| | | |
|---|---|---|
| | **Kingdom of Saudi Arabia**<br>**Ministry of Education**<br>**King Abdulaziz University**<br>**College of Engineering**<br>**Mechanical Engineering Department** | |

**PhD admission exam**

**Mechanical Engineering/ Applied Mechanics**

**Thursday 7th May 2026 G (10:00 am– 12:00 pm)**

**Department meeting room (24F15) Engineering building.**

The exam is an in- the-class **open book** exam that covers three areas: Dynamics, Mechanics of Materials, and Vibrations. The exam aims to assess the student's ability to solve, analyse and discuss problems in the following fields.

## References

i) **Dynamics (of rigid bodies):**

- R.C. Hibbeler, Engineering Mechanics-Dynamics, Pearson, any edition.
- J.L. Meriam & L.G. Kraige, Engineering Mechanics-Dynamics, Wiley, any edition.

ii) **Mechanics of Materials:**

- F.P. Beer et al., Mechanics of Materials, McGraw-Hill, any edition.
- R.C. Hibbeler, Mechanics of Materials, Pearson, any edition.

**iii) Vibrations:**

- S.A. Rao, Mechanical Vibrations, Pearson, any edition

**For more information: Prof. Mohamed Eltaher (meltaher@kau.edu.sa) office 24E33.**

| | | |
|---|---|---|
| | **Kingdom of Saudi Arabia**<br>**Ministry of Education**<br>**King Abdulaziz University**<br>**College of Engineering**<br>**Mechanical Engineering Department** | |

**PhD admission exam**

**Mechanical Engineering/ Mechanical Design**

**Thursday 7th May 2026 G (10:00 am– 12:00 pm)**

**Department meeting room (24F15) Engineering building.**

The exam is an in- the-class **open book** exam that covers three areas: Dynamics, Mechanics of Materials, and Design. The exam aims to assess the student's ability to solve, analyse and discuss problems in the following fields.

## References

i) **Dynamics (of rigid bodies):**

- R.C. Hibbeler, Engineering Mechanics-Dynamics, Pearson, any edition.
- J.L. Meriam & L.G. Kraige, Engineering Mechanics-Dynamics, Wiley, any edition.

ii) **Mechanics of Materials:**

- F.P. Beer et al., Mechanics of Materials, McGraw-Hill, any editon.
- R.C. Hibbeler, Mechanics of Materials, Pearson, any edition.

**iii) Design:**

- R.G. Budynas, and K.J. Nisbett, Shigley's Mechanical Engineering Design, McGraw-Hill, any edition.

**For more information: Prof. Mohamed Eltaher (meltaher@kau.edu.sa) office 24E33.**

| | | |
|---|---|---|
| | **Kingdom of Saudi Arabia**<br>**Ministry of Education**<br>**King Abdulaziz University**<br>**College of Engineering**<br>**Mechanical Engineering Department** | |

**PhD admission exam**

**Mechanical Engineering/ Manufacturing and Materials**

**Thursday 7th May 2026 G (10:00 am– 12:00 pm)**

**Department meeting room (24F15) Engineering building.**

The exam is an in- the-class **open book** exam that covers three areas of Manufacturing Processes, Material Removal Processes and Metrology & Quality Control. The exam aims to assess the student's ability to solve, analyse and discuss problems in the following fields.

**References**

i) **Manufacturing Processes (Casting, Metal Forming, Welding, Heat Treatment):**

- Fundamentals of Modern Manufacturing: Materials, Processes, and Systems, Mikell P. Groover, Any addition, Wiley.
- Manufacturing Engineering and Technology, Serope Kalpakjian, Any edition, Prentice Hall.
- MENG 332 Lecture Notes. (Scan the below QR to download)

ii) **Material Removal Processes:**

- Fundamentals of Modern Manufacturing: Materials, Processes, and Systems, Mikell P. Groover, Any addition, Wiley.
- Manufacturing Engineering and Technology, Serope Kalpakjian, Any edition, Prentice Hall.
- MENG 434 Lecture Notes. (Scan the below QR to download)

**iii) Metrology & Quality Control:**

- Fundamentals of Dimensional Metrology, Dotson, Harlow & Thompson, any edition, Delmar Cengage Learning
- Quality Improvement, D. H. Besterfield, any edition, Pearson.
- MENG 436 Lecture Notes. (Scan the below QR to download)

MENG 332 L.N

MENG 434 L.N

MENG 436 L.N

**For more information: Prof. Mohamed Eltaher (meltaher@kau.edu.sa) office 24E33.**