



# Syed Muhammad Musab Bin Naseem

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## ● ABOUT MYSELF

As a dedicated Lecturer of Mechanical Engineering at a reputable university, I have been enriching students' knowledge by teaching courses such as Calculus & Analytical Geometry, Applied Physics, and core Mechanical Engineering subjects. Additionally, I contribute as a visiting lecturer at various private institutions, where I teach College-level and aptitude-focused Physics. My passion for education and expertise in Physics have driven me to seek opportunities to teach A-Level Physics at a private college, where I can inspire and guide students in achieving academic excellence.

## ● WORK EXPERIENCE

 **DHA SUFFA UNIVERSITY – KARACHI, PAKISTAN**

**LAB ENGINEER & COURSE INSTRUCTOR – 02/2020 – 07/2024**

Lab Responsibilities:

Managed and maintained equipment in the Computer Integrated Manufacturing Lab and Mechanical Workshop, ensuring smooth operation and safety compliance.

Facilitated hands-on learning experiences and provided technical guidance to students.

Taught Labs:

Engineering Mechanics Lab

Mechanics of Materials Lab

Thermodynamics Lab

Engineering Drawing & Graphics Lab

Manufacturing Lab

Engineering Materials Lab

Workshop Practice

Heat Transfer & HVAC Lab

Mechanics of Machines Lab

Mechanical Vibrations Lab

Internal Combustion Engines & Powerplants Lab

Controls Engineering Lab

 **DEMOZTRATE EDUCATION CENTER – KARACHI, PAKISTAN**

**LECTURER & CURRICULUM DEVELOPER – 10/2020 – CURRENT**

**Faculty Responsibilities:**

- Taught **Physics** to 11th and 12th Standard students, covering both Local Board and Cambridge System (AS & A-Levels).
- Delivered specialized **Aptitude Physics** training for **University Entrance Tests** such as ECAT and MDCAT, preparing students for exams by PMDC, NED, PNEC, etc.

**Curriculum Development:**

- Developed comprehensive **study material**, including practice worksheets, tests, quizzes, and assignments for Physics.
- Ensured the alignment of study materials and mock exams with the syllabus and requirements set by the relevant exam-conducting authorities.

### **Additional Contributions:**

- Collaborated with the Director in the **hiring process** to recruit and onboard quality instructors for the institute.

**THE NEDIANS' INSTITUTE** – KARACHI, PAKISTAN

**LECTURER (VISITING FACULTY)** – 07/2023 – 06/2024

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### **Faculty Responsibilities:**

- Taught **Physics** to 11th and 12th Standard students.
- Provision of timely study material and quizzes.

**DHA SUFFA UNIVERSITY** – KARACHI, PAKISTAN

**LECTURER IN MECHANICAL ENGINEERING** – 08/2024 – CURRENT

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Teaching Courses:

Mechanics of Materials-I: Delivered lectures on fundamental topics such as stress, strain, and material behavior under different loading conditions.

Mechanics of Materials-II: Covered advanced topics including failure theories, fatigue, and plastic deformation.

Calculus & Analytical Geometry: Taught mathematical techniques and applications in engineering problems.

Applied Physics: Explained the core principles of physics relevant to mechanical systems and their applications.

Powerplants Engineering: Delivered lectures on Rankine cycle, Reheat cycle, Regenerative cycle, combined cycle, boiler engineering, nuclear Powerplants, etc.

Linear Algebra & Differential Equation: Taught Linear combinations, vector spaces, Echelon form, Reduced echelon form, Gaussian elimination, Gauss' Jordan elimination, Cramer's rule, and basics of Differential Equations.

Administrative Responsibilities:

Deputy Coordinator, Mechanical Engineering Final Year Projects Office: Assisted in managing final year projects, ensuring timely submissions, and facilitating project reviews.

Coordinator, Community Services Program: Organized and managed student participation in community service initiatives, aligning projects with learning outcomes.

Member, Outcome-based Education Program Team: Contributed to designing and implementing OBE methodologies for course curriculum and assessments.

Member, Engineering, Health & Safety Committee: Worked to improve safety standards and ensure compliance with health and safety regulations within the engineering department.

Faculty Advisor, ASHRAE Students Chapter (DSU): Guided students in participating in ASHRAE activities, projects, and networking opportunities within the HVAC&R industry.

## ● **EDUCATION AND TRAINING**

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01/2021 – 04/2024 Karachi, Pakistan

**MASTER OF ENGINEERING (MECHANICAL ENGINEERING)** DHA Suffa University

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Website <https://www.dsu.edu.pk/> | Level in EQF EQF level 7

12/2015 – 08/2019 Karachi, Pakistan

**BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING)** NED University of Engineering & Technology

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Website <https://www.neduet.edu.pk/> | Level in EQF EQF level 6

09/2013 – 06/2015 Karachi, Pakistan

**H.S.C. (PRE-ENGINEERING)** Adamjee Govt Science College

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Level in EQF EQF level 4

Level in EQF EQF level 3

## ● LANGUAGE SKILLS

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Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	B2	B2	B2

*Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user*

## ● SKILLS

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Microsoft Word | Microsoft Excel | Microsoft Powerpoint | MATLAB | System Advisor Model | AutoCAD | Python | RetScreen Expert

## ● HONOURS AND AWARDS

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2016

**Autodesk Certified AutoCAD Expert Autodesk, Inc. – Autodesk**

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2018

**Participant in Seventeenth World Wind Energy Conference – World Wind Energy Association**

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2020

**Developing future leaders: The role of reflection in the classroom – DHA Suffa University**

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