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COLLEGE OF ENGINEERING
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A REPORT ON ALUMNI SESSION

TITLE AND DURATION: An Alumni Session on "Scope in Aviation Industry" on May 17, 2024.

ORGANIZER(S): Department of Mechanical, Poornima College of Engineering, Jaipur.

EXPECTED OUTCOMES:

Activity-1.1	Students will be able to apply insights and advice from alumni to develop a clearer career roadmap and professional growth plan.
Activity-1.2	Students will be able to integrate practical knowledge shared by alumni into their academic projects and assignments.
Activity-1.3	Students will be able to build a professional network by connecting with alumni, enhancing their career prospects and opportunities.

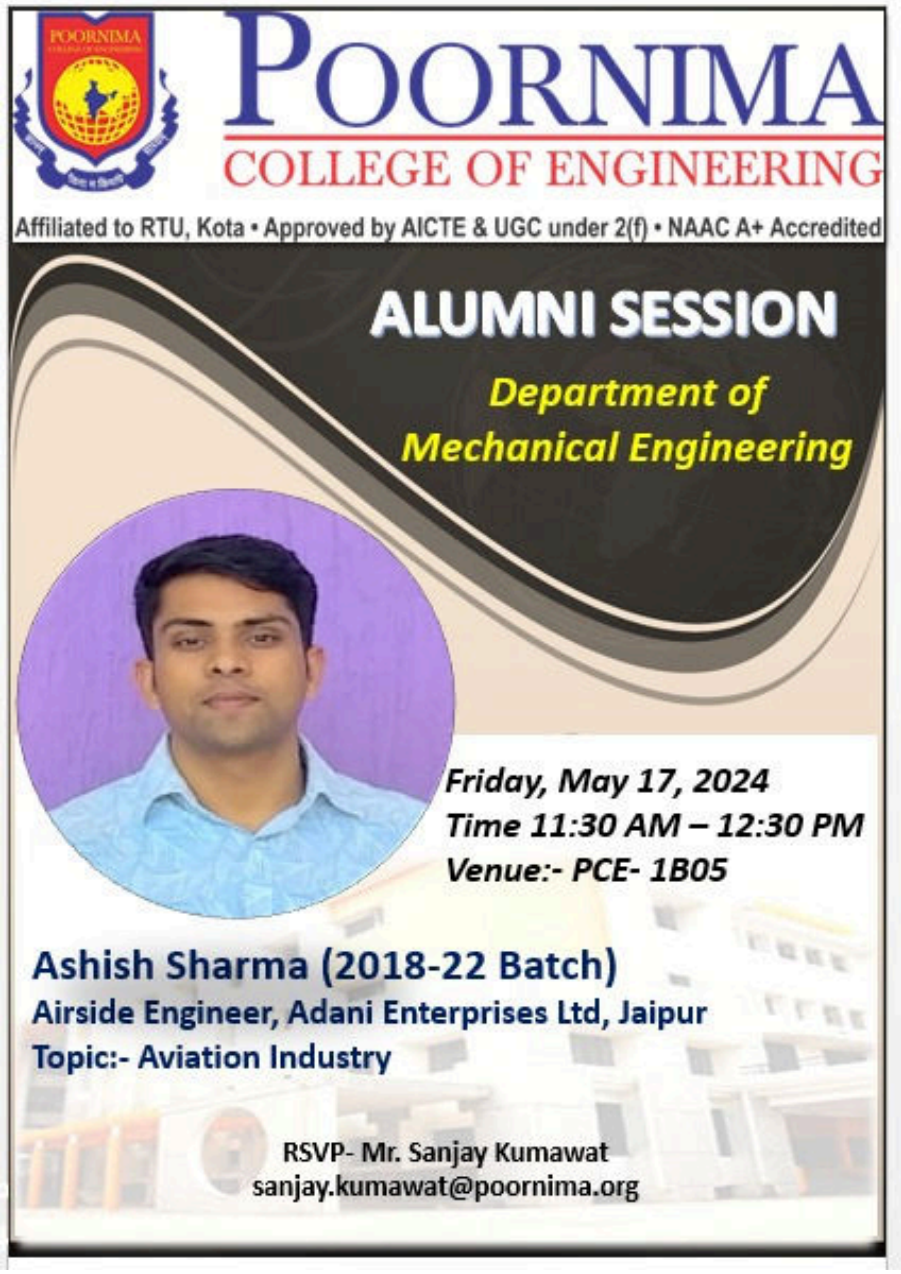
MAPPINGS WITH PO&PSO:

CO-PO-PSO Mapping: Mapping Levels: 1- Low, 2- Moderate, 3-Strong

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	3	-	-	-	-	-	-	2	3	2
CO2	-	-	-	-	-	-	-	-	3	-	-	-	2	3	2
CO3	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

FLYER / POSTER:



BRIEF BIODATA OF RESOURCE PERSON: Mr Ashish Sharma has graduated in 2022 as a Mechanical Engineer from Poornima College of Engineering. He is currently working as Airside Engineer, Adani Enterprises Ltd, Jaipur.

