

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

An Autonomous Institute



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NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: www.diet.edu.in, 9963993229 E-mail: principal@diet.edu.in

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

The Research and Development Cell of Dadi Institute of Engineering & Technology- Autonomous in association with Institute Innovation Council (IIC) conducted the Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer".

Date: 28-12-2024. **Venue:** LH-24, 3rd Floor, DIET

Organized by: Institute Innovation Council (IIC), Dadi Institute of Engineering & Technology- Autonomous

Speaker: Dr. S Ramana Kumar Joga, Assoc. Dean R&D, DIET, Anakapalle.

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Research & Development Cell
In association with
Institute Innovation Council (IIC)
ORGANIZING

Expert talk on Process of Innovation Development, Technology Readiness Level (TRL)

On 28-12-2024 From 10 AM onwards
Venue: LH-24 3rd Floor (DIET)
IIC Coordinator: Dr. B. Anjanee Kumar

Dr. S Ramana Kumar Joga
R&D Coordinator

Dr. R. Vaikunta Rao
Principal, DIET

Sri Dadi Ratnakar
Chairman, DIET

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

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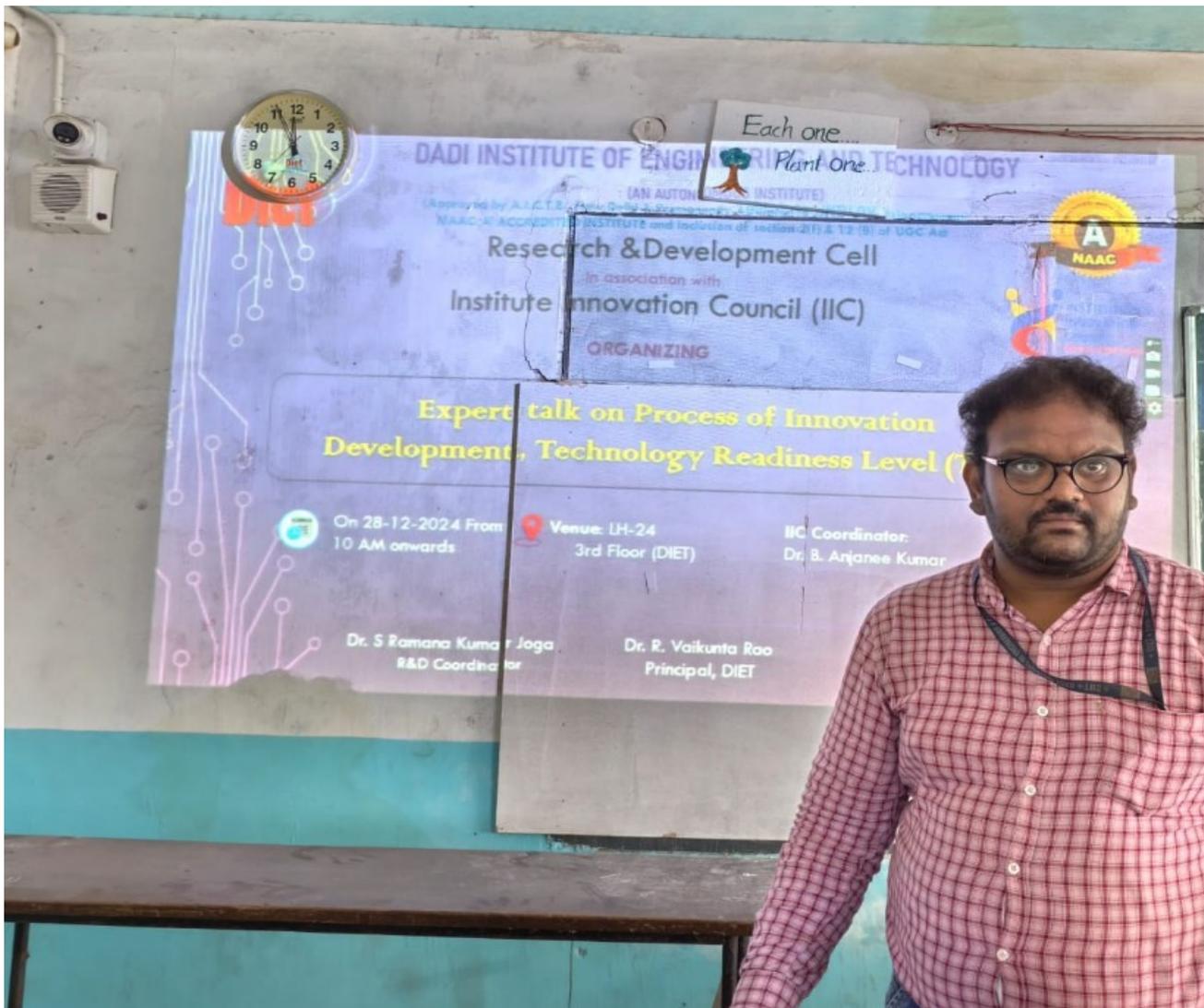
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Introduction:

The expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" and "Commercialization of Lab Technologies & Tech-Transfer" was an insightful session aimed at educating researchers, academicians, and industry professionals on the various stages of innovation, technological maturity, and pathways for commercializing laboratory research. The session was conducted by [Speaker Name], who provided a comprehensive understanding of the innovation lifecycle and the practical challenges in technology transfer.



**Expert Talk by Dr. S Ramana Kumar Joga, Assoc. Dean R&D, DIET,
Anakapalle**

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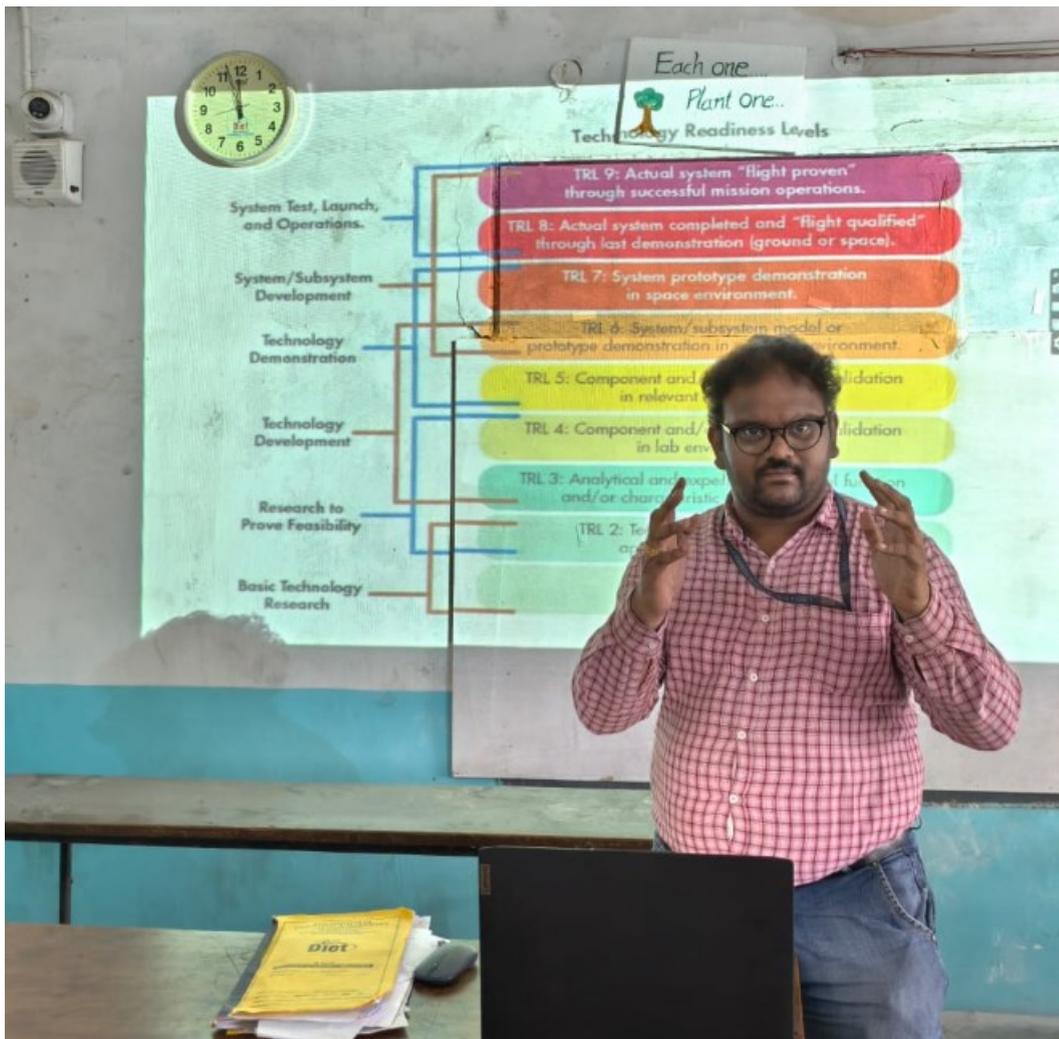
Session 1: Process of Innovation Development & Technology Readiness Level (TRL)

