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A REPORT ON ALUMNI SESSION

TITLE AND DURATION: An Alumni Session on "Programming Languages & AI" 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

СО	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. Director

FLYER / POSTER:



BRIEF BIODATA OF RESOURCE PERSON: Mr Ashish Sonwal has graduated in 2022 as a Mechanical Engineer from Poornima College of Engineering. He is currently working as a Project Engineer, Wipro & Mahindra world City Jaipur. He has intense knowledge of programming languages.

Dr. Mahesh Bundele

Stapura, JAIPUR

BRIEF OF THE SESSION:

Introduction

On 17th May, 2024, our Mechanical Engineering department had the pleasure of hosting an

interactive session with another esteemed alumnus. This session was aimed for 2nd and 3rd-

year students and focused on the significance of programming languages, artificial intelligence

(AI), and their scope within mechanical engineering. This report provides a comprehensive

summary of the discussions and insights shared during the session.

Objective of the Session

The primary objective of the session was to enlighten students on the importance of

programming languages and artificial intelligence in the field of mechanical engineering. The

session aimed to:

Introduce Key Programming Languages: Highlight essential programming languages that

are valuable for mechanical engineers.

Explore AI Applications: Discuss how AI and machine learning are transforming various

aspects of mechanical engineering.

Provide Career Insights: Offer guidance on skill development and career opportunities at the

intersection of mechanical engineering, programming, and AI.

Overview of the Session

The session began with a brief introduction of our alumnus, who has extensive experience in

integrating programming and AI technologies into mechanical engineering projects. The

alumnus is currently working at a leading technology firm, where he focuses on AI-driven

solutions for engineering problems.

Key Points Discussed

1. Importance of Programming Languages

The alumnus highlighted the critical role of programming languages in mechanical engineering:

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Dr. Mahesh

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Python: Emphasized Python's versatility and ease of use, making it ideal for data analysis, automation, and machine learning. Recommended it as a must-learn language for mechanical engineers.

MATLAB: Discussed MATLAB's powerful capabilities in numerical computation, simulations, and model-based design. Highlighted its extensive use in academia and industry for research and development.

C/C++: Mentioned the importance of C and C++ for performance-critical applications, including embedded systems and real-time simulation.

Other Languages: Briefly touched upon Java and JavaScript for specific applications like webbased interfaces for engineering tools.

2. Artificial Intelligence in Mechanical Engineering

The alumnus provided an in-depth look into how AI is transforming mechanical engineering:

Machine Learning (ML): Explained how ML algorithms are used for predictive maintenance, quality control, and optimization of manufacturing processes. Demonstrated examples of ML models predicting equipment failures and improving efficiency.

Computer Vision: Discussed the application of computer vision in automated inspection systems, robotics, and autonomous vehicles. Highlighted how image processing and pattern recognition are revolutionizing quality assurance.

Natural Language Processing (NLP): Mentioned the use of NLP for processing technical documents, automating report generation, and enhancing human-machine interaction in engineering tools.

3. Integration of Programming and AI in Mechanical Engineering

The alumnus shared examples of how programming and AI are integrated into mechanical engineering:

Simulation and Modelling: Use of AI to enhance simulation accuracy and speed. Examples included using neural networks to simulate complex physical phenomena.

Robotics and Automation: Integration of AI for advanced robotics applications, such as autonomous robots in manufacturing and logistics.

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Design Optimization: Application of AI in optimizing design parameters, reducing material

usage, and improving product performance.

4. Skills and Learning Pathways

The alumnus recommended the following skills and learning pathways:

Online Courses and Certifications: Suggested platforms like Coursera, edX, and Udacity for

courses in Python, machine learning, and AI.

Projects and Competitions: Encouraged participation in hackathons, coding competitions, and

collaborative projects to gain practical experience.

Internships and Industry Experience: Advised seeking internships where students can apply

programming and AI skills to real-world engineering problems.

Student Interaction

During the Q&A session, students asked various questions about programming and AI

applications in mechanical engineering. The alumnus provided detailed answers and shared his

experiences, which included:

How to start learning AI for mechanical engineers?

The alumnus recommended starting with Python, followed by introductory courses in machine

learning and AI, and applying these skills to small projects.

What are the career prospects for mechanical engineers with AI skills?

He highlighted the high demand for engineers who can bridge the gap between traditional

mechanical engineering and modern AI technologies, with opportunities in R&D, automation,

and smart manufacturing.

Conclusion

The session was highly informative and motivated our students to explore the intersection of

programming, AI, and mechanical engineering. The insights provided by our alumnus have

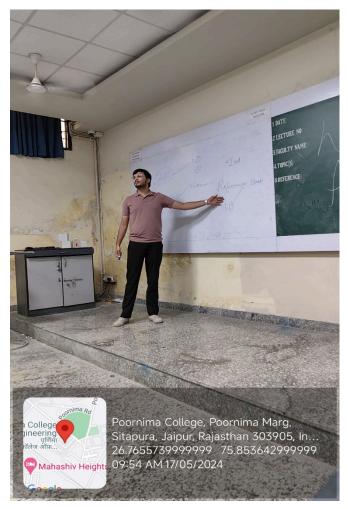
opened new avenues for our students to consider in their academic and professional journeys.

