

# MIT–Harvard Medical School Healthcare Innovation Bootcamp

*Sample Syllabus and Schedule*



## Overview

The MIT-Harvard Medical School Healthcare Innovation Bootcamp is an immersive, rigorous, team-based action-learning educational program that brings together the best of innovation and entrepreneurship education and practice from MIT and healthcare innovation from Harvard Medical School. You and your globally distributed team of healthcare innovators will come together virtually to build the foundations of a new healthcare venture in 10 weeks. This SAMPLE Syllabus will help you understand the different pedagogical components and time commitments reported by past Bootcampers for successful participation and completion of the MIT–Harvard Medical School Healthcare Innovation Bootcamp.

## Module 0: Onboarding to the NovoEd platform

*Module 0 has different onboarding videos and documents to help you become familiar with NovoEd and the policies, expectations, and weekly prep work for the Bootcamp. You will also receive an email with the DiSC personality assessment during onboarding. It is a tool to help you better understand yourself and improve communication, collaboration, and productivity for yourself and your team.*

Onboarding reading (~ 30 min)	Pre-Bootcamp Work (~ 2.5 hours)
Activity	Activity
Welcome Bootcamp Schedule Syllabus Software Requirements & Accessibility	To dos (★ due before Bootcamp begins) ★ Onboarding activities ★ Pre-work

## Module 1: Entrepreneurial Creativity

*This module will be focused on activities and techniques to discover and validate problems worth solving. You will also have sessions on effective collaboration as you start working with your team. By reviewing the content and lectures from this week, and completing the team deliverables, you will be better prepared to work with your team and have a tool set to discover interesting problems.*

**Healthcare content:** *You will gain a deeper understanding on how to approach identifying needs in a healthcare setting. How do you conduct observations, how to identify your stakeholders and what you need to learn about current the standard of care.*

Week 1 (~ 14 hours)	Week 2 (~ 14 hours)
<p>Activity</p> <p><b>**All live sessions occur from 10 -11:30AM ET unless otherwise specified. Subject to change.**</b></p> <p>Prepare: Review MOOC videos Live sessions (Zoom) M/Tu/W/Th Coaching Session Team Meetings</p> <p>To dos (★ due this week) ★ Module 0 Individual Deliverable ★ Onboarding Feedback Survey</p>	<p>Activity</p> <p>Prepare: Review MOOC videos Live sessions (Zoom) Tu/W/Th Coaching Session Team Meetings</p> <p>To dos (★ due this week) ★ Module 1 Deliverables</p>

## Module 2: Customer Discovery

*Your end-users are at the core of your venture and you must understand them, and their relationship to the problem you are solving, profoundly. Learn to identify them and further understand their unmet needs - the opportunity to create value for them and your venture.*

**Healthcare content:** *In healthcare, your end-user is often not the paying customer. You will learn from a seasoned healthcare entrepreneur how to navigate this complex landscape and learn how to build a business for both the end-user and paying customer. Learn about trends in healthcare geared towards serving the customer better.*

Week 3 (~ 12 hours)	Week 4 (~ 14.5 hours)
<p>Activity</p> <p>Prepare: Review MOOC videos Live sessions: (Zoom) Tu/W/Th Team Meetings</p>	<p>Activity</p> <p>Prepare: Review MOOC videos Live sessions (Zoom) Tu/W/Th Coaching Session Team Meetings</p> <p>To dos (★ due this week) ★ Module 2 Team Deliverable</p>

## Module 3: Problem Definition

*This week you and your team will strive to more precisely define the problem you are solving. You will learn and apply methods and techniques to specify and better understand the problem, end user, and the value your solution will need to deliver in order to be successful.*

**Healthcare content:** *Gain the perspective of a healthcare entrepreneur on how they iterated on the problem area and better identified their value proposition through the process.*

### Week 5 (~ 13 hours)

#### Activity

Prepare: Review MOOC videos  
 Live sessions: (Zoom) Tu/W/Th  
 Coaching Session  
 Team Meetings

To dos (★ due this week)  
 ★ Module 3 Team Deliverables

## Module 4: Problem Solving

*After five weeks, we get to building solutions! Superior solutions are built on the foundation of a well-specified problem and opportunity, deeply understanding your end user, and a clear value proposition. Learn to develop a solution that delivers value AND your end user will use.*

