

Session Details:

Title of the session:

Ideas to Prototypes : Tools to Innovate

Date with Month & Year: 10th July 2026

Duration (in hours): 2 Hrs

Mode: (Online / Offline / Hybrid) : **Offline**

Venue / Platform: ATL Lab, Kendriya Vidyalaya DRDO

Activity Category: ATL School Training and Bootcamp Session

Objective of the Activity: The objective of the activity was to give an exposure and train 8th standard students of Kendriya Vidyalaya DRDO in using tools such as Arduino for creating prototypes for their ideas.

Activity Led by: (Institute Council/ Student Council) : **Institute Council**

Theme: (Innovation, Entrepreneurship, IPR, Startup) : **Innovation**

Resource Person Details:

Name: Prof Keka Mukhopadhyaya

Designation: Assistant Professor

Organization/Institution: CMR Institute of Technology, Bengaluru

Objective:

The objective of the expert talk was to create awareness among students, faculty members, and budding entrepreneurs about the fundamentals of Intellectual Property Rights (IPR) and their significance in innovation and entrepreneurship. The session aimed to provide practical insights into patents, trademarks, copyrights, and the importance of protecting intellectual assets during product development, research, and startup activities.

Summary:

The Institution's Innovation Council (IIC) – CMRIT, in association with Kendriya Vidyalaya DRDO, successfully organized a Training & Bootcamp session on “Ideas to Prototypes: Tools to Innovate” at the ATL Lab at KV DRDO Bengaluru. The training session was conducted by Prof Keka Mukhopadhyaya, Assistant

Professor in the Dept of ECE at CMR Institute of Technology, Bengaluru. The session focused on introducing students to Arduino and its role in prototype development.

Key highlights of the session:

1. **Arduino Fundamentals** : Prof Mukhopadhyaya explained the significance of Arduino as a platform for innovation supporting her explanations with live demonstrations to help students grasp practical applications
2. **Prototyping emphasis** : She emphasized the importance of translating good appropriate ideas into working prototypes encouraging students to think critically about feasibility and real world applications before building.
3. **Sensor training** : Students were trained on various sensors and their integration with Arduino including UV sensors, gas sensors, humidity sensors etc.

The session aimed to build foundational skills in electronics and innovation among young school students aligning with the broader goals of the Atal Tinkering Lab initiative to nurture curiosity and creativity and hands-on learning.

Benefits:

Hands-on Technical Exposure: Introduced students to real world electronics and Arduino programming at an early stage.

Practical learning: Live demonstrations helped bridge the gap between theory and application making concepts easier to understand and retain.

Innovation Mindset : Encouraged students to identify appropriate real life problems and think about solutions through prototyping

Key Performance Indicators (KPIs)-

Total Participants: 59 (8th Standard Students)

Pre-Post Awareness Improvement 5% to 70%

Number of Queries/Interactions: 25

Participation Satisfaction Rating: 4.5/5

Registration link:

<https://forms.gle/CMi7wNEmk3RHN4un7>

Attendance sheet Drive Link:

Sample Feedback(screenshot)

Photo – Collage





Social Media Links	
Twitter	https://x.com/i/status/2075463577998418295
Facebook	https://www.facebook.com/share/p/18o2GjJ2K1/
Instagram	https://www.instagram.com/p/DamgLumtv4Y/?igsh=MTkwbnlhZ3ZhNThxZQ==
Video url, if applicable	

S. No	Particulars	Details
1	Name of the Organizer	Dr. Rajesh Gopal
2	Designation	Associate Professor, Dept. of Physics, CMRIT
3	Contact Details - Mobile	8884339217
4	Contact Details – e-mail id	rajesh.g@cmrit.ac.in
5	Date of event (If more than 1 day, mention from and to date)	10 th July, 2026
6	Duration in mins	2hrs
7	Number of student participations	59
8	Number of faculty participations	2
9	Number of external participations	-

