

Comparative study of physiological variables between M.P.E.S and Economics students of Kashmir University Srinagar

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Abstract

The study in hand was to compare the physiological variables between M.P.E.S students and Economic student of Kashmir University. For this purpose 60 students from both the departments from Kashmir University were selected randomly. Blood pressure was selected as a variable for the study and was measured in mmHg. T test was used as a statistical tool to know the significance level between the two groups. The results of the study indicate that, there were no significant differences noticed on blood pressure (systolic and diastolic) between M.P.E.S and Economic students of Kashmir University.

KEYWORDS:-Blood Pressure University level students

INTRODUCTION:- The human body is a complex machine. The sophisticated mechanism of our body has attracted scientists to probe into its complex nature. With the advancement of technology, numerous sophisticate instruments have been developed to enable scientist to gain further insight into the functioning of the human body. In spite of extensive inventions and discoveries, still there exists tremendous demand on scientists to obtain appropriate answers to certain queries about the mechanism of the human body. It therefore becomes apparent to understand the relevant changes that occurs during rest or when the body is exposed to different intensities of physical activity.

Physiology is a science that elucidates how human body functions, reacts, adjusts and adapts when exposed to varied degree of physical activity or training. The physiological parameters seems to play a very important role in the modern competitive sports in production of more excellent performance, because competitions are organized more frequently than ever before in different sports of the word.

METHODOLOGY:-the study in hand was to compare the physiological variable between M.P.E.S students and economics students at university level. For this purpose 60 students were selected randomly from university of Kashmir. 30 subjects were selected from department of physical education and 30 from department of economics. The age of the subjects ranging between 18 to 28 years. Blood pressure was chosen as a variable for the study and was measured in mmHg by sphygmomanometer.

FINDINGS:-

Table 1

Showing Comparison between M.P.E.S and Economics students of Kashmir university in Systolic Blood Pressure

Group	Mean	S.D.	T.T.	D.F.
M.P.E.S	117.00	6.513	2.000	58

Economics	115.333	6.814		
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Table 1 show that there is least significant difference between means of M.P.E.S and Economics students in systolic blood pressure. Where mean value of M.P.E.S students are 117.00 and that of Economics students mean value is 115.333. The data was again analyzed by applying t-test. But before applying t-test, standard deviation was calculated. Standard deviation of M.P.E.S is 6.513 and that of Economics students is 6.814. It was found that there was significant difference in systolic blood pressure of M.P.E.S and Economics students because calculated 't' = 0.750, which is less than tabulated 't' = 2.000 at 0.05 level of significance.

Graph 1
A Graph Showing Difference between Means of M.P.E.S and Economics Students of Kashmir in Systolic Blood Pressure

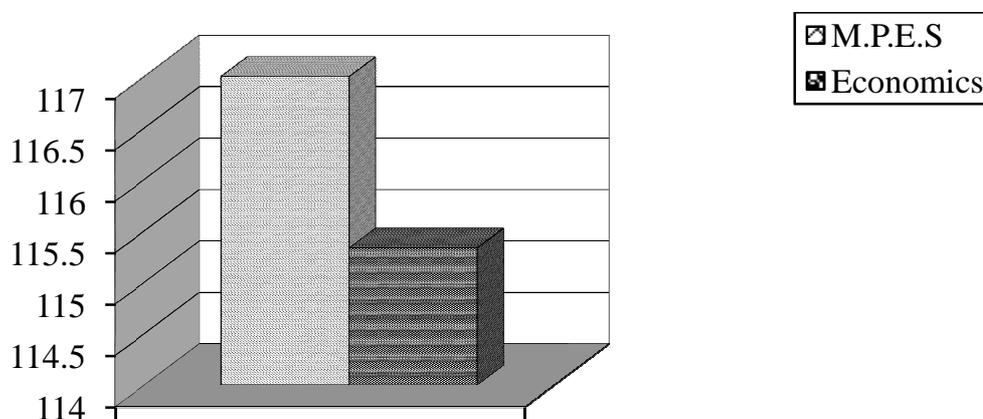


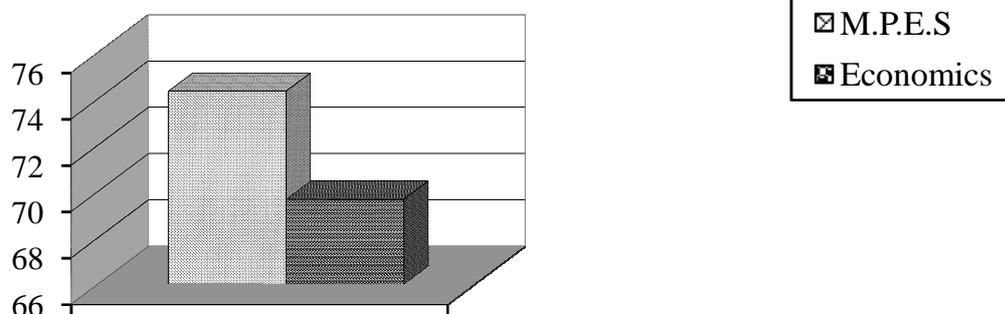
Table 2

Showing Comparison between M.P.E.S and Economics Students of Kashmir university in Diastolic Blood Pressure

Group	Mean	S.D.	T.T.	D.F.
M.P.E.S.	74.333	7.279	2.000	58
Economics	69.667	7.649		

Table -2 shows that there is least significant difference between means of M.P.E.S and Economics students of Diastolic Blood Pressure. Where mean value of M.P.E.S Students is 74.333 and that of Economics Students mean value is 69.667. The data was again analyzed by applying 't' test. But before applying 't' test S.D. was calculated. S. D. of M.P.E.S is 7.279 and that of Economic students is 7.649. It was found that there is no significant difference in Diastolic blood pressure of M.P.E.S and Economic students because calculated 't' = 1.875 which is less than Tabulated 't' = 2.000 at 0.05 level of significance.

Graph 2
A Graph Showing Difference between Means of M.P.E.S and Economics Students of Kashmir university Diastolic Blood Pressure



DISCUSSION OF FINDINGS:-

The researcher had undertaken study titled as “comparative study of physiological variables among M.P.E.S and Economics students” the variables chosen for the study was blood pressure both (systolic and diastolic pressure) for investigation purpose. On the basis of statistical analysis the following inference were derived.

There were no significant differences noticed on blood pressure (systolic and diastolic) between M.P.E.S and Economic students of Kashmir University.

It may be because both the groups are active for securing their future and are putting up in the same environmental conditions due to this blood pressure are almost same probably due to similar respiratory and cardiovascular requirements of both the groups. The resulted of this study are supported by coyle, 1999; Arabac and Cankaya, 2008; Saad, 2012 and Devaraju and Needhirajas, 2012.

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