



## Activity Report

**Title of Event:** Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialisation of Lab Technologies & Tech-Transfer"

**Date of Session:** 23 February 2022 (Wednesday)

**Time:** 01:00 PM - 02:00 P.M.

**Teacher Coordinator:** Mr. Jigmet Wangdus

**Speaker(s):** Dr. Ashutosh Pastor, Incubation Manager – FITT, IIT Delhi

**Poster/Banner/Brochure of the event:**

**An IQAC and IIC-SSCBS Initiative**

**Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialisation of Lab Technologies & Tech-Transfer"**

**Date:** Wednesday, Feb 23<sup>rd</sup> 2022  
**Time:** 01:00 PM to 02:00 PM

**Join us:** [meet.google.com/ftx-dspv-etu](https://meet.google.com/ftx-dspv-etu)

Prof. Poonam Verma  
Principal SSCBS

Dr. Anamika Gupta  
President IIC

Dr. Mona Verma  
Convener, Innovation  
Activity Coordinator

Mr. Jigmet Wangdus  
IIC Member  
(Faculty Coordinator)

## **Activity Summary**

### **BRIEF BIO OF SPEAKER**

**Speaker Name:** Dr. Ashutosh Pastor

Dr. Ashutosh Pastor is managing Startup Incubation at the Foundation for Innovation and Technology Transfer at Indian Institute of Technology Delhi. He is supporting implementation of various funding programs for innovators and entrepreneurs in the Biotechnology domain like BIRAC BIG, SEED, LEAP, Pfizer-IIT Delhi Innovation and IP program, and many other government and CSR funded programs. He has completed his Ph.D. at IIT Delhi and has been associated with FITT since 2015 when the Biotechnology Business Incubation Facility was started at IIT Delhi. He is closely working with various Biotechnology startups and is always interested to interact with innovators and scientists at various institutes across the country.

### **OBJECTIVE OF THE EVENT**

The session focused on the innovation development and understanding technology readiness level, manufacturing readiness level and investment readiness level.

#### **Topics covered by Dr. Ashutosh Pastor in the session:**

- Innovation
- Product Development
- Product Management Lifecycle
- Readiness level
- Technology Readiness Level
- Manufacturing Readiness Level
- Investment Readiness Level

### **KEY OUTCOMES OF THE EVENT**

The session gives insights about product management lifecycle which will help students and entrepreneur to understand the different stages on product development. The session also discusses the challenging TRL levels of Product challenges, Business challenges, Innovation challenges and process challenges.

### **PHOTOGRAPHS**



Jigmet Wangdus is presenting

Stage	TRL Level	MRL Level	Considerations
Material Solution Analysis (MDO)	1-3	1-3	Manufacturing Concepts Identified, Basic Research, Advanced Technology Development
Technology Development (Component)	4	4	Mfg. Feasibility Determined, Mfg. Processes Identified, Key Processes Identified, Productivity Assessments Initiated
Technology Development (System)	5	5	Mfg. Processes Emerging, Productivity Assessments On-going, Mfg. Cost Drivers Identified
Engineering & Manufacturing Development (Post CDR Assessment)	6	6	Mfg. Processes Dem'd in a Relevant Environment, Cost Drivers Analyzed, Long Lead Items Identified, Equipment in a Relevant Environment
Engineering & Manufacturing Development (FRP)	7	7	Mfg. Processes in Development, Productivity Improvement Underway, Trade Studies, Supply Chain Management in Place
Production & Deployment (FRP)	8	8	Process Maturity Demonstrated, All Materials Ready for LRIP, Mfg. Processes Proven
Production & Deployment (FRP / Lean)	9	9	Mfg. Processes Operating at Target Quality, Cost and Performance, Supply Chain Established and Meeting Lead Times
Production & Deployment (FRP / Lean)	10	10	Lean/Six Sigma Production in Place, Meeting or Exceeding Cost, Schedule and Performance Goals

1:47 PM | Workshop:Expert talk on "Process of Innovati...

Vansh Jain, Sriyansh Goel, Jigmet Wangdus, PRIYANSH, GOURAV, Abhishek ranjan, Jigmet Wangdus, You

Jigmet Wangdus is presenting

Investment Readiness Level (IRL)	Description	Investor Type
IRL 9	Identify and Validate Metrics that Matter	Venture Capital
IRL 8	Validate Value Delivery (Left side of Canvas)	Venture Capital
IRL 7	Prototype High-Fidelity Min. Viable Product	Angel Investors
IRL 6	Validate Revenue Model (Right Side of Canvas)	Angel Investors
IRL 5	Validate Product / Market Fit	Angel Investors
IRL 4	Prototype Low-Fidelity Min. Viable Product	Friends and Family
IRL 3	Problem / Solution Validation	Friends and Family
IRL 2	Market Size/Competitive Analysis	Friends and Family
IRL 1	Complete first-pass business model canvas	No investment

2:01 PM | Workshop:Expert talk on "Process of Innovati...

In-call messages

Let everyone send messages:

Messages can only be seen by people in the call and are deleted when the call ends.

Jigmet Wangdus 1:16 PM  
<https://meet.google.com/tx-dspv-etu?authuser=1>  
[https://www.youtube.com/watch?v=7njkkhK\\_wj](https://www.youtube.com/watch?v=7njkkhK_wj)

You 1:18 PM  
is it audible now?