**NAAC
GRADE A++**
ACCREDITED INSTITUTION



CMR INSTITUTE OF TECHNOLOGY BENGALURU

The Department of Basic Sciences, in association with the Institution's Innovation Council(IIC), organized an ATL Exposure Visit for 11th Grade students of Kendriya Vidyalaya, DRDO



The Department of Basic Sciences, in association with the Institution's Innovation Council(IIC), organized an ATL Exposure Visit for 11th Grade students of Kendriya Vidyalaya, DRDO on 4th August 2026 from 9:30 AM to 12:30 PM. The visit gave students hands-on exposure to CMRIT's Incubation Centre and Makerspace, offering them insight into the Institution's Innovation and Entrepreneurship Ecosystem. As part of the program, Dr. K.H.Raveesha, Head of the Department of Physics, conducted an engaging session on "Innovation : Skills and Techniques", introducing students to the mindset and methodologies behind innovative thinking and problem solving. The session combined practical exposure with conceptual learning, aiming to inspire young minds to explore innovation, design thinking and entrepreneurship from an early academic stage.

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Session Details:

Title of the session: ATL Exposure Visit for 11th Grade Students of Kendriya Vidyalaya, DRDO

Date with Month & Year: 4th August 2026

Duration (in hours): 3 Hrs (9:30 AM – 12:30 PM)

Mode: Offline

Venue / Platform: CMRIT Incubation Centre and Makerspace, Bengaluru

Activity Category: ATL Exposure Visit

Objective of the Activity: The objective of the activity was to give 11th Grade students of Kendriya Vidyalaya, DRDO hands-on exposure to CMRIT's Incubation Centre and Makerspace, offering insight into the Institution's Innovation and Entrepreneurship Ecosystem.

Activity Led by: Institution's Innovation Council

Theme: Innovation, Entrepreneurship

Resource Person Details:

Name: Dr. K.H. Raveesha

Designation: Head of the Department of Physics

Organization/Institution: CMR Institute of Technology, Bengaluru

Objective:

The objective of the session was to introduce students to the mindset and methodologies behind innovative thinking and problem solving, combining practical exposure with conceptual learning.

Summary:

The Department of Basic Sciences, in association with the Institution's Innovation Council (IIC), organized an ATL Exposure Visit for 11th Grade students of Kendriya Vidyalaya, DRDO on 4th August 2026 from 9:30 AM to 12:30 PM. The visit gave students hands-on exposure to CMRIT's Incubation Centre and Makerspace, offering them insight into the Institution's Innovation and Entrepreneurship Ecosystem. As part of the program, Dr. K.H. Raveesha, Head of the Department of Physics, conducted an engaging session on "Innovation: Skills and Techniques," introducing students to the mindset and methodologies behind innovative thinking and problem solving. The session combined practical exposure with conceptual learning, aiming to inspire young minds to explore innovation, design thinking, and entrepreneurship from an early academic stage.

Key highlights of the session:

1. Incubation Centre Tour: Students were given a guided tour of CMRIT's Incubation Centre and Makerspace, including the Shop Floor facility.
2. Innovation: Skills and Techniques: Dr. K.H. Raveesha conducted a session introducing students to the mindset and methodologies behind innovative thinking and problem solving.
3. Ecosystem Exposure: The visit offered students insight into CMRIT's broader Innovation and Entrepreneurship Ecosystem.

The program aimed to inspire young minds to explore innovation, design thinking, and entrepreneurship from an early academic stage.

Benefits:

Hands-on Exposure: Gave students direct exposure to a real incubation centre and makerspace environment.

Conceptual Learning: Combined practical exposure with conceptual insight into innovation methodologies.

Early Academic Inspiration: Introduced innovation, design thinking, and entrepreneurship at an early academic stage.

Ecosystem Awareness: Helped students understand how an institutional innovation and entrepreneurship ecosystem functions.

