

Unit 8 - Week 6

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

● Lecture 17 : Systemic Approach to Biomed Innovations by Prof. B. Ravi Part 1

● Lecture 18 : Systemic Approach to Biomed Innovations by Prof. B. Ravi Part 2

● Lecture 19 : Systemic Approach to Biomed Innovations by Prof. B. Ravi Part 3

○ Weekly Feedback

○ Download Videos

○ Quiz : Assignment 6

○ Assignment 6 solutions

Week 7

Week 8

Assignment 6

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

Due on 2020-04-08, 23:59 IST.

1) Which among the following 'valleys of death' in the innovation journey, is the most difficult to cross, according to Prof B Ravi in his lecture Systematic approach to Biomed Innovation? **1 point**

- Ideation (From Ideation to Proof-of-Concept)
 Invention (From Proof-of-Concept to Prototype)
 Innovation (From Prototype to Product)
 Impaction (Product to Market)

No, the answer is incorrect.
Score: 0

Accepted Answers:
Innovation (From Prototype to Product)

2) Which of the following metals is bio friendly in nature as mentioned in the module Systematic approach to Biomed Innovation by Prof. B Ravi? **1 point**

- Chromium
 Titanium
 Stainless steel
 Vanadium

No, the answer is incorrect.
Score: 0

Accepted Answers:
Titanium

3) Which of the following is BETIC at IIT Bombay NOT involved with the process of Medical device Innovation? **1 point**

- Define an unmet need through clinical immersion
 Develop a solution through user feedback and involvement with expertise
 Deliver a properly manufactured and tested prototype
 Deploy it in medical practice through a business entity

No, the answer is incorrect.
Score: 0

Accepted Answers:
Deploy it in medical practice through a business entity

4) Which of the following professionals is not required in the core team in the process of Biomed Innovation? **1 point**

- Designer
 Doctor
 Engineer
 Lawyer

No, the answer is incorrect.
Score: 0

Accepted Answers:
Lawyer

5) In the process of Biomed Innovation, what is the expected role of an Entrepreneur as a stakeholder? **1 point**

- Define
 Develop
 Deliver
 Deploy

No, the answer is incorrect.
Score: 0

Accepted Answers:
Deliver

6) What was so innovative about the Orthopaedic Hybrid Plaster Splint? **1 point**

- Custom fit
 Instant curve of plaster
 Easy to Use
 All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

7) Which of the following innovative medical products detects foot ulcers at an early stage? **1 point**

- Ankle foot Orthosis
 Diabetic foot screening device
 Smart Stethoscope
 X-ray machine

No, the answer is incorrect.
Score: 0

Accepted Answers:
Diabetic foot screening device

8) Which of the following steps does not fall under the Deliver classification in the module Systematic approach to Biomed Innovation by Prof. B Ravi? **1 point**

- Device certification
 Clinical trials
 Functional prototype
 Lab testing

No, the answer is incorrect.
Score: 0

Accepted Answers:
Functional prototype

9) The Indian medical industry has to compete with which of the following foreign situations? **1 point**

- High quality standards of the West
 Foreign government policies
 Large foreign corporations
 Low-cost factor of the East

No, the answer is incorrect.
Score: 0

Accepted Answers:
*High quality standards of the West
Low-cost factor of the East*

10) The name of Hackathon for Medical Devices organised by BETIC is? **1 point**

- NSTSC
 MDH
 MEDHA
 MHRD

No, the answer is incorrect.
Score: 0

Accepted Answers:
MEDHA

11) What is the full form of BETIC? **1 point**

- Biomedical Engineering Technology Incubation centre
 Biomedical Engineering Technical Innovation Centre
 Biomedical Engineering Technology Innovation Centre
 Biomedical Engineering Technical Incubation centre

No, the answer is incorrect.
Score: 0

Accepted Answers:
Biomedical Engineering Technology Incubation centre

12) Which of the following activities is NOT a part of the Medical Device Innovation process? **1 point**

- Clinical Immersion
 Concept & feasibility
 Virtual Prototype
 Pre -approved Human trials

No, the answer is incorrect.
Score: 0

Accepted Answers:
Pre -approved Human trials