. Laluan, "Performance of Second Year College Students in the State Universities in Region 1-- Its Relation to NCEE Scores and Some Selected Variables", (Thesis, M.S., Baguio Central University, 1983), p. 38.

the previous findings indicated in the Duncan Multiple Range Test (DMRT) where graduates from barangay high schools showed lower performance than students from other types of high schools. Results of the study reveal that the students from barangay high schools obtained a mean of 2.57; private high schools with a mean of 2.53; national high schools with a mean of 2.67; and technical high schools with a mean of 2.52. However, despite the differences in mean, a t -value of 3.34 was obtained which is very much lower than t -tabulated of 3.86 thus indicating an insignificant difference among students graduated from other types of schools. It shows then that the students had equal level of performance as compared to the other graduates from other schools, an indication that equal opportunities were provided by the state institution in terms of faculty and facilities.

The study of Limbo centered on the scholastic performance of college students from different types of high schools. Of the 597 students involved in her study, 396 came from the municipal high schools and 366 came from private high schools which were sectarian (281) and a non-sectarian (85). The information gathered was on the type of high schools attended, location of such schools, average grades of students in college for

the first semester and average grades of related subject matter areas. Of the items tested for significant relationship, types of high schools attended by the students showed a significant relationship with scholastic performance in college, using the Chi-Square Test.³⁹ A difference of this study, however, lies on the type of school, since Limbo's study classified the school as public and private whereas the researcher focused on the classification according to curriculum as general high school and vocational high school.

The study of Porcare conducted among college students of VISCA, showed that students from VHS and presently enrolled in vocational colleges achieved better than those from GHS or the general secondary curriculum. This result may be due to the fact that preparation in high school was more or less related to the orientation they received in college. The Chi-Square test obtained a value of 9.0 which was statistically significant at .05 level.⁴⁰

³⁹ Salvacion Limbo, "Factors Affecting the College Scholastic Performance of Students from Different Types of High School", (unpublished master's thesis, Central Mindanao University, 1975), p. 25.

⁴⁰ Alfredo Porcare, "Correlates of Scholastic Performance of VISCA College Freshmen". (unpublished master's thesis, M.S. Agri. Div. VISCA, Leyte, 1984) p. 36.

Another is Bell's study on the comparison of college grades received by college students who had vocational-agriculture in the high school and those who had none. Findings showed that those with vocational-agriculture units did consistently better work in college than those who had none.⁴¹ Bunton's study, however, indicated that students who finished agriculture in high school were prepared equally well for work in the college of agriculture as those who had more academic or college preparatory course.⁴² This is supported by the study of Santos conducted in North Carolina State College where he concluded there was much difference in the scholastic achievement between those who had background in vocational agriculture than those who had not. He also pointed out that there was no evidence that taking high school vocational agriculture was either an advantage or a disadvantage measured by the grades of students in college in the

⁴¹Paul Albert Bell, "Comparison of College Grades Received by Students Having and Not Having Vocational Agriculture in the High School", (Research Problem, M.S. Oklahoma College Library, Oklahoma, Stillmate), p. 19.

⁴²John V. Bunton, "Effectiveness of Secondary Vocational Agriculture", (Master's Report, Colorado and Mechanical College, Fort Collins, Colorado, 1954), p. 19.

general agriculture education.⁴³

Fabiana⁴⁴ conducted a study on the relationship between high school academic performance of graduates of vocationally oriented secondary program and subsequent performance in college. Using the GPA, findings showed that since high school students were trained for work, it was expected that their grades in the technical courses would correlate highly with their high school grades but the coefficient of correlation between high school grade average and freshmen's grade average of students enrolled in the technical courses was .348 only.

The study of Mess showed no significant difference between the vocational and non-vocational groups when their total grade point average for all college work was compared. However, there was a

⁴³Bruno Santos, "Scholastic Achievement of North Carolina State College of Students of Vocational Agriculture as Compared with Students Having no Vocational Work in School", (Thesis, M.S. in Agriculture Education, North Carolina State College, Raleigh North Carolina, 1950), p. 20.

⁴⁴Angelina S. Fabiana, "A Study of the Relationship Between High School and College Academic Performance", (unpublished master's thesis, Central Phil. University, Iloilo, 1968), p. 50.

slight difference in their grades in agriculture subjects in favor of the group that had vocational agriculture in high school.⁴⁵ Cunningham's study revealed that boys who had high school training in vocational agriculture did well or even better in the college of agriculture than those who did not have such preparation.⁴⁶ The study of Tangchai on the scholastic performance of college students enrolled at the college of agriculture found out that students from different types of high school did not have statistically significant difference in scholastic performance during their first year college and that the difference in performance among graduates of these types of high schools were statistically significant in the second year.⁴⁷ In addition, Rev. Fitzpatrick disclosed that

⁴⁵Noel L. Mess, "Vocational Agriculture Credits From High School as a Basic for College of Agriculture Work", (unpublished master's thesis, Technological College, Dept. of Agriculture Education, Texas Technological College, Lubbock), p. 21.

⁴⁶Clarence Cunningham, "Relationships of Selected Pre-college Experiences to Scholastic Achievement in the Ohio State University, (Thesis, M.S., Ohio State University, Columbus, Ohio, 1959), p. 17.

⁴⁷Thiraphene Tangchai, "The Scholastic Performance of College Students Enrolled at the Kasetsart University, College of Agriculture during the SY 1954-55", (Thesis M.S. College of Agriculture, University of the Philippines, 1962), p. 34.

no significant relationship exists between school achievement and variables such as type of school student body, type of high school training, and type of high school attended.⁴⁸ Such various finding could be attributed to Kee's opinion regarding variation of standards. Thus, one who excels in a certain school may not excel in another.⁴⁹ Generally, there are lower educational standards in the rural areas. Barangay high school students are deprived culturally and socially. The study of Santos⁵⁰ showed that the environmental climate is referred to as the total college or university organizational set up conducive for scholastic achievement reflected in purpose, objectives and policy of the institution for the student's curricular and extra curricular programs, student welfare and services, student regulation and physical structure of the college. This was inferred from the responses of the 23 administrator

⁴⁸Rev. Robert J. Fitzpatrick, S.D., Aptitude Testing and Prov'l. Studentry Fape Review, Vol 5, (November, 1975), p. 51.

⁴⁹Francis Wong Hoy Kee, "Comparative Studies in Southeast Asian Education", Heinemann Educational Books (Asia: Ltd., 1973), p. 20.

⁵⁰santos, op. cit., p. 48.

respondents to the 35 items in the Institutional Assessment Measure. They cited the need for limited enrolment and a sizeable budget allocation for facilities necessary in creating an environmental climate conducive for learning.

Relationship with the Present Study

The literature and studies mentioned in this chapter are relevant to the present study because they all deal with scholastic achievement. The studies conducted were mostly toward the identification of factors correlated with scholastic achievement. Comparative emphasis on scholastic achievement of students were considerably noted similar to the present study the fact that the grades or GPAs were used as basis for comparison. Differences however were noted on the type of school last attended by the students, since other studies classified the schools per funding as public and private or per location as rural and urban. Whereas in the present study, the researcher focused on the type of school according to curriculum as general high schools and vocational high schools. Still, other studies compared achievement of college students who had vocational exposure or orientation in the secondary

and those in the vocational institutions with college students having no vocational background at all. Slight similarity exists between the studies reviewed and the present study, since the researcher centered her study interest in a vocational institution where achievements of college students from schools with vocational and academic curricular offerings are compared accordingly with its broad but peculiar character such as that of SSPC.