**Healthcare content:** *Understanding IP (intellectual property) is an important part of being a healthcare entrepreneur. We will share with you the basics from a US and global perspective so you can understand what to be aware of in building your venture.*

### Week 6 (~ 11 hours)

#### Activity

Prepare: Review MOOC videos  
 Live sessions: (Zoom) Tu/W/Th  
 Team Meetings

### Week 7 (~ 15 hours)

#### Activity

Prepare: Review MOOC videos  
 Live sessions (Zoom) Tu/W/Th  
 Elevator Pitch Practice  
 Coaching Session  
 Team Meetings  
 To dos (★ due this week)  
 ★ Module 4 Team Deliverable



## Module 5: Venture Design

*This week you will focus on Venture Design: How to identify drivers of value and design a venture for enduring sustainability and value, for your end user, customer, you, and your venture.*

**Healthcare content:** *Learn valuable lessons from an investor and entrepreneur perspective on how to deliver your message to the right audience. Communicating your idea is critical to reaching sustainability.*

### Week 8 (~ 15 hours)

#### Activity

Prepare: Review MOOC videos  
Live sessions: (Zoom) Tu/W/Th  
Coaching Session  
Team Meetings

To dos (★ due this week)

★ Module 5 Team Deliverable

## Module 6: Pitch

*What story are you going to tell and how will you tell it? What combination of inspiration, data, facts, and visuals? Leading up to your pitch, think about what messages you want to communicate and in which manner.*

### Week 9 (~ 11 hours)

#### Activity

Prepare: Review MOOC videos  
Mock Presentation practice  
Coaching Session  
Team Meetings

To dos (★ due this week)

★ Final Presentations

### Week 10 (~ 5 hours)

#### Activity

Prepare: Final Pitch  
Live sessions (Zoom)  
Coaching Session

To dos (★ due this week)

★ Exit Survey

## Appendices A, B & C

Average weekly time commitment reported by past Bootcampers			
Week	Average time commitment	Week	Average time commitment
Pre-Bootcamp	3 hours	6	13 hours
1	15 hours	7	16 hours
2	15 hours	8	16 hours
3	14 hours	9	11 hours
4	16 hours	10	5 hours
5	14 hours	<b>Total</b>	<b>138 hours</b>

Component	Description	Avg weekly time commitment	Live or recorded/ team/on your own
<b>Individual study</b>	MITx MOOC modules and readings	1 hour	On your own, before each Module begins
<b>Innovation workshops</b>	Interactive workshops with MIT Bootcamps lecturers	4 - 5.5 hours	Live, fixed schedule (usually Tu/W/Th 10-11:30am ET). Attendance not taken. Recordings available within 24 hours for those unable to attend live
<b>Lectures</b>	Interactive lectures from MIT & Harvard faculty and practitioners		
<b>Team meetings</b>	Meet with your team virtually	3 - 5 hours	Live, you schedule with your team. Teams formed based on similar availability you submit. Attendance important
<b>Coaching sessions</b>	Team coaching from MIT Bootcamps coaches. *Per Module + pitch sessions	1 hour*	Live, timings based on availability you submit before Bootcamp begins. Attendance important
<b>Deliverables</b>	Exercises for your team to complete each module, related to your venture	1 - 4 hours	On your own, based on team schedule
<b>Total</b>		<b>11 - 16 hours</b>	

## Bootcamp Completion Criteria

We will offer a digital Certificate of Completion or other acknowledgment (a "Certificate") for Bootcampers who, in our judgment, have satisfactorily demonstrated participation and completion of the learning program outlined above and/or mastery of the learning program material. We expect learners to successfully work with their team (meet the expected contribution to the team throughout the program and to participate in the final pitch preparation and presentation. Certificates will be issued by and under the name of MIT Bootcamps. The decision whether a Certificate will be awarded to a given student will be solely within our discretion.

In addition to participating in the final presentation, we will use the following to help determine participation and therefore whether a Certificate is awarded. As part of each Team Deliverable, including the Final Presentation, your team will be asked to provide what each member contributed to the deliverable, which team members have "unexcused absences" from team meetings, and which team members did not contribute to the team's progress when absent from meetings. Coaches will also report which team members have "unexcused absences" from coaching sessions. If you know you will miss a coaching session, notify your coach in advance, letting them know how you are contributing to the team that Module.