Key Performance Indicators (KPIs)-

Total Participants: 51

Pre-Post Awareness Improvement: [figure to be confirmed from feedback data]

Number of Queries/Interactions: 12

Participation Satisfaction Rating: 4/5

Photo – Collage



Social Media Links	
Twitter	
Facebook	
Instagram	
Video url, if applicable	

S. No	Particulars	Details
1	Name of the Organizer	Dr. Rajesh Gopal
2	Designation	ATL Coordinator, CMRIT
3	Contact Details - Mobile	8884339217
4	Contact Details - e-mail id	rajesh.g@cmrit.ac.in
5	Date of event	4th August, 2026
6	Duration in mins	180 mins (3 hrs)
7	Number of student participations	51
8	Number of faculty participations	4
9	Number of external participations	2

Session Details:

Title of the session: ATL Mentor Mentee Meet on “Design Thinking: Pathway to Innovation”

Date with Month & Year: 13th August 2026

Duration (in hours): 2 Hrs

Mode: Offline

Venue / Platform: Bapuji Hall, KV DRDO, Bengaluru

Activity Category: ATL Mentor Mentee Meet

Objective of the Activity: The objective of the activity was to bring together ATL mentors and mentee students of Kendriya Vidyalaya DRDO to introduce the design thinking framework as a structured pathway for converting ideas into innovative, real-world solutions.

Activity Led by: Institute Council

Theme: Innovation

Resource Person Details:

Name: Dr. Rajesh Gopal (ATL Coordinator, CMRIT) and Mrs. Laxmi P (ATL Coordinator, KV DRDO)

Designation: ATL Coordinators

Organization/Institution: CMR Institute of Technology, Bengaluru / Kendriya Vidyalaya DRDO, Bengaluru

Objective:

The objective of the mentor-mentee meet was to guide students through the design thinking process – empathize, define, ideate, prototype, and test – and to help them connect this framework to their own ATL projects with the support of assigned mentors.

Summary:

CMRIT's Institution's Innovation Council, in association with Kendriya Vidyalaya DRDO, Bengaluru, organized an ATL Mentor Mentee Meet on “Design Thinking: Pathway to Innovation” at Bapuji Hall, KV DRDO on 13th August 2026. The session brought together mentors from CMRIT and mentee students from KV DRDO's Atal Tinkering Lab to strengthen the mentor-mentee relationship and guide students on applying design thinking to their innovation projects. The event was graced by Dr. Vakula Rani J (President, IIC, CMRIT), Dr. Raveesha K.H. (HoD, BS-PHY, CMRIT), and Dr. Sanjay Jain (Principal, CMRIT).

Key highlights of the session:

1. Design Thinking Framework : Introduced the five stages – empathize, define, ideate, prototype, and test – through simple, relatable examples.
2. Group Exercises : Students identified everyday problems in interactive groups and reframed them as design opportunities.
3. Mentor Pairing : Mentors were paired with mentee groups to guide brainstorming and initial ideation for ongoing and upcoming ATL projects.

An open discussion session followed, allowing students to seek guidance from mentors and dignitaries on their project ideas.

Benefits:

Structured Problem-Solving: Introduced students to a repeatable framework for turning ideas into workable prototypes.

Mentorship Continuity: Strengthened the ongoing mentor-mentee relationship between CMRIT faculty and KV DRDO students.

Peer Learning: Encouraged collaborative thinking through group exercises and open discussion.

Innovation Mindset: Helped students approach their ATL projects with greater clarity and confidence.