Chapter 3

METHODOLOGY

This chapter presents the methods and procedures, the research design, the description of samples, the technique used in the gathering of data, and the statistical measure used in the treatment of data.

The Research Design

The researcher used analytical-descriptive method in her study. This research thus involves more than fact gathering and tabulation. It deals with the analysis and interpretation of the data which have been gathered for a specific purpose, for the understanding and solution of significant problems.⁵¹

This study included documentary analysis on the achievement of SSPC college students as reflected in their permanent records in the registrar's office.

The Subjects

The subjects of this study were students of SSPC enrolled in the six courses as shown in Figure 1

⁵¹Gaudencio V. Aquino, "A Review of Methods of Research", Methods of Research, (Manila: Phoenix Publishing House, 1985), p. 7.

namely: the two-year Technical Course, the three-year course leading to the Diploma of Technician (DOT), the four-year course leading to the degree of Bachelor of Science in Industrial Technology (BSIT), the four-year teacher education course leading to the degree of Bachelor of Science in Industrial Education (BSIE), the five-year engineering course leading to the degree of Bachelor of Science in Electrical Engineering (BSEE), and the five-year engineering course leading to the degree of Bachelor of Science in Civil Engineering (BSCE). The samples were chosen from among the college students regularly enrolled during the school year 1985-1986 and 1986-1987 as described under the scope and delimitation.

Technique Used

The researcher mainly used documentary analysis for the data in her study. First, the approval of the College Dean was sought to review the students records in the registrar's office. Upon approval of the request, the researcher started to scrutinize 315 student permanent records, 153 of which were of the two-year technical students and the DOT students while 162 were of the BSIT, BSIE, BSEE, and BSCE students enrolled during the school year 1987-1988.

From these records, the schools last attended by

the students were determined whether general or vocational high schools through purposive sampling. The students who graduated from general high schools were classified as Case A, while those students graduated from vocational high schools were classified as Case B. Irregular students or those who have not completed their studies within the time delimitation (SY 1985-1986 to 1986-1987) were discarded by the researcher. Only those who stayed in the college for the time duration of two years were involved. After classifying the students into two cases, Case A and Case B, their general grade point average were computed. (To compute the grade point average (GPA), please refer to Appendix G for sample computation). The students' ratings in the high school as reflected in the students' permanent record (Form 137-A) were added and divided by the number of subjects. For the rating in college, the mean of the grade point average for the first and second semester during their first year and the mean of the grade point average for first and second semesters during their second year were added and divided by two to get the average rating for two years.

After determining the number of samples by purposive sampling, the researcher compared the means

of the two groups, that is, the mean rating in high school of Case A as well as the mean rating in high school of Case B. A total of 100 samples were selected, 50 for Case A and 50 for Case B which are equal to 58 percent of the total number of regularly enrolled students, in as much as more students enrolled in SSPC came from the general high schools than from the vocational high schools.

Statistical Treatment of Data

The statistical method used in the treatment of the data gathered was the t-test of significance of the difference between the means of two independent samples (uncorrelated data).

The mean was used in determining the average rating obtained in the high school for each of the samples so that the final ratings of each of the two groups were obtained. This statistical method was used in determining the scholastic ratings in college for two years of the same samples, leading to the computation of the grand mean for each of the two groups.

The t-test of significance of the difference between means for independent samples was used to test the null hypothesis, that is, whether the means of the two groups, the GHS group represented by Case A and

the VHS group represented by Case B are the same at .05 level of significance.

Formula used for t-test.⁵²

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\frac{(N_1-1) S_1^2 + (N_2-1) S_2^2}{N_1 + N_2 - 2} \sqrt{\frac{(N_2 + N_1)}{N_1 N_2}}}$$

Where:

t = computed statistical value

\bar{X}_1 = grand mean of scholastic achievement
of college students graduated from the
general high schools.

\bar{X}_2 = grand mean of scholastic achievement
of college students graduated from the
vocational high schools

S_1 = variance for the first group or Case A

S_2 = variance for the second group or Case B

N_1 = number of item means for the first group

N_2 = number of item means for the second group

⁵²W. Guilford and B. Frutcher, Fisher's t-test for Uncorrelated Means, Fundamental Statistics in Psychology and Education, (Tokyo: McGraw-Hill Kagashuka, Ltd., Co., 1973), p. 36.

Chapter 4

PRESENTATION, ANALYSIS AND INTERPRETATION OF DATA

This chapter presents the findings, analysis, and interpretation of the data based on the specific questions raised. Appropriate tables were prepared for purposes of clarity in the interpretation of the data.

The Scholastic Achievement Level of SSPC College Students Graduated from the General High Schools.

Table 1 shows the mean scholastic rating of the 50 graduates from the general high schools who were regularly enrolled for two years. The mean scholastic rating of these students classified as Case A is 2.17. Under the technical curriculum, the average scholastic rating of the 12 graduates from the general high school is 2.44. The eight students enrolled under the DOT curriculum have an average scholastic rating of 2.02. For the six students under the BSIE curriculum, their average scholastic rating is 1.75. The three students under the BSEE curriculum have an average scholastic rating of 2.32 while under the BSCE curriculum, the average scholastic rating of the four students is 2.33. The total average scholastic ratings of the 50 students from the

general high schools were obtained from their two-year stay in college. The ratings presented indicate that the graduates from the general high schools under the BSIE curriculum excelled a little over the other groups of graduates in terms of scholastic achievement.

Table 1. Scholastic Achievement Level of SSPC College Students Graduated From General High Schools

| Curricula | Number | Total Sch. Ratings :First & Second Year: | Average Ratings |
|-----------------------------------|--------|---|--------------------|
| Technical | 12 | 2.55 + 2.32 | 2.44 |
| DOT | 8 | 2.10 + 1.95 | 2.02 |
| BSIT | 17 | 2.24 + 2.15 | 2.20 |
| BSIE | 6 | 1.68 + 1.79 | 1.74 |
| BSEE | 3 | 2.41 + 2.23 | 2.32 |
| BSCE | 4 | 2.31 + 2.35 | 2.33 |
| Mean Scholastic Rating for Case A | | | 2.17 |

The Scholastic Achievement Level
of SSPC College Students Graduated
from the Vocational High Schools.

Shown in Table 2 is the mean scholastic rating for the 50 graduates from the vocational high schools regularly enrolled for two years. The mean scholastic rating of these students classified as Case B is 2.22.