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

BRIEF OF THE SESSION:

Introduction

On 17th May 2024, our mechanical engineering department had the privilege of hosting an interactive session with one of our distinguished alumni. The session was attended by 2nd and 3rd-year students and focused on the scope in the aviation industry within mechanical engineering. This report summarizes the key points discussed during the session and highlights the valuable insights shared by our alumnus.

Objective of the Session

The primary objective of the session was to provide students with a comprehensive understanding of the opportunities and career paths available in the aviation industry for mechanical engineers. The session aimed to:

Highlight Career Opportunities: Discuss various roles and opportunities within the aviation industry for mechanical engineers.

Understand Industry Trends: Provide insights into the current trends and advancements in aviation technology.

Offer Practical Guidance: Advise on the necessary skills and educational pathways to succeed in the aviation industry.

Overview of the Session

The session began with a warm welcome and introduction of our alumnus, who has extensive experience in the aviation industry. The alumnus is currently working with a leading aerospace company, specializing in aircraft design and development.

Key Points Discussed

1. Opportunities in the Aviation Industry

The alumnus highlighted various opportunities within the aviation industry for mechanical engineers:

Aircraft Design and Development: Involvement in designing and developing aircraft components, structures, and systems. Emphasized roles in aerodynamics, materials science, and structural analysis.

Manufacturing and Production: Discussed opportunities in the manufacturing and production of aircraft parts, emphasizing the importance of precision engineering and advanced manufacturing techniques such as additive manufacturing (3D printing).

Maintenance, Repair, and Overhaul (MRO): Explained the significance of MRO services in ensuring aircraft safety and efficiency. Mechanical engineers play a crucial role in diagnosing issues, performing repairs, and implementing upgrades.

Systems Engineering: Highlighted the role of systems engineers in integrating various subsystems within an aircraft, ensuring they work harmoniously. This includes avionics, propulsion, and environmental control systems.

2. Current Trends and Advancements

The alumnus provided insights into the latest trends and advancements in the aviation industry:

Sustainable Aviation: Discussed the push towards sustainable aviation technologies, including the development of electric and hybrid aircraft, and the use of sustainable aviation fuels (SAFs).

Advanced Materials: Emphasized the importance of lightweight, high-strength materials such as composites and advanced alloys in reducing aircraft weight and improving fuel efficiency.

Digital Twin Technology: Introduced the concept of digital twins, which are virtual replicas of physical systems used for real-time monitoring, simulation, and optimization of aircraft performance.

Automation and AI: Highlighted the increasing role of automation and artificial intelligence in aircraft design, manufacturing, and maintenance processes.

3. Skills and Knowledge Areas

The alumnus recommended several key skills and knowledge areas for students interested in the aviation industry:

Aerodynamics and Fluid Mechanics: Essential for understanding the principles of flight and designing efficient aircraft.

Materials Science: Knowledge of advanced materials and their properties is crucial for developing lightweight, durable aircraft components.

Structural Analysis: Skills in finite element analysis (FEA) and other structural analysis methods are important for ensuring the integrity and safety of aircraft structures.

Systems Integration: Understanding how different aircraft systems interact and integrating them effectively is critical for successful aircraft design.

4. Educational Pathways and Certifications

The alumnus suggested the following educational pathways and certifications to enhance career prospects in the aviation industry:

Advanced Degrees: Pursuing a Master's or PhD in aerospace or mechanical engineering can open up advanced research and development opportunities.

Professional Certifications: Obtaining certifications such as the Fundamentals of Engineering (FE) and Professional Engineer (PE) can enhance professional credibility and career prospects.

Industry-Specific Training: Participating in specialized training programs offered by aerospace companies and professional organizations.

Student Interaction

During the Q&A session, students asked insightful questions about career paths, industry challenges, and the future of mechanical engineering in the aviation industry. The alumnus provided thoughtful answers, drawing from his own experiences and expertise.

Some of the questions included:

How to get started in the aviation industry as a mechanical engineer?

The alumnus suggested internships, co-op programs, and networking with industry professionals.

What are the biggest challenges facing the aviation industry today?

He discussed the challenges of reducing environmental impact, improving fuel efficiency, and ensuring passenger safety and comfort.

