

الرقم:
التاريخ:
المرفقات:



المملكة العربية السعودية
جامعة الملك عبدالعزيز
كلية الهندسة
قسم الهندسة الكهربائية وهندسة الحاسبات

Postgraduate Admission Exam (2026/2027 Academic year)

Date and Time: Thursday, May 7th, 2026 (1:00 pm – 2:30 pm)

Location: Rooms 114, 115, and 117, Building 41A, College of Engineering.

The exam is a closed-book assessment covering multiple subject areas based on the program you have applied to within electrical engineering, including Computer Engineering, Communications and Electronics Engineering, Biomedical Engineering, and Power and Machines Engineering.

Important note: Applicants are required to bring a pen, calculator, and any other stationery items they may need during the exam. The exam aims to assess the student's ability to solve, analyse, and discuss problems in the following fields:

Topics	References	Programs
<ul style="list-style-type: none">DC & AC Steady State Circuit AnalysisLaplace TransformIdeal Op-AmpsIdeal TransformersFourier transform & Fourier Series	<ul style="list-style-type: none">Fundamentals of Electric Circuits 7th Edition	All Programs
<ul style="list-style-type: none">Signals & SystemsTransfer FunctionsSampling	<ul style="list-style-type: none">Modern Digital and Analog Communication 5th Edition	All Programs
<ul style="list-style-type: none">Models, Biasing, and Performance of Discrete Devices	<ul style="list-style-type: none">Power Electronics 1st Edition by Daniel HartA. S. Sedra, K. C. Smith, T. C. Carusone, and V. Gaudet, Microelectronic Circuits, 8th Edition, 2019	All Programs
<ul style="list-style-type: none">Logic Gates and CircuitsLogic MinimizationFlip-flops & Counters	<ul style="list-style-type: none">Digital Design: With an Introduction to the Verilog HDL, VHDL, and System Verilog 6th Edition	All except Power and Machines Engineering
<ul style="list-style-type: none">Matrices & Matrix Operations in MATLABConditional Statements & Loops in MATLAB	<ul style="list-style-type: none">Introduction to MATLAB for Engineers 3rd Edition	All Programs
<ul style="list-style-type: none">Electrical Instrumentation & Measurements	<ul style="list-style-type: none">Hughes Electrical & Electronic Technology 12th Edition	All Programs
<ul style="list-style-type: none">Classes & ObjectsInheritance and polymorphism	<ul style="list-style-type: none">Introduction to Java Programming and Data	Computer Engineering Only

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	Structures, 13th edition By Y. Daniel Liang	
<ul style="list-style-type: none">Basics of Computer OrganizationBasics of Operating SystemsBasics of Computer Networks	<ul style="list-style-type: none">Computer Organization And Design, Fifth Edition. The Hardware Software Interface, by HennessyOperating System Concepts Tenth Edition, by Abraham SilberschatzComputer Networks, 6th Edition, by Andrew Tanenbaum	Computer Engineering Only
<ul style="list-style-type: none">Basic Modulation & Demodulation Concepts Multiplexing	<ul style="list-style-type: none">B. P. Lathi and Z. Ding, Modem Digital and Analog Communication Systems. Int. 4th Ed., Oxford Univ. Press, 2010.	Electronics & Communications Engineering only
<ul style="list-style-type: none">Communication Systems	<ul style="list-style-type: none">Theodore S .Rappaport , Wireless Communications , principles and practice , 2nd Ed., Prentice -Hall , 2002.	Electronics & Communications Engineering only
<ul style="list-style-type: none">Anatomy and Physiology	<ul style="list-style-type: none">Human Physiology: From Cells to Systems, 9th Edition by Lauralee Sherwood, CENGAGE Learning Custom Publishing (2016), ISBN-13: 978-1285866932.	Biomedical Engineering only
<ul style="list-style-type: none">Single and three phase circuit analysis.Complex PowerTransmission Line Parameters (Resistance, Inductance, and Capacitance)Transmission Line Modelling (Short, Medium, and Long Transmission Lines)Transformer Modelling.Per Unit SystemSymmetrical three phase short circuit analysisMagnetic circuitsTransformerDC machinesElectromechanical conversionControl of DC Moter	<ul style="list-style-type: none">Sadaat, Hadi. "Power System Analysis', 2002." McGraw Hill. Milwaukee, WA (2004)Electrical Machines with Matlab , third edition by Gonen, Turan CRC, 2020E. Fitzgerald and Steven D Electric Machinery, any edition	Power Systems and Machines Engineering only