Table 2. Scholastic Achievement Level of SSPC College Students Graduated from Vocational High Schools

| Curricula | Number | Total School Ratings : :First and Second Year: | Average :Ratings: |
|------------------------------------|--------|---|----------------------|
| Technical | 12 | 2.33 + 2.44 | 2.39 |
| DOT | 8 | 2.28 + 2.12 | 2.20 |
| BSIT | 17 | 2.23 + 2.24 | 2.23 |
| BSIE | 6 | 1.82 + 1.81 | 1.82 |
| BSEE | 3 | 2.30 + 2.26 | 2.28 |
| BSCE | 4 | 2.38 + 2.40 | 2.39 |
| Mean Scholastic Rating for Case B. | | | 2.22 |

Under the technical curriculum, the average scholastic rating of the 12 graduates from the vocational high school is 2.39 while the eight students enrolled under the DOT curriculum have an average scholastic rating of 2.20. Under the BSIT curriculum, the average scholastic rating of the 17 students is 2.23 while the six students under the BSIE curriculum have an average scholastic rating of 1.82. Under the BSEE curriculum, the three students have an average scholastic rating of 2.28 while the four students under the BSCE curriculum have an average scholastic ratings of the 50 students graduated from the vocational high schools

were obtained from their first two-year stay in college. The ratings presented indicate that the graduates from the vocational high schools under the BSIE curriculum excelled a little over the other groups in terms of scholastic achievement.

The Difference Between the Scholastic Achievement Level of the SSPC College Students Graduated from the General High Schools and Those from the Vocational High Schools.

The data in table 3 show the mean difference between the scholastic achievement of the 12 students graduated from the general high schools and the 12 students graduated from the vocational high schools under the technical curriculum.

Table 3 shows the graduates from the general high schools represented by Case A with a mean scholastic rating of 2.44 while the graduates from the vocational high schools represented by Case B have a mean scholastic rating of 2.39. The mean difference between them is equal to .05 (please refer to Appendix L-1 for computation). The t-computed is equal to 0.38. The number of degree of freedom is $N_1 + N_2 - 2$ or $12 + 12 - 2 = 22$. For 22 degrees of freedom, we require a t of 2.074 for the result to be significant at five percent level. Since the observed value of t which is 0.38 is

Table 3. Difference Between the Scholastic Achievement Level of Students Graduated From the GHS and the VHS (Technical Curriculum)

| Case A (GHS) | : | Case B (VHS) |
|--------------|---------|--------------|
| 2.56 | | 2.585 |
| 2.255 | | 2.265 |
| 2.385 | | 2.36 |
| 2.45 | | 3.285 |
| 2.305 | | 2.825 |
| 2.35 | | 2.245 |
| 2.47 | | 2.094 |
| 3.15 | | 2.43 |
| 2.18 | | 2.19 |
| 2.56 | | 2.26 |
| 2.5 | | 2.22 |
| 2.125 | | 1.925 |
| Total | 29.29 | 28.684 |
| MSR | X= 2.44 | X= 2.39 |

Mean Difference = .05

t. computed = .38

degree of freedom = 22

tabular t = 2.07

level of significance = .05

interpretation = not significant

less than the table value of 2.074, it can be said that the difference between Case A and Case B is not significant. This means that the type of school where the students have been graduated from does not have much to do with scholastic achievement.

Table 4 presents the mean difference between the eight students graduated from the general high schools and the eight students graduated from the vocational high schools under the DOT curriculum.

The graduates from the general high schools represented by Case A have a mean scholastic rating of 2.02 while the graduates from the vocational high schools represented by Case B have a mean scholastic rating of 2.20. The mean difference between them is equal to 0.08 (Please refer to Appendix L-2 for computation). The t -computed is equal to 1.43. The number of degrees of freedom is $N_1 + N_2 - 2$ or $8 + 8 - 2 = 14$. For 14 degrees of freedom, it requires a t of 2.14 for significance at five percent level. Since the observed value of $t = 1.43$ is less than the tabular value of 2.14 it can be said that the difference between Case A and Case B is not significant.

Table 5 shows the mean difference between the 17 students graduated from the general high schools and the 17 students graduated from the vocational

Table 4. Difference Between the Scholastic Achievement Level of Students Graduated from the GHS and the VHS (DOT Curriculum)

| | Case A (GHS) | Case B (VHS) |
|-------|------------------|------------------|
| | 1.87 | 2.331 |
| | 2.195 | 2.141 |
| | 1.96 | 2.115 |
| | 1.71 | 2.7 |
| | 2.195 | 2.155 |
| | 2.54 | 1.905 |
| | 1.88 | 2.135 |
| | 1.85 | 2.13 |
| Total | 16.18 | 17.61 |
| Mean | $\bar{X} = 2.02$ | $\bar{X} = 2.20$ |

Mean Difference = .08

t computed = 1.43

degree of freedom = 14

tabular t = 2.14

level of significance = .05

interpretation = not significant

Table 5. Difference Between the Scholastic Achievement Level of Students Graduated from the GHS and VHS (BSIT Curriculum)

| Case A (GHS) | : | Case B (VHS) |
|------------------|---|------------------|
| 2.32 | | 1.895 |
| 2.265 | | 2.335 |
| 2.255 | | 2.09 |
| 1.98 | | 2.025 |
| 2.47 | | 2.49 |
| 2.18 | | 1.88 |
| 2.35 | | 2.37 |
| 2.085 | | 2.24 |
| 1.895 | | 2.095 |
| 2.045 | | 2.4 |
| 2.125 | | 2.48 |
| 2.175 | | 2.375 |
| 2.235 | | 2.32 |
| 2.495 | | 2.215 |
| 2.24 | | 2.415 |
| 2.185 | | 2.215 |
| 2.025 | | 2.1 |
| EX = 37.325 | | EX = 37.94 |
| \bar{X} = 2.20 | | \bar{X} = 2.23 |

Mean Difference = -0.03

t computed = -0.49

degrees of freedom = 32

tabular t = 1.696

level of significance = .05

interpretation = not significant

high schools under the BSIT curriculum.

These graduates from the general high schools represented by Case A have a mean scholastic rating of 2.20 while the mean scholastic rating of the graduates from the vocational high schools represented by Case B have a mean scholastic rating of 2.23. The mean difference between them is equal to .03. (Please refer to Appendix L-3 for computation). The t computed is equal to .49. The number of degree of freedom is $N_1 + N_2 - 2$ or $17 + 17 - 2 = 32$. For 32 degrees of freedom, we require a t of 1.696 for the result to be significant at five percent level. Since the observed value of $t = 0.49$ is much less than the table value of $t = 1.696$, therefore, the difference between Case A and Case B is not significant.

The data in table 6 show the mean difference between the scholastic achievement of six students graduated from the general high schools and the six students graduated from the vocational high schools under the BSIE curriculum.

These graduates from the general high schools represented by Case A have a mean scholastic rating of 1.73 while the graduates from the vocational high schools represented by Case B have a mean scholastic rating of

Table 6. Difference Between the Scholastic Achievement Level of Students Graduated from the GHS and the VHS (BSIE Curriculum)

| Case A (GHS) | : | Case B (VHS) |
|--------------------|---|--------------------|
| 1.73 | | 1.89 |
| 1.8 | | 2.12 |
| 1.6605 | | 1.815 |
| 1.805 | | 1.6 |
| 1.8 | | 1.71 |
| 1.8 | | 1.775 |
| EX = 10.396 | | EX = 10.81 |
| $\bar{X}_1 = 1.73$ | | $\bar{X}_2 = 1.82$ |

Mean Difference = -0.09

t computed = 1.07

degrees of freedom = 10

tabular t = 2.23

level of significance = .05

interpretation = not significant

1.82. The mean difference between them is equal to .09. (Please refer to Appendix L-4 for computation). The t computed is equal to 1.07. The number of degree of freedom is $N_1 + N_2 - 2$ or $6 + 6 - 2 = 10$. For 10 degrees of freedom, we require a t of 2.23 for the result to be

significant at the five percent level. Since the observed value of $t=1.07$ is less than the table value of 2.23, it can be said that the difference between Case A and Case B is not significant.