The session commenced with an introduction to the **innovation development process**, which includes:

1. **Idea Generation** – Identifying gaps and opportunities in technology and market needs.
2. **Concept Development** – Refining ideas into feasible prototypes or models.
3. **Proof of Concept (PoC)** – Conducting feasibility studies and preliminary experiments.
4. **Prototype Development** – Creating working models to demonstrate technology functionality.
5. **Testing & Validation** – Assessing the prototype's performance and making necessary modifications.
6. **Pilot Production** – Small-scale manufacturing to validate scalability and efficiency.
7. **Commercial Deployment** – Launching the technology into the market.

The speaker then elaborated on the **Technology Readiness Level (TRL) framework**, which categorizes technological development into nine stages:

- **TRL 1-3:** Basic principles observed and proof of concept established.
- **TRL 4-6:** Prototype development and validation in relevant environments.
- **TRL 7-9:** System prototype demonstration, final product development, and commercial deployment.



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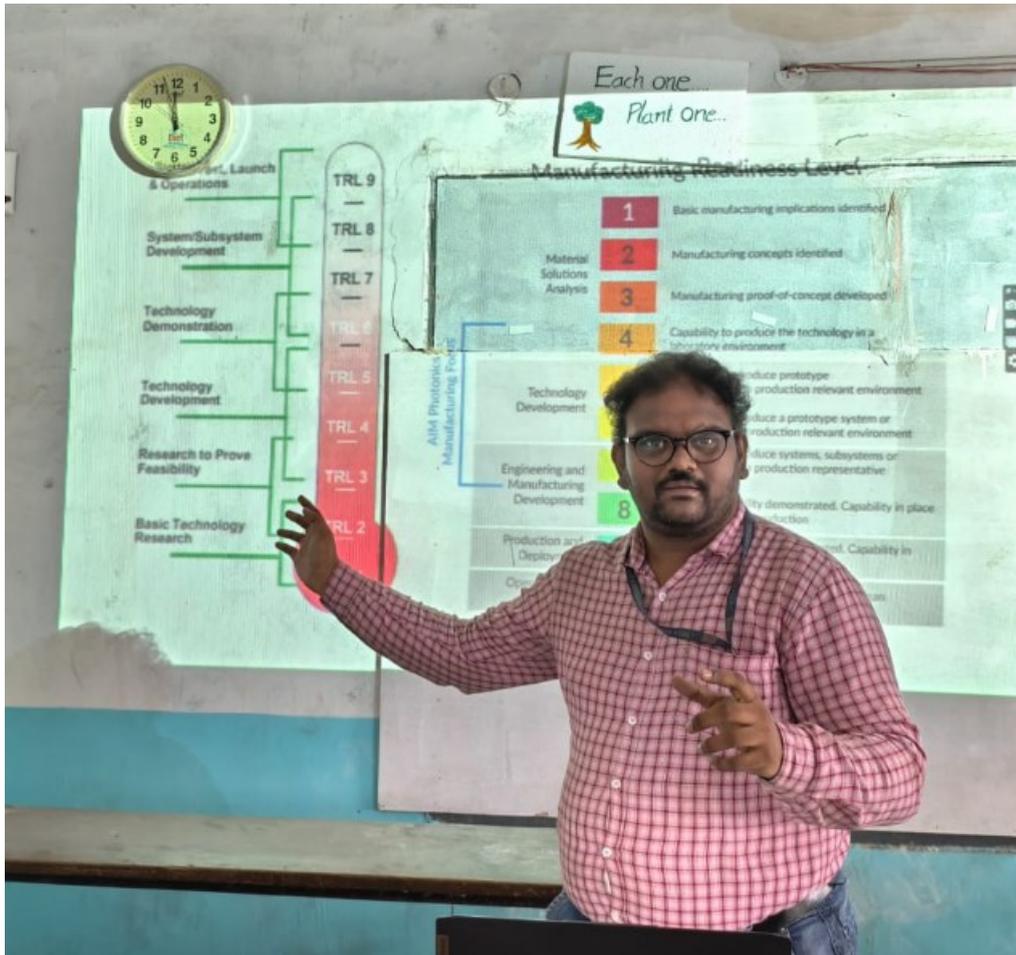