We are grateful for his time and expertise and look forward to more such enriching interactions.

Dr. Mahesh Bundel

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GLIMPSES:











LIST OF PARTICIPANTS & ATTANDANCE:

		Poornima College								
Department of Mechanical Engineering										
St. No. Year Name										
31. 140.	Year	Name	Registration No.	Sign						
1	3rd Year	AYUSH SAXENA	PCE21ME001	Alysel Samon						
2	3rd Year	BHANU PRATAP	PCE21ME002	Bhaha Pratap						
3	3rd Year	FARHAN KHAN	PCE21ME003	A 85 SENIT.						
4	3rd Year	HARSH KUMAWAT	PCE21ME004	ABSENT-						
5	3rd Year	IBRAHIM .	PCE21ME006	(68al)						
6	3rd Year	JAYANT SONI	PCE21ME007	Jens Jon!						
7	3rd Year	MOHAMMAD AYYAN	PCE21ME008	Als Augan						
8	3rd Year	MOHIT JOSHI	PCE21ME009	Mah. F John						
9	3rd Year	MONU YADAV	PCE21ME010	Mary						
10	3rd Year	PRIYA.	PCE21ME011	MAR						
11	3rd Year	RAJU KUMAR	PCE21ME013	Rouge Kums						
12	3rd Year	RAJVEER SINGH	PCE21ME014	याजवीर क्रिंह						
13	3rd Year	RAMNARESH MATWA	PCE21ME016	Rammoush						
14	3rd Year	ROBIN SINGH	PCE21ME017	Labria						
15	3rd Year	SULABH SAXENA	PCE21ME020	Sulabh Samu						

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16	2-131			
-	3rd Year	TANMAY JANGID	PCE21ME021	(T)
17	3rd Year	UTKARSH AGRAWAL	PCE21ME022	Janny Certhash
18	3rd Year	VIVEK BAIRWA		Certhash
19	3rd Year	ASHISH KUSHWAH	PCE21ME023	Jun Serm,
20	2nd Year		PCE22ME801	Dshyl Kasan
21		ABHINAV ANAND	PCE22ME002	Mhhmil
21	2nd Year	ABHISHEK ANAND	PCE22ME003	Alm
22	2nd Year	ABHISHEK YADAV	PCE22ME004	A al work
23	2nd Year	ANIL KUMAR MEENA	PCE22ME005	Aud
24	2nd Year	ANIL SINGH	PCE22ME006	(Amil)
25	2nd Year	ASHISH KUMAR	PCE22ME007	Media
26	2nd Year	BHUVNESH SARASWAT	PCE22ME008	Band
27	2nd Year	GAURAV JANGID	PCE22ME009	Springer
28	2nd Year	HEERA LAL	PCE22ME010	- fem
29	2nd Year	HITESH PANWAR	PCE22ME011	ABSENI
30	2nd Year	KARTIKEY SINGH	PCE22ME013	Karthen Shapen
31	2nd Year	NITIN	PCE22ME015	Nita
32	2nd Year	RAJPUT ANIL NANDKISHOR	PCE22ME016	Judy July -
33	2nd Year	RISHI RAJ SAINI	PCE22ME017	Rish.

FEEDBACK ANALYSIS:

SESSION FEEDBACK ANALYSIS											
		Total Feed Back	Total Feed Back:- 28								
Sr.no.	Attributes		>80% Objecti	ive Achieved	, 60 to 79	%- Satisfac	ctory, Below 60	%, Need improv	vement		
	Do you think	on was ful for	Yes No Partial				Remark				
1	session was useful for you?		26	0	2	0	0	Objective Achieved	92.86		
			92.86	0.00	7.14	0.00	0.00				
	Did you receive all the		Yes	No	Partial			Remark			
2	information you expected	28	25	1	2	0	0	Objective	89.29		
	by the session?		89.29	3.57	7.14	0.00	0.00	Achieved	69.29		
	Opinion on	28	Outstanding	Excellent	Good	Average	Satisfactory	Remark	<u> </u>		
3	Rating the speaker for		24	2	2	0	0	Objective Achieved - Outstanding & Excellent	92.86		
	the session		85.71	7.14	7.14	0.00	0.00				
	Audience		Outstanding	Excellent	Good	Average	Satisfactory	Remark	[
4	Query Response by the Speaker	esponse by	20	5	2	1	0	Objective	90.20		
			71.43	17.86	7.14	3.57	0.00	Achieved	89.29		
	Overall experience about the Session	experience about the 28	Outstanding	Excellent	Good	Average	Satisfactory	Remark	(
5			21	3	3	1	0	Objective Achieved -	85.71		
			75.00	10.71	10.71	3.57	0.00	Outstanding & Excellent			
	Would you like to attend future Alumni Session conducted by the department?	e to attend future Alumni Session inducted by the	Yes	No				Remark			
6			27	1	0	0	0	Objective	96.43		
			96.43	3.57	0.00	0.00	0.00	Achieved (Yes)			

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NOTICE

"An Alumni Session on Programming Languages & AI" 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 Programming Languages & AI

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

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