Table 7 indicates the mean difference between the three students graduated from the general high schools and the three students graduated from the vocational high schools under the BSEE curriculum.

Table 7. Difference Between the Scholastic Achievement Level of Students Graduated from the GHS and the VHS (BSEE Curriculum)

| Case A (GHS) | : | Case B (VHS) |
|--------------------|---|--------------------|
| 2.52 | | 2.325 |
| 2.185 | | 2.11 |
| 2.25 | | 2.4 |
| $EX_1 = 6.96$ | | $EX_2 = 6.835$ |
| $\bar{X}_1 = 2.32$ | | $\bar{X}_2 = 2.28$ |

Mean Difference = .04

t computed = .03

degrees of freedom = 4

tabular t = 2.78

level of significance = .05

interpretation = not significant

The graduates from the general high schools represented by Case A have a mean scholastic rating of 2.32 while the graduates from the vocational high schools represented by Case B have a mean scholastic rating of 2.28. The mean difference between them is equal to .04 (Please see Appendix L-5 for computation). The t computed is equal to .30. The number of degrees of freedom is $N_1 + N_2 - 2$ or $3 + 3 - 2 = 4$. For four degrees of freedom, we require a t of 2.78 to be significant at five percent level. Since the observed value of $t = .30$ is less than the table value of $t = 2.78$, it can be said that a difference between Case A and B is not significant.

Table 8 reflects the mean difference between the 4 graduates from the general high schools and the 4 graduates from the vocational high schools under the BSCE curriculum.

The graduates from the general high schools represented by Case A have a mean scholastic rating of 2.33 while the graduates from the vocational high schools represented by Case B have a mean scholastic rating of 2.39. The mean difference between them is equal to .06. The t computed is equal to .33. (Please see Appendix L-6 for computation). The number of degrees of freedom is $N_1 + N_2 - 2$ or $4 + 4 - 2 = 6$. For

Table 8. Difference Between the Scholastic Achievement Level of Students Graduated from the GHS and the VHS (BSCE Curriculum)

| Case A (GHS) | : | Case B (VHS) |
|--------------------|---|--------------------|
| 2.42 | | 2.455 |
| 2.725 | | 2.58 |
| 2.085 | | 2.395 |
| 2.08 | | 2.115 |
| $EX_1 = 9.31$ | | $EX_2 = 9.545$ |
| $\bar{X}_1 = 2.33$ | | $\bar{X}_2 = 2.39$ |

Mean Difference = -0.06

t computed = -0.33

degrees of freedom = 6

tabular t = 2.45

level of significance = .05

interpretation = insignificant

6 degrees of freedom, we require a t of 2.45 for the result to be significant at 5 percent level. Since the observed value of t which is .33 is less than the table value of t=2.45, it can be said that the difference between Case A and Case B is not Significant.

Table 9 reflects the comparison in summary of the computation of t-test of the mean scholastic ratings of the two groups of graduates according to curriculum.

Table 9. Difference Between the Scholastic Achievement Level of the Students Graduated from the GHS and the VHS

| Curriculum | Case A | Case B |
|------------|--------|--------|
| Technical | 2.44 | 2.39 |
| DOT | 2.02 | 2.20 |
| BSIT | 2.20 | 2.23 |
| BSIE | 1.73 | 1.82 |
| BSEE | 2.32 | 2.28 |
| BSCE | 2.33 | 2.39 |
| T o t a l | 2.17 | 2.22 |

Mean Difference = .05

t computed = .37

degrees of freedom = 10

tabular t = 2.23

level of significance = .05

interpretation = insignificant

The overall data of the 50 graduates from the general high schools represented by Case A has a mean

scholastic rating of 2.17 while the 50 graduates from the vocational high schools represented by Case B has a mean scholastic rating of 2.22. The ratings of these two groups yielded a mean difference of .05. (Please see Appendix L-7 for computation). The t computed is equal to .37. The number of degrees of freedom is $N_1 + N_2 - 2$ or $6 + 6 - 2 = 10$. For 10 degrees of freedom, we require a t of 2.23 to be significant at 5 percent level. The observed value of $t = .37$ is less than the table value of 2.23 which means that the overall mean difference between Case A and Case B is not significant. Therefore, the type of school the students graduated from had no influence over their scholastic achievement while in the SSPC.

Chapter 5

SUMMARY, CONCLUSION AND RECOMMENDATION

This chapter shows the summary of findings, conclusions and recommendations of this study.

Summary

This study aimed to determine the difference between the scholastic achievement of SSPC college students graduated from the general high schools and vocational high schools for two consecutive years, particularly from school year 1985-86 to school year 1986-87. Specifically, this study sought answers to the questions on the achievement levels of SSPC college students from the two types of schools, the general and the vocational high schools.

The descriptive method of research was employed in this study using documentary analysis of the Form 137-A and Form 137-T (permanent records) of 100 college students. To enrich its content, an informal interview was conducted with teachers who taught the college subjects from 1985-1987.

A review of several books, unpublished masteral thesis, periodicals and other publications, both local and foreign, were also scanned to gather informations

relevant to the study.

The subjects used in this study were college students enrolled for school year 1985-86 to 1986-87 in the first and second year respectively.

The data gathered were recorded and tabulated as shown in the preceding chapter. They were analyzed and interpreted using the mean and t-test to measure the significance of the difference between the two means of independent samples at .05 level of significance.

Findings

Based on the analysis and interpretation, the following findings were highlighted:

1. The obtained mean scholastic rating of the 50 students who graduated from the general high schools was computed according to courses as follows: Technical 2.44 - good; DOT 2.02 - good; BSIT 2.20 - good; BSIE 1.73 - good; BSEE 2.32 - good; BSCE 2.33 - good. Overall, it yielded an average scholastic mean rating of 2.17 revealing a satisfactory achievement of the said students.

2. The obtained mean scholastic rating of the 50 students graduated from the vocational high schools was computed according to courses as follows: Technical 2.39 - good; DOT 2.20 - good; BSIT 2.23 - good;

BSIE 1.82 - good; BSEE 2.28 - good; BSCE 2.39 - good. Overall, it yielded an average mean scholastic rating of 2.17 revealing satisfactory achievement of the said students.

3. The obtained value of the difference between the scholastic achievement level obtained by the graduates from the general high schools and vocational high schools was -0.37. The result is too small than the critical value of 2.23 at .05 level of significance. The researcher, therefore, has basis for accepting the null hypothesis that there is no significant difference between the scholastic achievement level of SSPC college students graduated from the vocational and the general high schools.

