

# Unit 3 - Week 1

## Course outline

How does an NPTEL online course work?

### Week 0

### Week 1

● Lecture 1 : Jaipur Foot - A classic innovation by Prof. B. K. Chakravarthy Part 1

○ Lecture 2 : Jaipur Foot - A classic innovation by Prof. B. K. Chakravarthy Part 2

● Lecture 3 : User Centred Helmet Design by Prof. B. K. Chakravarthy Part 1

● Lecture 4 : User Centred Helmet Design by Prof. B. K. Chakravarthy Part 2

○ Weekly Feedback

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○ Quiz : Assignment 1

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### Week 2

### Week 3

### Week 4

### Week 5

### Week 6

### Week 7

### Week 8

# Assignment 1

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2020-03-04, 23:59 IST.**

1) What are the key considerations for the development of the Jaipur foot? 1 point

- The physique of a person
- Extremely poor economic condition
- Not well educated
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
All of the above

2) What is the most valuable quality of the Jaipur leg? 1 point

- It is custom made for each individual
- It looks very nice
- It is given away for free
- It is not made in large numbers

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
It is custom made for each individual

3) What are the aspects of the Jaipur foot which make it the best fit for the Indian user? 1 point

- Because the materials used are suited for all environments
- Because the look is like a bare foot
- Because it provides more flexibility of sitting postures to the users
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
All of the above

4) How is the Jaipur foot attached to the shank? 1 point

- It is screwed together
- It is glued together
- Velcro is used together
- It is fastened by strings together

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
It is screwed together

5) What is the shank of the Jaipur foot made of? 1 point

- HDPE (high-density polyethylene) irrigation pipes
- Polycarbonate pipes
- PVC (Polyvinyl Chloride) electrical duct pipes
- ABS (Acrylonitrile butadiene styrene) Pipes

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
HDPE (high-density polyethylene) irrigation pipes

6) Which part of the helmet saves lives in road accidents? 1 point

- Outer shell
- Thermocol
- PU padding
- Inner shell

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Thermocol

7) As per the ISI standards, what should be avoided in the helmet shell? 1 point

- Rivet heads
- Inside projection
- Rubber pads
- Ventilation slots

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Inside projection

8) In the final design of the collapsible helmet, the main strap connected from? 1 point

- Upper shell
- Bottom shell
- Visor
- Thermocol

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Bottom shell

9) Who is the persona for the design of the Collapsible Helmet? 1 point

- Mothers taking kids to school.
- The middle aged office goers.
- For mountain riders and adventure seekers.
- For professional racers

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
The middle aged office goers.

10) What poses the biggest challenge in the design of the collapsible helmet ? 1 point

- Visor
- Outer shell
- Inner shell
- Thermocol design

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Thermocol design