Sriyansh Goel 1:18 PM  
yes

You 2:00 PM  
<https://forms.gle/Z1kd2BCZ85Ab1Sa6>  
dear student submit your attendance on the above link

Send a message to everyone

Vansh Jain, Sriyansh Goel, Jigmet Wangdus, PRIYANSH, GOURAV, You



**Attendance: 55+ (Students + Faculties)**

**Student Participants: (Attendance +Feedback)**

S.No	Full Name	Roll No	College	Course	Rate [Comprehensiveness of the Topics Covered]	Rate [Preparedness of the Trainer]	Rate [Queries solved by the Trainer]	Rate [Meeting your expectations]	Rate: [Overall Organisation of the workshop]	Will you be interested in attending similar talks/workshops/conference in the future?
1	Ananyaa Mangla	20021	SSCBS	BMS	3	3	2	2	3	Yes
2	Ashish Jangra	20040	SSCBS	BMS	1	1	1	1	1	Yes
3	Gaurang M lakhani	20071	SSCBS	BMS	5	5	5	5	5	Yes

4	Ishpreet Kaur Saini	20087	SSCBS	BMS	4	3	4	3	4	Yes
5	Kripa	20108	SSCBS	BMS	4	5	4	5	5	Yes
6	Kunal Kataria Abhishek	20111	SSCBS	BMS	5	5	5	5	5	Yes
7	Ranjan Aditya Singh	20307	SSCBS	BFIA	2	3	3	3	3	Yes
8	Ramola	20309	SSCBS	BFIA	4	4	5	5	4	No
9	Gourav Jayant Sumit	20338	SSCBS	BFIA	2	2	1	2	2	Yes
10	Toppo Sarthak krishna	20349	SSCBS	BFIA	2	2	2	2	2	Maybe
11	sharma Sukhvinder	20386	SSCBS	BFIA	5	5	5	5	5	Yes
12	Singh	20402	SSCBS	BFIA	2	1	1	1	1	Maybe
13	Vansh Jain	20408	SSCBS	BFIA	3	3	1	2	3	Maybe
14	Yashika Goyal	20420	SSCBS	BFIA	1	1	1	2	1	Yes
15	Priyansh	20428	SSCBS	BFIA	4	4	4	4	4	Maybe
16	Priyansh	20428	SSCBS	BFIA	5	5	5	5	5	Maybe
17	Emama Islam Fernando Sankhil	21067	SSCBS	BMS	1	1	1	1	1	Yes
18	Lamkang	21070	SSCBS	BMS	2	2	2	2	2	Maybe
19	Gaorav	21071	SSCBS	BMS	5	5	5	5	5	Yes
20	Garv Jain	21072	SSCBS	BMS	4	4	4	4	4	Yes
21	Gyandeepika Harsha Saman	21075	SSCBS	BMS	4	4	4	4	4	Yes
22	Bandara Dias	21079	SSCBS	BMS	5	5	5	5	5	Maybe
23	Harshil Rana Harshit	21080	SSCBS	BMS	5	5	5	5	5	Yes
24	Agarwal	21081	SSCBS	BMS	3	3	3	3	3	Maybe
25	Harshita Gupta	21082	SSCBS	BMS	5	5	5	5	5	Maybe
26	Himani Ibrahim	21085	SSCBS	BMS	4	4	4	4	4	Maybe
27	Ghaffar	21088	SSCBS	BMS	5	5	5	5	5	Maybe
28	Ishan Goel	21091	SSCBS	BMS	5	5	5	5	5	No
29	Ishika	21092	SSCBS	BMS	1	2	1	1	2	Yes
30	Kashish Vohra	21098	SSCBS	BMS	5	5	5	5	5	Yes
31	Kavya Deep Kodonshe	21099	SSCBS	BMS	5	4	4	4	4	Maybe
32	Hongsha	21104	SSCBS	BMS	2	2	2	2	2	Maybe
33	Komal Kataria	21105	SSCBS	BMS	3	3	3	3	3	Maybe
34	Kopal Agrawal	21106	SSCBS	BMS	4	5	5	4	5	Yes
35	Kumar Keshav Lakshay	21113	SSCBS	BMS	3	3	3	3	3	Yes
36	chhabra Lavanya	21114	SSCBS	BMS	3	3	3	3	3	Yes
37	Kumar Lovneesh	21115	SSCBS	BMS	5	5	4	4	4	Yes
38	Kumar	21117	SSCBS	BMS	3	3	3	3	3	Yes
39	Luv Sehgal Maharshi	21118	SSCBS	BMS	3	3	3	3	3	Maybe
40	Jaiswal Malvika	21120	SSCBS	BMS	5	4	5	4	4	Yes
41	Sharma	21124	SSCBS	BMS	5	5	5	5	5	Maybe
42	Manan Jain SRIYANSH	21125	SSCBS	BMS	1	1	1	1	1	Yes
43	GOEL	21231	SSCBS	BMS	4	1	1	4	4	Yes
44	Arpita Verma Devhans	21264	SSCBS	BMS	1	1	1	1	1	Yes
45	Gurjar	21265	SSCBS	BMS	2	2	2	2	2	Maybe
46	Mugdha Raj	21270	SSCBS	BMS	5	3	2	2	2	Yes
47	Khushi Verma	20105	SSCBS	BMS	4	4	3	3	2	Maybe
48	Laksh Meena	20113	SSCBS	BMS	3	4	3	3	4	Yes
49	Dev Shukla	20111	SSCBS	BMS	4	4	5	4	4	Maybe
50	Dhruv	20116	SSCBS	BMS	3	4	4	4	4	Maybe

**Faculty/Non-Teaching/Others Participants:**

1. Dr. Anamika Gupta
2. Dr. Mona Verma
3. Dr. Pratibha Maurya
4. Mr. Rishi Rajan Sahay
5. Mr. Jigmet Wangdus

**Link of recording (Youtube): [https://youtu.be/Ibr6dC9v\\_2w](https://youtu.be/Ibr6dC9v_2w)**