Conclusions

The following conclusions were derived from the foregoing findings:

1. The scholastic achievement level of SSPC college students graduated from the general high schools revealed a satisfactory mark. This means that despite the difference in curriculum and other factors of learning, the subjects were able to cope with the standard requirement set by the college which revealed a kind of flexible educational experience in them.

2. The scholastic achievement level of TSPC college students graduated from the vocational high schools revealed a satisfactory mark. This means that these college students had the same interest level in coping with the standard criteria set by the college.

3. The general scholastic achievement level of the college students who graduated from the VHS and GHS revealed no significant difference. Therefore, the null hypothesis is accepted that the type of school where the students come from does not have much to do with scholastic achievement.

Recommendations

After a thorough study of the scholastic achievement of both the GHS and the VHS graduates, and based on the findings of this study, the researcher recommends the following:

1. A study is recommended toward policy reform for a comprehensive discipline integration for both vocational and general high schools curricula through the tertiary or higher educational aims;

2. A study on whether group leadership of students in school, curricular or extra-curricular, consistently relates with superior scholastic achievement, or merely, that leadership is an affective

or common group personality/norm projection for scholastic achievers;

3. A study on the same problem is recommended in other schools to further confirm validity of findings of the present study; and

4. A follow-through study on the same problem and research venue is recommended ten years after for findings relevant to educational or curricular planning and development schemes.

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A P P E N D I C E S

APPENDIX A

SAMAR STATE POLYTECHNIC COLLEGE
Catbalogan, Samar

April 21, 1986

The Dean of Graduate Studies
Samar State Polytechnic College
Catbalogan, Samar

S i r :

The following research problems/proposals are hereby submitted for appropriate action of this Office; preferably for topic number one:

1. SCHOLASTIC ACHIEVEMENT OF SSPC COLLEGE STUDENTS GRADUATED FROM GENERAL HIGH SCHOOLS AND VOCATIONAL HIGH SCHOOLS
2. THE PERCENTAGE OF FAILURE OF ALL SSPC SECONDARY STUDENTS FROM FIRST YEAR TO FOURTH YEAR IN SCHOOL YEAR 1985-1986
3. A SURVEY ON RELEVANCE OF THE COURSES OFFERED IN SSPC TO THE MANPOWER NEEDS OF SAMAR

Early and favorable action on this matter will be highly appreciated.

Very truly yours,

(SGD.) VICTORIA C. SABALZA
Researcher

Recommending Approval:

(SGD.) ALEJANDRO E. CANANUA, M.Ed.
Head, Research and Development

APPROVED:

(SGD.) DOMINADOR Q. CABANGANAN, Ed. D.
Dean, Graduate Studies

APPENDIX B

Republic of the Philippines
SAMAR STATE POLYTECHNIC COLLEGE
Catbalogan, Samar

GRADUATE SCHOOL

APPLICATION FOR ASSIGNMENT OF ADVISER

NAME SABALZA, VICTORIA CUI
Family Name First Name Middle Name

CANDIDATE FOR DEGREE IN Master of Arts in Education

AREA OF SPECIALIZATION Administration and Supervision

TITLE OF PROPOSED THESIS THE SCHOLASTIC ACHIEVEMENT
OF SSPC COLLEGE STUDENTS GRADUATED FROM GENERAL
HIGH SCHOOLS AND VOCATIONAL HIGH SCHOOLS

NAME OF REQUESTED ADVISER DR. BERNARDO S. OLIVA

APPROVAL OF ADVISER _____ DISAPPROVAL _____

(SGD.) BERNARDO S. OLIVA, Ph. D.
Adviser

Date 12/ 7 /86

APPROVED:

(SGD.) DOMINADOR Q. CABANGANAN, Ed. D.
Dean, Graduate Studies

APPENDIX C

Republic of the Philippines
SAMAR STATE POLYTECHNIC COLLEGE
Catbalogan, Samar

January 28, 1987

The Dean of Graduate Studies
Samar State Polytechnic College
Catbalogan, Samar

S i r :

I have the honor to request permission that I be allowed to review with the Registrar's Office the records of college students for SY 1985-87 who have been selected as study samples for my research on: "THE SCHOLASTIC ACHIEVEMENTS OF SSPC COLLEGE STUDENTS GRADUATED FROM GENERAL HIGH SCHOOLS AND VOCATIONAL HIGH SCHOOLS".

The foregoing research activity shall start January 30, 1987.

Your favorable action on this request is anticipated.

Very truly yours,

(SGD.) VICTORIA C. SABALZA
Researcher

APPROVED:

(SGD.) DOMINADOR Q. CABANGANAN, Ed. D.
Dean of Graduate Studies

APPENDIX D

SAMAR STATE POLYTECHNIC COLLEGE
Catbalogan, Samar

January 9, 1988

The Dean of Graduate Studies
Samar State Polytechnic College
Catbalogan, Samar

S i r :

I have the honor to submit herewith for perusal five (5) copies of my thesis proposal : "THE SCHOLASTIC ACHIEVEMENTS OF SSPC COLLEGE STUDENTS GRADUATED FROM THE GENERAL HIGH SCHOOLS AND VOCATIONAL HIGH SCHOOLS".

In this connection, a schedule for defense of the above thesis proposal is requested.

Your early action on this request will be highly appreciated.

Very truly yours,

VICTORIA C. SABALZA
Researcher

Recommending Approval:

(SGD.) BERNARDO S. OLIVA, Ph. D.
Adviser

APPROVED:

(SGD.) DOMINADOR Q. CABANGANAN, Ed. D.
Dean of Graduate School

APPENDIX E

SAMAR STATE POLYTECHNIC COLLEGE
Catbalogan, Samar

January 21, 1989

The Dean of Graduate Studies
Samar State Polytechnic College
Catbalogan, Samar

S i r :

I have the honor to request that I be scheduled February 7, 1989 to defend my thesis entitled: "SCHOLASTIC ACHIEVEMENT OF SSPC COLLEGE STUDENTS GRADUATED FROM GENERAL HIGH SCHOOLS AND VOCATIONAL HIGH SCHOOLS".

In this connection, I am submitting herewith six copies of my thesis for review with my adviser, the chairman and with the members of the panel of examiners.

I hope for your early and favorable action on this request.

Very truly yours,

(SGD.) VICTORIA C. SABALZA
Researcher

Recommending Approval:

(SGD.) BERNARDO C. OLIVA, Ph. D.
Adviser

APPROVED:

(SGD.) DOMINADOR Q. CABANGANAN, Ed. D.
Dean of Graduate Studies

APPENDIX F

RATING SYSTEM ADOPTED BY THE COLLEGE

| | |
|-----------|---------------------|
| 1.0 | Excellent |
| 1.1 - 1.5 | Superior |
| 1.6 - 2.0 | Very Good |
| 2.1 - 2.5 | Good |
| 2.6 - 3.0 | Fair or Passing |
| 3.1 - 4.0 | Conditional Failure |
| 4.1 - 5.0 | Failure |
| Inc. | Incomplete |

APPENDIX G

SAMPLE COMPUTATION FOR GPA

Formula Used:

$$\text{GPA} = \frac{R_1 + R_2}{2}$$

GPA = Grade Point Average

R_1 = Rating for First Semester

R_2 = Rating for Second Semester

$$R_1 = 2.22$$

$$R_2 = 2.00$$

$$\text{GPA} = \frac{2.22 + 2.00}{2}$$

$$= 4.22$$

$$= 2.11$$

APPENDIX H-1

SCHOOLS WHERE STUDENTS GRADUATED
(General High Schools)

1. Eastern Samar National Comprehensive High School
2. Pagsanghan Community High School
3. Pinabacdao Community High School
4. Guintarcan Barangay High School
5. Costa Rica Barangay High School
6. San Andres Barangay High School
7. Calbiga Community High School
8. Sta. Rita Community High School
9. Daram Community High School
10. Samar National High School
11. Wright Community High School
12. Basey National High School
13. Laongan Barangay High School
14. Rawis Barangay High School
15. Bohol National High School
16. Bagacay Barangay High School
17. Chitongo High School
18. St. Joseph Academy
19. Fr. Seno Memorial School
20. St. Anthony Academy

APPENDIX H-1
(Cont'd.)

