

FE Exam Study Schedules					
Topic	Start Days	Duration	Start Date	End Date	PSU Scheduled NOTE
1. Mathematics 11–17 A. Algebra and trigonometry B. Complex numbers C. Discrete mathematics D. Analytic geometry E. Calculus (e.g., differential, integral, single-variable, multivariable) F. Ordinary differential equations G. Linear algebra H. Vector analysis	0	7	1/10/2021	1/17/2021	Winter 2021 Week 2
2. Probability and Statistics 4–6 A. Measures of central tendencies and dispersions (e.g., mean, mode, standard deviation) B. Probability distributions (e.g., discrete, continuous, normal, binomial, conditional probability) C. Expected values (e.g., binomial, normal)	7	7	1/17/2021	1/24/2021	
3. Ethics and Professional Practice 4–6 A. Codes of ethics (e.g., professional and technical societies, NCEES Model Law and Model Rules) B. Intellectual property (e.g., copyright, trade secrets, patents, trademarks) C. Safety (e.g., grounding, material safety data, PPE, radiation protection)	14	7	1/24/2021	1/31/2021	
4. Engineering Economics 5–8 A. Time value of money (e.g., present value, future value, annuities) B. Cost estimation C. Risk identification D. Analysis (e.g., cost-benefit, trade-off, break-even)	21	7	1/31/2021	2/7/2021	
5. Properties of Electrical Materials 4–6 A. Semiconductor materials (e.g., tunneling, diffusion/drift current, energy bands, doping bands, p-n theory) B. Electrical (e.g., conductivity, resistivity, permittivity, magnetic permeability, noise) C. Thermal (e.g., conductivity, expansion)	28	7	2/7/2021	2/14/2021	
6. Circuit Analysis (DC and AC Steady State) 11–17 A. KCL, KVL B. Series/parallel equivalent circuits C. Thevenin and Norton theorems D. Node and loop analysis E. Waveform analysis (e.g., RMS, average, frequency, phase, wavelength) F. Phasors G. Impedance	35	7	2/14/2021	2/21/2021	
7. Linear Systems 5–8 A. Frequency/transient response B. Resonance C. Laplace transforms D. Transfer functions	42	7	2/21/2021	2/28/2021	
8. Signal Processing 5–8 A. Sampling (e.g., aliasing, Nyquist theorem) B. Analog filters C. Digital filters (e.g., difference equations, Z-transforms)	49	7	2/28/2021	3/7/2021	Skip 3/7/2020 to 3/21/2020 For Finals

9. Electronics 7–11 A. Models, biasing, and performance of discrete devices (e.g., diodes, transistors, thyristors) B. Amplifiers (e.g., single-stage/common emitter, differential, biasing) C. Operational amplifiers (e.g., ideal, nonideal) D. Instrumentation (e.g., measurements, data acquisition, transducers) E. Power electronics (e.g., rectifiers, inverters, converters)	56	14	3/21/2021	4/4/2021	Take Two Weeks for PSU_Springbreak
10. Power Systems 8–12 A. Power theory (e.g., power factor, single and three phase, voltage regulation) B. Transmission and distribution (e.g., real and reactive losses, efficiency, voltage drop, delta and wye connections) C. Transformers (e.g., single-phase and three-phase connections, reflected impedance) D. Motors and generators (e.g., synchronous, induction, dc)	70	7	4/4/2021	4/11/2021	
11. Electromagnetics 4–6 A. Electrostatics/magnetostatics (e.g., spatial relationships, vector analysis) B. Electrodynamics (e.g., Maxwell equations, wave propagation) C. Transmission lines (high frequency)	77	7	4/11/2021	4/18/2021	
12. Control Systems 6–9 A. Block diagrams (e.g. feedforward, feedback) B. Bode plots C. Closed-loop response, open-loop response, and stability D. Controller performance (e.g., steady-state errors, settling time, overshoot)	84	7	4/18/2021	4/25/2021	
13. Communications 5–8 A. Basic modulation/demodulation concepts (e.g., AM, FM, PCM) B. Fourier transforms/Fourier series C. Multiplexing (e.g., time division, frequency division, code division) D. Digital communications	91	7	4/25/2021	5/2/2021	
14. Computer Networks 4–6 A. Routing and switching B. Network topologies (e.g., mesh, ring, star) C. Network types (e.g., LAN, WAN, internet) D. Network models (e.g., OSI, TCP/IP) E. Network intrusion detection and prevention (e.g., firewalls, endpoint detection, network detection) F. Security (e.g., port scanning, network vulnerability testing, web vulnerability testing, penetration testing, security triad)	98	7	5/2/2021	5/9/2021	
15. Digital Systems 8–12 A. Number systems B. Boolean logic C. Logic gates and circuits D. Logic minimization (e.g., SOP, POS, Karnaugh maps) E. Flip-flops and counters F. Programmable logic devices and gate arrays G. State machine design H. Timing (e.g., diagrams, asynchronous inputs, race conditions and other hazards)	105	7	5/9/2021	5/16/2021	
16. Computer Systems 5–8 A. Microprocessors B. Memory technology and systems C. Interfacing	112	7	5/16/2021	5/23/2021	
17. Software Engineering 4–6 A. Algorithms (e.g., sorting, searching, complexity, big-O) B. Data structures (e.g., lists, trees, vectors, structures, arrays) C. Software implementation (e.g., iteration, conditionals, recursion, control flow, scripting, testing)	119	7	5/23/2021	5/30/2021	GOOD LUCK EVERYONE!!! Take sometimes to review the stuff before you go take the Exams