Key Performance Indicators (KPIs)-

Total Participants: [figure to be confirmed from attendance sheet]

Pre-Post Awareness Improvement: [figure to be confirmed from feedback data]

Number of Queries/Interactions: [figure to be confirmed]

Participation Satisfaction Rating: [figure to be confirmed from feedback data]

Registration link:

[Not stated on poster]

Attendance sheet Drive Link:

[Not stated on poster]

Sample Feedback(screenshot)

[Not stated on poster]

Photo – Collage



Social Media Links	
Twitter	[Not stated on poster]
Facebook	[Not stated on poster]
Instagram	[Not stated on poster]

Video url, if applicable	[Not stated on poster]
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S. No	Particulars	Details
1	Name of the Organizer	Dr. Rajesh Gopal
2	Designation	ATL Coordinator, CMRIT
3	Contact Details - Mobile	8884339217
4	Contact Details - e-mail id	rajesh.g@cmrit.ac.in
5	Date of event	13th August, 2026
6	Duration in mins	120 mins (2 hrs)
7	Number of student participations	[Not stated on poster]
8	Number of faculty participations	[Not stated on poster]
9	Number of external participations	[Not stated on poster]

Session Details:

Title of the session: ATL Mentor Mentee Meet on “SCAMPER: A Tool for Ideation”

Date with Month & Year: 29th August 2026

Duration (in hours): 2 Hrs

Mode: Offline

Venue / Platform: Bapuji Hall, KV DRDO, Bengaluru

Activity Category: ATL Mentor Mentee Meet

Objective of the Activity: The objective of the activity was to introduce ATL mentee students of Kendriya Vidyalaya DRDO to the SCAMPER technique as a practical tool for generating and refining ideas for their innovation projects.

Activity Led by: Institute Council

Theme: Innovation

Resource Person Details:

Name: Dr. Rajesh Gopal (ATL Coordinator, CMRIT) and Mrs. Laxmi P (ATL Coordinator, KV DRDO)

Designation: ATL Coordinators

Organization/Institution: CMR Institute of Technology, Bengaluru / Kendriya Vidyalaya DRDO, Bengaluru

Objective:

The objective of the mentor-mentee meet was to familiarize students with the SCAMPER technique – Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, Reverse – and to help them apply it as a structured tool for ideation in their ATL projects.

Summary:

CMRIT's Institution's Innovation Council, in association with Kendriya Vidyalaya DRDO, Bengaluru, organized an ATL Mentor Mentee Meet on “SCAMPER: A Tool for Ideation” at Bapuji Hall, KV DRDO on 29th August 2026. The session brought together mentors from CMRIT and mentee students from KV DRDO's Atal Tinkering Lab to strengthen the ongoing mentor-mentee relationship and guide students on using SCAMPER to refine their innovation projects. The event was graced by Dr. Vakula Rani J (President, IIC, CMRIT), Dr. Raveesha K.H. (HoD, BS-PHY, CMRIT), and Dr. Sanjay Jain (Principal, CMRIT).

Key highlights of the session:

1. SCAMPER Framework : Introduced each of the seven SCAMPER prompts – Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, Reverse – through simple, relatable examples.
2. Applied Ideation : Students practiced applying SCAMPER prompts to reframe and improve their existing ATL project ideas.
3. Mentor Guidance : Mentors worked with mentee groups to help them apply the SCAMPER prompts to their ongoing and upcoming projects.

An open discussion session followed, allowing students to seek guidance from mentors and dignitaries on their project ideas.

Benefits:

Structured Ideation: Introduced students to a repeatable tool for generating and refining ideas.

Mentorship Continuity: Strengthened the ongoing mentor-mentee relationship between CMRIT faculty and KV DRDO students.

Peer Learning: Encouraged collaborative thinking through group exercises and open discussion.

Innovation Mindset: Helped students approach their ATL projects with greater clarity and confidence.