21. Pearl Island Academy
22. Samar College
23. Holy Cross Academy
24. Northern Academy
25. St. Francis of Assisi

APPENDIX H-2

SCHOOLS WHERE STUDENTS GRADUATED
(Vocational High Schools)

1. Basey National Agricultural School
2. Bobon School of Fisheries
3. Cabucgayen National School of Arts and Trades
4. Clarencio Calagos Memorial School of Fisheries
5. Nena School of Craftsmanship
6. Samar National Agricultural School
7. Samar National School of Arts and Trades
8. Samar State Polytechnic College
9. Samar Regional School of Fisheries
10. University of Eastern Philippines
11. Wright Community High School

[illegible]

APPENDIX K-1

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE GENERAL HIGH SCHOOL RESPONDENTS UNDER THE
TECHNICAL CURRICULUM

| X | X ² | |
|-----------|-------------------------|---|
| 2.56 | 6.5536 | |
| 2.255 | 5.085025 | $S^2 = \frac{N (EX^2 - (EX)^2)}{N (N - 1)}$ |
| 2.385 | 5.688225 | |
| 2.45 | 6.0025 | $= \frac{12 (72.25996) - 29.29^2}{12 (12 - 1)}$ |
| 2.305 | 5.313025 | |
| 2.35 | 5.5225 | $= \frac{867.1188 - 587.9041}{132}$ |
| 2.47 | 6.1009 | |
| 3.15 | 9.9225 | $= \frac{9.2147}{132}$ |
| 2.18 | 4.7524 | |
| 2.56 | 6.5536 | $= .0698083$ |
| 2.5 | 6.25 | |
| 2.125 | 4.515625 | |
| EX= 29.29 | EX ² 72.2599 | |

$$X = 2.44$$

APPENDIX K-2

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE GENERAL HIGH SCHOOL RESPONDENTS UNDER
THE DOT CURRICULUM

| X | X ² | |
|------------------|----------------------------|--|
| 1.87 | 3.4969 | |
| 2.195 | 4.818025 | S ² = $\frac{N (EX^2) - (EX)^2}{N (N-1)}$ |
| 1.96 | 3.8416 | |
| 2.195 | 4.818025 | = $\frac{8(33.23235) - (16.18)^2}{8 (8 - 1)}$ |
| 2.71 | 2.9245 | |
| 2.54 | 6.4516 | = $\frac{265.8588 - 261.7924}{56}$ |
| 1.86 | 3.4596 | |
| <u>1.85</u> | <u>3.4225</u> | = $\frac{4.0664}{56}$ |
| EX = 16.18 | EX ² = 33.23235 | = .0726145 |
| \bar{X} = 2.02 | | |

APPENDIX K-3

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE GENERAL HIGH SCHOOL RESPONDENTS UNDER
THE BSIT CURRICULUM

| X | X ² | |
|------------------|-----------------------------|--|
| 2.32 | 5.3824 | |
| 2.265 | 5.130225 | s ² = $\frac{N (EX^2) - (EX)^2}{N (N - 1)}$ |
| 2.255 | 5.085025 | |
| 1.98 | 3.9204 | = $\frac{17(82.373075) - (37.325)^2}{17(17-1)}$ |
| 2.47 | 6.1009 | |
| 2.18 | 4.7524 | = $\frac{1400.3423 - 1393.1556}{272}$ |
| 2.35 | 5.5225 | |
| 2.085 | 4.347225 | = $\frac{7.18665}{272}$ |
| 1.895 | 3.591025 | |
| 2.045 | 4.182025 | = .0264215 |
| 2.125 | 4.515625 | |
| 2.175 | 4.730625 | |
| 2.235 | 4.995225 | |
| 2.495 | 6.225025 | |
| 2.24 | 5.0176 | |
| 2.185 | 4.774225 | |
| 2.025 | 4.100625 | |
| EX = 37.325 | EX ² = 82.373075 | |
| \bar{X} = 2.20 | | |

APPENDIX K-4

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE GENERAL HIGH SCHOOL RESPONDENTS UNDER
THE BSIE CURRICULUM

| X | X ² |
|---------------------|--|
| 1.73 | 2.9929 |
| 1.9 | 3.61 |
| 1.6605 | 2.7572603 |
| 1.605 | 2.576025 |
| 1.7 | 2.89 |
| 1.8 | 3.24 |
| <u>EX = 10.3955</u> | <u>EX₁² = 18.066185</u> |
| $\bar{X} = 1.73$ | $S^2 = \frac{N(EX^2) - (EX)^2}{N(N - 1)}$ $= \frac{6(18.066185) - (10.3955)^2}{6(6 - 1)}$ $= \frac{108.3971 - 108.16}{30}$ $= \frac{.2371}{30}$ $= .0110230$ |

APPENDIX K-5

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE GENERAL HIGH SCHOOL RESPONDENTS UNDER
THE BSEE CURRICULUM

| X | X^2 |
|-------------------|-----------------------------------|
| 2.52 | 6.3504 |
| 2.185 | 4.774225 |
| 2.25 | 5.0625 |
| <u>EX = 6.955</u> | <u>EX² = 16.187125</u> |

$$\bar{X} = 2.32$$

$$\begin{aligned}
 S^2 &= \frac{N (EX^2) - (EX)^2}{N (N-1)} \\
 &= \frac{13 (16.187125) - (6.955)^2}{6} \\
 &= \frac{48.561375 - 48.372025}{6} \\
 &= \frac{.18935}{6} \\
 &= .0315583
 \end{aligned}$$

APPENDIX K-6

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE GENERAL HIGH SCHOOL RESPONDENTS UNDER
THE BSCE CURRICULUM

| X | X ² |
|------------------|----------------------------------|
| 2.42 | 5.8564 |
| 2.725 | 7.425625 |
| 2.085 | 4.347225 |
| 2.08 | 4.3264 |
| <u>EX = 9.31</u> | <u>EX² = 21.95565</u> |
| $\bar{X} = 2.33$ | |

$$\begin{aligned}
 S^2 &= \frac{N (EX^2) - (EX)^2}{N (N-1)} \\
 &= \frac{4 (21.95565) - (9.31)^2}{4 (4-1)} \\
 &= \frac{87.8226 - 86.6761}{12} \\
 &= \frac{1.1465}{12} \\
 &= .0955417
 \end{aligned}$$