Conclusion

The session was highly informative and inspiring for our students. It provided them with a clearer understanding of the opportunities and challenges in the aviation industry, as well as the necessary skills and educational pathways to succeed. We are grateful to our alumnus for taking the time to share his knowledge and experiences, and we look forward to more such enriching interactions in the future.

GLIMPSES:

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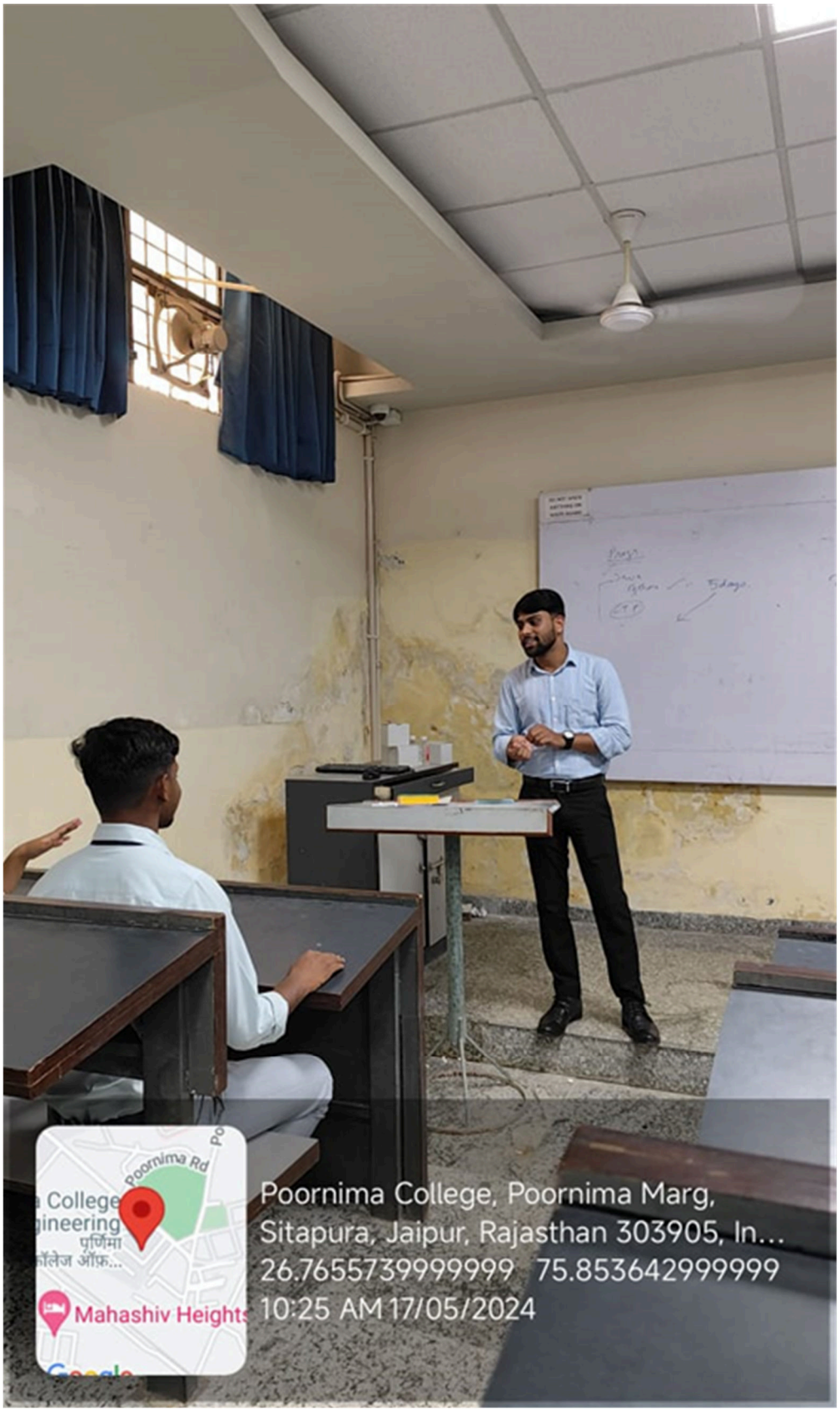

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LIST OF PARTICIPANTS & ATTANDANCE:

Poornima College of Engineering, Jaipur

Department of Mechanical Engineering

17th May 2024 - Alumni Session.

