FEBRUARY 2018

BACHELOR IN PROSTHETICS AND ORTHOTICS

THIRD YEAR

PAPER VI – RESEARCH METHODOLOGY / PROJECT DEVELOPMENT

Q.P. Code: 802436

Time: Three Hours		Maximum : 100 Marks
	Answer All questions	

I. Elaborate on:

- 1. What is hypothesis? Mention its types. How do you test the hypothesis?
- 2. Elaborate on procedures involved in limb orthotics project development.
- 3. Elaborate case study method and its uses.

II. Write notes on:

- 1. What are the elements of Informed Consent?
- 2. Define reliability. What is Intra rater and Inter rater reliability?
- 3. What is the scope of statistics in limb Prosthetics research? Provide suitable examples.
- 4. Write Characteristics of normal distribution.
- 5. Define Validity. Writes its types. Provide an example of a situation from clinical Orthotics where construct validity methods might be applied.
- 6. How is the Null Hypothesis stated? Explain with suitable examples from limb prosthetics.
- 7. What are the points to be considered while identifying and selecting a problem for research?
- 8. How do you compute mean for ungrouped data?

III. Short answers on:

- 1. What do you understand by level of significance?
- 2. Explain Snowball sampling. Give an example.
- 3. Which diagram will help in calculating median and quartiles?
- 4. How will you interpret correlation coefficient?
- 5. How will you choose class interval?
- 6. How will you draw Frequency Curve?
- 7. What is Skewness? Define Kurtosis.
- 8. What is coefficient of Variation?
- 9. Define Bias. Mention various biases during a research work.
- 10. What are the contents of a research proposal?

 $(10 \times 3 = 30)$

 $(8 \times 5 = 40)$

 $(3 \times 10 = 30)$