APPENDIX K-7

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE VOCATIONAL HIGH SCHOOL RESPONDENTS
UNDER THE TECHNICAL CURRICULUM

| X | X ² | |
|------------------|------------------------|---|
| 2.585 | 6.68225 | |
| 2.265 | 5.130225 | $S^2 = \frac{N(\sum X^2) - (\sum X)^2}{N(N-1)}$ |
| 2.36 | 5.5696 | |
| 3.285 | 10.791225 | $= \frac{12(70.004675) - (28.68)^2}{12(12-1)}$ |
| 2.825 | 7.980625 | |
| 2.245 | 5.040025 | $= \frac{840.0558 - 822.5424}{132}$ |
| 2.09 | 4.3681 | |
| 2.43 | 5.9049 | $= \frac{17.5134}{132}$ |
| 2.19 | 3.70562 | |
| 2.26 | 4.9284 | $= 0.1326773$ |
| 2.22 | 4.7961 | |
| 1.925 | 5.1076 | |
| $\sum X = 28.68$ | $\sum X^2 = 70.004675$ | |
| $\bar{X} = 2.39$ | | |

APPENDIX K-8

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE VOCATIONAL HIGH SCHOOL RESPONDENTS
UNDER THE DOT CURRICULUM

| X | X ² |
|--------------------|-----------------------------------|
| 2.331 | 5.433561 |
| 2.141 | 4.583881 |
| 2.115 | 4.473225 |
| 2.155 | 4.644025 |
| 2.7 | 7.29 |
| 1.905 | 3.629025 |
| 2.133 | 4.558225 |
| 2.13 | 4.5369 |
| <u>EX = 17.612</u> | <u>EX² = 39.148842</u> |
| $\bar{X} = 2.20$ | |

$$\begin{aligned}
 S^2 &= \frac{N (EX^2) - (EX)^2}{N (N-1)} \\
 &= \frac{8 (39.148842) - (17.612)^2}{8 (8-1)} \\
 &= \frac{313.19074 - 310.18254}{56} \\
 &= \frac{3.0082}{56} \\
 &= .0537177
 \end{aligned}$$

APPENDIX K-9

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE VOCATIONAL HIGH SCHOOL RESPONDENTS
UNDER THE BSIT CURRICULUM

| X | X ² | |
|------------------|-------------------------|--|
| 1.895 | 3.591025 | |
| 2.335 | 5.452225 | |
| 2.09 | 4.3681 | |
| 2.025 | 4.100625 | |
| 2.49 | 6.2001 | $s^2 = \frac{N (EX^2) - (EX)^2}{N (N-1)}$ |
| 1.88 | 3.5344 | |
| 2.37 | 5.6169 | $= \frac{17(85.2581) - (37.94)^2}{17(17-1)}$ |
| 2.24 | 5.0176 | |
| 2.095 | 4.389025 | $= \frac{1449.3877 - 1439.4436}{272}$ |
| 2.4 | 5.76 | |
| 2.48 | 6.1504 | $= \frac{9.9441}{272}$ |
| 2.375 | 5.640625 | |
| 2.32 | 5.3824 | $= .365592$ |
| 2.215 | 4.906225 | |
| 2.415 | 5.832225 | |
| 2.215 | 4.906225 | |
| 2.1 | 4.41 | |
| EX= 37.94 | EX ² 85.2581 | |
| $\bar{X} = 2.23$ | | |

APPENDIX K-10

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE VOCATIONAL HIGH SCHOOL RESPONDENTS
UNDER THE BSIE CURRICULUM

| X | X ² |
|-------------------|----------------------------------|
| 1.89 | 3.5721 |
| 2.12 | 4.4444 |
| 1.815 | 3.294225 |
| 1.6 | 2.56 |
| 1.71 | 3.150625 |
| 1.775 | 2.9241 |
| <u>EX = 10.91</u> | <u>EX² = 19.99545</u> |

$$\bar{X} = 1.82$$

$$\begin{aligned}
 s^2 &= \frac{N (EX)^2 - (EX)^2}{N (N-1)} \\
 &= \frac{6 (19.99545) - 10.91^2}{6 (6-1)} \\
 &= \frac{119.9727 - 119.0281}{30} \\
 &= \frac{.9446}{30} \\
 &= .0314867
 \end{aligned}$$

APPENDIX K-11

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE VOCATIONAL HIGH SCHOOL RESPONDENTS
UNDER THE BSEE CURRICULUM

| X | X ² |
|-------------------|-----------------------------------|
| 2.325 | 5.405615 |
| 2.11 | 4.4521 |
| 2.4 | 5.76 |
| <u>EX = 6.835</u> | <u>EX² = 15.617725</u> |

$$\bar{X} = 2.28$$

$$\begin{aligned}
 S^2 &= \frac{N (EX^2) - (EX)^2}{N (N-1)} \\
 &= \frac{3 (15.617725) - (6.835)^2}{3 (3-1)} \\
 &= \frac{46.853175 - 46.717225}{6} \\
 &= \frac{.13595}{6} \\
 &= .0226583
 \end{aligned}$$

APPENDIX K-12

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE VOCATIONAL HIGH SCHOOL RESPONDENTS
UNDER THE BSCE CURRICULUM

| X | X ² |
|-------------------|-----------------------------------|
| 2.455 | 6.027025 |
| 2.58 | 6.6564 |
| 2.395 | 5.736025 |
| 2.115 | 4.473225 |
| <u>EX = 9.545</u> | <u>EX² = 22.892675</u> |

$$\bar{X} = 2.39$$

$$\begin{aligned}
 S^2 &= \frac{N (\overline{EX^2}) - (EX)^2}{N (N-1)} \\
 &= \frac{4 (22.892675) - (9.545)^2}{4 (4-1)} \\
 &= \frac{91.5707 - 91.107025}{12} \\
 &= \frac{.463675}{12} \\
 &= .0386396
 \end{aligned}$$

APPENDIX K-13

COMPUTATION FOR FINDING THE MEAN AND GROUP VARIANCE
OF THE RESPONDENTS FROM GHS AND VHS

| Case A | | | Case B | | |
|---|---|---|---|---|--|
| 2.44 | = | 5.9536 | 2.39 | = | 5.7121 |
| 2.02 | = | 4.0804 | 2.20 | = | 4.84 |
| 2.20 | = | 4.84 | 2.23 | = | 4.9729 |
| 1.73 | = | 2.9756 | 1.82 | = | 3.3124 |
| 2.33 | = | 5.4289 | 2.28 | = | 5.1984 |
| 2.32 | = | 5.3824 | 2.39 | = | 5.7121 |
| <u>EX₁</u> =13.04 | | <u>EX₁²</u> =28.6650354 | <u>EX₂</u> =13.3073578 | | <u>EX₂²</u> =29.74 |
| $\bar{X}_1 = 2.17$ | | | $\bar{X}_2 = 2.22$ | | |
| $s_1^2 = \frac{N_1(EX_1^2) - (EX_1)^2}{N_1(N_1 - 1)}$ | | | $s_2^2 = \frac{N_2(EX_2^2) - (EX_2)^2}{N_2(N_2 - 1)}$ | | |
| = $\frac{6(28.6650354) - 13.0380548^2}{6(6 - 1)}$ | | | = $\frac{6(29.73605631) - 13.3073578^2}{6(6 - 1)}$ | | |
| = $\frac{171.99021 - 169.99088}{30}$ | | | = $\frac{178.4163 - 177.08578}{30}$ | | |
| = $\frac{1.99933}{30}$ | | | = $\frac{1.33056}{30}$ | | |
| = .0666443 | | | = .044352 | | |

