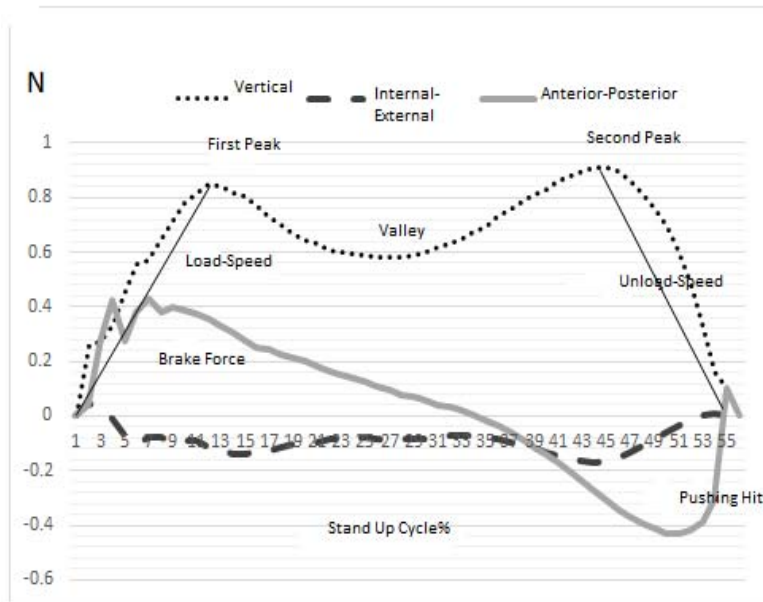


**Figure 1)** The place of marker junction to the body. A total of 22 markers reflecting infrared light with a diameter of 14 mm were connected on the upper anterior spine iliac, the posterior superior spine iliac, internal and external condylar on either the right or left sides, heel, top of the first and fifth metatarsus, and acromioclavicular joint in both right and left sides, sternum, head and seventh cervical vertebrae



**Figure 2)** Ground reaction forces

**Table 1)** Mean of ground reaction forces during gait in below knee amputees on one side

Variables	Mean	Significance Level
<b>Braking Hit (N/s)</b>		
Sound Leg	20.63±4.28	0.22
Prosthetic Leg	16.55±9.25	
<b>Driving Hit (N/s)</b>		
Sound Leg	24.90±5.75	0.01
Prosthetic Leg	19.08±2.23	
<b>Internal-External Hit (N/s)</b>		
Sound Leg	29.01±4.16	0.81
Prosthetic Leg	28.63±2.77	
<b>Vertical Hit (N/s)</b>		
Sound Leg	528.96±68.09	0.05
Prosthetic Leg	465.71±68.17	
<b>Total Hit (N/s)</b>		
Sound Leg	676.80±243.10	0.09
Prosthetic Leg	531.59±77.20	
<b>Peak of Braking Force (N)</b>		
Sound Leg	104.55±3.24	0.12
Prosthetic Leg	77.50±38.67	
<b>Peak of Driving Force (N)</b>		
Sound Leg	123.13±38.96	0.08
Prosthetic Leg	96.40±28.82	
<b>Peak of Internal-External Force (N)</b>		
Sound Leg	63.57±10.23	0.01
Prosthetic Leg	54.11±4.27	
<b>First Peak of Vertical Force (N)</b>		
Sound Leg	821.85±135.16	0.42
Prosthetic Leg	774.15±121.38	
<b>Valley of Vertical Force (N)</b>		
Sound Leg	632.78±80.16	0.78
Prosthetic Leg	624.46±50.26	
<b>Second Peak of Vertical Force (N)</b>		
Sound Leg	745.88±91.50	0.53
Prosthetic Leg	718.67±98.08	
<b>Reaching Time to Peak (s)</b>		
Sound Leg	19.60±5.00	0.05
Prosthetic Leg	24.50±5.80	
<b>Speed of Loading (N/s)</b>		
Sound Leg	42.30±16.30	0.03
Prosthetic Leg	29.50±7.80	
<b>Unloading Speed</b>		
Sound Leg	33.20±10.70	0.88
Prosthetic Leg	32.10±6.50	