Sr. No.	Year	Name	Registration No.	Sign
1	3rd Year	AYUSH SAXENA	PCE21ME001	Ayush Saxena
2	3rd Year	BHANU PRATAP	PCE21ME002	Bhanu Pratap
3	3rd Year	FARHAN KHAN	PCE21ME003	ABSENT.
4	3rd Year	HARSH KUMAWAT	PCE21ME004	ABSENT.
5	3rd Year	IBRAHIM .	PCE21ME006	Ibrahim
6	3rd Year	JAYANT SONI	PCE21ME007	Jayant Soni
7	3rd Year	MOHAMMAD AYYAN	PCE21ME008	Mohammad Ayyan
8	3rd Year	MOHIT JOSHI	PCE21ME009	Mohit Joshi
9	3rd Year	MONU YADAV	PCE21ME010	Monu
10	3rd Year	PRIYA .	PCE21ME011	Priya
11	3rd Year	RAJU KUMAR	PCE21ME013	Raju Kumar
12	3rd Year	RAJVEER SINGH	PCE21ME014	Rajveer Singh
13	3rd Year	RAMNARESH MATWA	PCE21ME016	Ramnaresh
14	3rd Year	ROBIN SINGH	PCE21ME017	Robin
15	3rd Year	SULABH SAXENA	PCE21ME020	Sulabh Saxena

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16	3rd Year	TANMAY JANGID	PCE21ME021	
17	3rd Year	UTKARSH AGRAWAL	PCE21ME022	
18	3rd Year	VIVEK BAIRWA	PCE21ME023	
19	3rd Year	ASHISH KUSHWAH	PCE22ME801	
20	2nd Year	ABHINAV ANAND	PCE22ME002	
21	2nd Year	ABHISHEK ANAND	PCE22ME003	
22	2nd Year	ABHISHEK YADAV	PCE22ME004	
23	2nd Year	ANIL KUMAR MEENA	PCE22ME005	
24	2nd Year	ANIL SINGH	PCE22ME006	
25	2nd Year	ASHISH KUMAR	PCE22ME007	
26	2nd Year	BHUVNESH SARASWAT	PCE22ME008	
27	2nd Year	GAURAV JANGID	PCE22ME009	
28	2nd Year	HEERA LAL	PCE22ME010	
29	2nd Year	HITESH PANWAR	PCE22ME011	
30	2nd Year	KARTIKEY SINGH	PCE22ME013	
31	2nd Year	NITIN	PCE22ME015	
32	2nd Year	RAJPUT ANIL NANDKISHOR	PCE22ME016	
33	2nd Year	RISHI RAJ SAINI	PCE22ME017	

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FEEDBACK ANALYSIS:

SESSION FEEDBACK ANALYSIS									
Sr.no.	Attributes	Total Feed Back	Total Feed Back:- 30						
			>80% Objective Achieved, 60 to 79 %- Satisfactory, Below 60%, Need improvement						
1	Do you think session was useful for you?	30	Yes	No	Partial	---	---	Remark	
			25	0	5	0	0	Objective Achieved	83.33
			83.33	0.00	16.67	0.00	0.00		
2	Did you receive all the information you expected by the session?	30	Yes	No	Partial	---	---	Remark	
			28	0	2	0	0	Objective Achieved	93.33
			93.33	0.00	6.67	0.00	0.00		
3	Opinion on Rating the speaker for the session	30	Outstanding	Excellent	Good	Average	Satisfactory	Remark	
			26	2	2	0	0	Objective Achieved - Outstanding & Excellent	93.33
			86.67	6.67	6.67	0.00	0.00		
4	Audience Query Response by the Speaker	30	Outstanding	Excellent	Good	Average	Satisfactory	Remark	
			22	5	2	1	0	Objective Achieved	90.00
			73.33	16.67	6.67	3.33	0.00		
5	Overall experience about the Session	30	Outstanding	Excellent	Good	Average	Satisfactory	Remark	
			23	3	3	1	0	Objective Achieved - Outstanding & Excellent	86.67
			76.67	10.00	10.00	3.33	0.00		
6	Would you like to attend future Alumni Session conducted by the department?	30	Yes	No	---	---	---	Remark	
			29	1	0	0	0	Objective Achieved (Yes)	96.67
			96.67	3.33	0.00	0.00	0.00		

Notice

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PCE/ME/DO/2023-24/14 **Date: 11-05-2024**

NOTICE

"An Alumni Session on Scope in Aviation Industry" is being organized by the Department of Mechanical Engineering on **17, May 2024**. The activity will be held at as per the following schedule.

Date : 17, May 2024

Activity Name : An Alumni Session on Scope in Aviation Industry

Venue : 1B-05

Time : 9:00AM Onwards

The students are required to be present at the venue on time. For further query you may contact the Faculty Coordinator Mr. Sanjay Kumawat.

Dr. N. L. Jain
HoD, ME

ISI-6, RIICO Institutional Area, Sitapura, Jaipur: 302 022 (Rajasthan)
Phone: +91-9829255102, E-mail: registrar.pce@poornima.org, Website: www.poornima.org

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