APPENDIX L-1

COMPUTATION FOR FINDING THE T VALUE OF ACHIEVEMENT
OF RESPONDENTS - TECHNICAL CURRICULUM

$$\begin{aligned}
 t_c &= \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\frac{(N_1-1)s_1^2 + (N_2-1)s_2^2}{N_1 + N_2 - 2} \left[\frac{N_2 + N_1}{N_1(N_2)} \right]}} \\
 &= \frac{2.44 - 2.39}{\sqrt{\frac{11(.0698083) + 11(.1326773)}{22} \left[\frac{12 + 12}{12(12)} \right]}} \\
 &= \frac{.05}{\sqrt{\frac{2.2273416}{22} \left[.1666666 \right]}} \\
 &= \frac{.05}{\sqrt{.0168737}} \\
 &= \frac{.05}{.1298991} \\
 &= .38
 \end{aligned}$$

APPENDIX L-2

COMPUTATION FOR FINDING THE T VALUE OF ACHIEVEMENT
OF RESPONDENTS OF THE DOT CURRICULUM

$$t_c = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(N_1 - 1)S_1^2 + (N_2 - 1)S_2^2}{N_1 + N_2 - 2} \right] \left[\frac{N_2 + N_1}{N_1(N_2)} \right]}}$$

$$= \sqrt{\left[\frac{7(.0726143) + (7)(.0537177)}{8 + 8 - 2} \right] \left[\frac{8 + 8}{8(8)} \right]}$$

$$= \frac{- .18}{.063166 \quad (.25)}$$

$$= \frac{- .18}{.1256642}$$

$$= -1.43$$

APPENDIX L-3

COMPUTATION FOR FINDING THE T VALUE OF ACHIEVEMENT
OF RESPONDENTS OF THE BSIT CURRICULUM

$$\begin{aligned}
 t_c &= \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(N_1-1) s_1^2 + (N_2-1) s_2^2}{N_1 + N_2 - 2} \right] \left[\frac{N_2 + N_1}{N_1 N_2} \right]}} \\
 &= \frac{2.20 - 2.23}{\sqrt{\left[\frac{16 (.0264215) + 16 (.0365592)}{17 + 17 - 2} \right] \left[\frac{17 + 17}{17 (17)} \right]}} \\
 &= \frac{-.03}{\sqrt{\frac{1.0076396}{32} (.117647)}} \\
 &= \frac{-.03}{\sqrt{3.70473 \cdot -.03}} \\
 &= \frac{-.03}{.068666} \\
 &= -0.49
 \end{aligned}$$

APPENDIX L-4

COMPUTATION FOR FINDING THE T VALUE OF ACHIEVEMENT
OF RESPONDENTS OF THE BSIE CURRICULUM

$$t_c = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(N_1 - 1) S_1^2 + (N_2 - 1) S_2^2}{N_1 + N_2 - 2} \right] \left[\frac{(N_1 + N_2)}{N_1 N_2} \right]}}$$

$$= \frac{1.75 - 1.82}{\sqrt{\left[\frac{5 (.0110230) + 3 (.0314867)}{6 + 6 - 2} \right] \left[\frac{6 + 6}{6(6)} \right]}}$$

$$= \frac{-0.09}{\sqrt{\left[\frac{.055115 + .1574335}{10} \right] \left[\frac{12}{16} \right]}}$$

$$= \frac{-0.09}{\sqrt{\left[\frac{.2125485}{10} \right] (.333333)}}$$

$$= \frac{-0.09}{.0841721}$$

$$= -1.07$$

APPENDIX L-5

COMPUTATION FOR FINDING THE T VALUE OF ACHIEVEMENT
OF RESPONDENTS OF THE BSEE CURRICULUM

$$\begin{aligned}
 t_c &= \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(N_1 - 1) s_1^2 + (N_2 - 1) s_2^2}{N_1 + N_2 - 2} \right] \left[\frac{N_2 + N_1}{N_1 N_2} \right]}} \\
 &= \frac{2.32 - 2.28}{\sqrt{\left[\frac{2 (.0315583) + 2 (2.0226583)}{3 + 3 - 2} \right] \left[\frac{3 + 3}{3(3)} \right]}} \\
 &= \frac{.04}{\sqrt{\frac{1.0631166 + .0453166}{4} \left(\frac{6}{9} \right)}} \\
 &= \frac{.04}{\sqrt{.0180721}} \\
 &= \frac{.04}{.1344328} \\
 &= .30
 \end{aligned}$$

APPENDIX L-6

COMPUTATION FOR FINDING THE T VALUE OF ACHIEVEMENT
OF RESPONDENTS OF THE BSCE CURRICULUM

$$\begin{aligned}
 t_c &= \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(N_1 - 1) s_1^2 + (N_2 - 1) s_2^2}{N_1 + N_2 - 2} \right] \left[\frac{N_2 + N_1}{N_1 N_2} \right]}} \\
 &= \frac{-}{\sqrt{\left[\frac{3(.0955417) + 3(.386396)}{4 + 4 - 2} \right] \left[\frac{4 + 4}{4(4)} \right]}} \\
 &= \frac{-.06}{\sqrt{\frac{.4205436}{6} \quad (.5)}} \\
 &= \frac{-.06}{\sqrt{.0670906 \quad (.5)}} \\
 &= \frac{-.06}{.18315377} \\
 &= -.33
 \end{aligned}$$

APPENDIX L-7

COMPUTATION FOR FINDING THE OVERALL T VALUE OF
RESPONDENTS FROM GHS AND VHS

$$\begin{aligned}
 t_c &= \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(N_1 - 1) s_1^2 + (N_2 - 1) s_2^2}{N_1 + N_2 - 2} \right] \left[\frac{N_2 + N_1}{N_1 N_2} \right]}} \\
 &= \frac{2.17 - 2.22}{\sqrt{\left[\frac{5(.0666443) + 5(.044352)}{10} \right] \left[\frac{6 + 6}{6(6)} \right]}} \\
 &= \frac{-.05}{\sqrt{\left[\frac{.3332215 + .22176}{10} \right] \left[\frac{12}{36} \right]}} \\
 &= \frac{-.05}{\sqrt{.0554981 (.333333)}} \\
 &= \frac{-.05}{.1360123} \\
 &= -0.37
 \end{aligned}$$

CURRICULUM VITAE

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CIVIL SERVICE ELIGIBILITY

Presidential Decree 907, April 7, 1976

LIST OF FIGURES AND TABLES
(Cont'd.)

Tables

Page

9. Difference Between the Scholastic
Achievement Level of Students
Graduated from the GHS and
the VHS 59