Key Performance Indicators (KPIs)-

Total Participants: [figure to be confirmed from attendance sheet]

Pre-Post Awareness Improvement: [figure to be confirmed from feedback data]

Number of Queries/Interactions: [figure to be confirmed]

Participation Satisfaction Rating: [figure to be confirmed from feedback data]

Registration link:

[Not stated on poster]

Attendance sheet Drive Link:

[Not stated on poster]

Sample Feedback(screenshot)

[Not stated on poster]

Photo – Collage



Social Media Links	
Twitter	[Not stated on poster]
Facebook	[Not stated on poster]
Instagram	[Not stated on poster]

Video url, if applicable	[Not stated on poster]
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1	Name of the Organizer	Dr. Rajesh Gopal
2	Designation	ATL Coordinator, CMRIT
3	Contact Details - Mobile	8884339217
4	Contact Details - e-mail id	rajesh.g@cmrit.ac.in
5	Date of event	29th August, 2026
6	Duration in mins	120 mins (2 hrs)
7	Number of student participations	[Not stated on poster]
8	Number of faculty participations	[Not stated on poster]
9	Number of external participations	[Not stated on poster]

Session Details:

Title of the session: Innovation & Entrepreneurship Outreach Program in Schools/Community

Date with Month & Year: 19th August 2026

Duration (in hours): 3 Hrs (9:30 AM – 12:30 PM)

Mode: Offline

Venue / Platform: Block B, Physics Lab, CMRIT

Activity Category: IIC Outreach Activity – ATL Participation

Objective of the Activity: The objective of the activity was to strengthen collaboration between CMRIT and neighboring ATL schools by encouraging young learners to actively engage with innovation, design thinking, and entrepreneurship through structured outreach and mentorship activities.

Activity Led by: Institution's Innovation Council

Theme: Innovation, Entrepreneurship

Resource Person Details:

Name: Dr. C. Anil Kumar

Designation: Department of Mechanical Engineering

Organization/Institution: Gopalan College of Engineering and Management

Objective:

The objective of the session was to highlight the importance of materials research in driving innovation and entrepreneurship, and to share insights on fostering an innovation mindset and entrepreneurial thinking among school students.

Summary:

The Department of Basic Sciences, in association with the Institution's Innovation Council (IIC), CMRIT, invited ATL to participate in the IIC activity "Innovation & Entrepreneurship Outreach Program in Schools/Community" on 19th August 2026, from 9:30 AM to 12:30 PM. The program featured a session by Dr. C. Anil Kumar, Department of Mechanical Engineering, Gopalan College of Engineering and Management, who highlighted the importance of materials research in driving innovation and entrepreneurship, and shared valuable insights on fostering an innovation mindset and entrepreneurial thinking among school students.

Key highlights of the session:

1. **Materials Research :** Dr. Anil Kumar explained how materials research contributes to innovation and entrepreneurship, supported by real-world examples.
2. **Innovation Mindset :** The session focused on fostering an innovation mindset and entrepreneurial thinking among school students.
3. **Outreach Collaboration :** The program strengthened collaboration between CMRIT and neighboring ATL schools through structured outreach and mentorship.

The initiative sought to encourage young learners to actively engage with innovation, design thinking, and entrepreneurship.

Benefits:

Industry-Academia Exposure: Introduced students to perspectives from engineering academia beyond their regular curriculum.

Entrepreneurial Awareness: Helped students understand the link between materials research, innovation, and entrepreneurship.

Outreach & Mentorship: Strengthened ongoing collaboration between CMRIT and neighboring ATL schools.

Innovation Mindset: Encouraged students to think about real-world applications of research and innovation.

Key Performance Indicators (KPIs)-

Total Participants: 48

Pre-Post Awareness Improvement:

Number of Queries/Interactions: 23

Participation Satisfaction Rating : 4/5

Photo – Collage



Social Media Links	
Twitter	
Facebook	
Instagram	
Video url, if applicable	

S. No	Particulars	Details
1	Name of the Organizer	Dr. Rajesh Gopal
2	Designation	ATL Coordinator, CMRIT
3	Contact Details - Mobile	8884339217
4	Contact Details - e-mail id	rajesh.g@cmrit.ac.in
5	Date of event	19th August, 2026
6	Duration in mins	180 mins (3 hrs)
7	Number of student participations	49
8	Number of faculty participations	4
9	Number of external participations	2