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Glimpses of Session-1

Session 2: Commercialization of Lab Technologies & Tech-Transfer

The second part of the session focused on the **commercialization of lab technologies** and the **technology transfer (tech-transfer) process**. The key aspects discussed were:

- **Intellectual Property (IP) Protection** – Securing patents, copyrights, and trademarks for research innovations.
- **Licensing Strategies** – Exploring exclusive and non-exclusive licensing agreements for commercial partnerships.
- **Industry Collaboration** – Partnering with industries for funding, development, and deployment.
- **Market Analysis & Business Models** – Understanding market demand, competition, and sustainable business strategies.
- **Challenges in Tech-Transfer** – Addressing issues like funding constraints, regulatory compliance, and industry-academia collaboration gaps.

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Students Participation in Session 1 and Session 2 of the Expert Talk

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Attendance: 52 Students 01 Faculty

S.No.	Student Name	Attendance
1	BANDARU TEJESWI	Attended
2	BONDA LIKITHA	Attended
3	BUDDHA OM SAI VASANTHI	Attended
4	DULAM DEVI SRI PRASAD	Attended
5	DULLA VANAJA	Attended
6	DWARAPUREDDI SURIBABU	Attended
7	GALLA BHARGAV	Attended
8	GURRALA. PAVANI	Attended
9	KOLATA PRABHAS VENKATA SAI	Attended
10	MAJJI SHANMUKH NAIDU	Attended
11	MALLA SUKUMAR ARJUN	Attended
12	MOLLI MOUNIKA	Attended
13	MUCHUPALLI SAI	Attended
14	NETALA JHANSI	Attended
15	PADALA MANOJ	Attended
16	PANDALA HEMALATHA	Attended
17	PATTI YELLARAO	Attended
18	RAYAVARAPU ABHIRAM	Attended
19	REKHA DHARMENDRA	Attended
20	SAIDALA REVANTH KUMAR	Attended
21	SHYAM RAJU REDDY M	Attended
22	VADDI KARTHIK	Attended
23	VEPADA PAVANI	Attended
24	VILLURI KIRTHANASRI	Attended
25	YALLAPU NIHARIKA	Attended
26	YELLAPU DHANUSH	Attended
27	ADARI KUMANIKA SUSHMA	Attended

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28	ADARI PUSHPA RAJU	Attended
29	ALLA VENKATA YOSHITHA	Attended
30	ARAVA YESHWANTH	Attended
31	ATAVA VINAY KUMAR	Attended
32	CHIKKALA UDAY KIRAN	Attended
33	DWARAPUDI PAVAN KUMAR	Attended
34	GEDDADA VENKATA SAI RAM	Attended
35	KARNAM AKHILA	Attended
36	KATHA BHARATH SAI	Attended
37	KONA SURYA PRAKASA RAO	Attended
38	MATCHA KARTHIK	Attended
39	MINDI JAGADEESH	Attended
40	MOTHUKURI SAI PRAKASH	Attended
41	PALLELA JAGAN DATTU	Attended
42	PILLA JANARDHAN KUMAR	Attended
43	SALAPU JAHNAVI	Attended
44	SAPPA CHANDINI	Attended
45	SARAGADAM VAMSI	Attended
46	SIMMA RAMYA	Attended
47	SWAYAMVARAPU MANIKANTA	Attended
48	TAGARAMPUDI YAGNA PRAKASH	Attended
49	VEMULAPUDI VENKAT JASWANTH	Attended
50	YEDDU RAMU	Attended
51	R SAMUEL RAJ	Attended
52	K CHARAN SRI	Attended

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Conclusion: The expert talk provided valuable insights into the structured approach of innovation development and the commercialization of lab technologies. The interactive session allowed participants to gain practical knowledge about navigating the complexities of tech-transfer and industry collaboration. Such discussions are essential to fostering a robust ecosystem for translating research into impactful technologies for society.

(Dr. S Ramana Kumar. Joga)

Department R&D coordinator

Dr. R Vaikunta Rao

Principal

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