

<b>MICROELETRÔNICA EM RADIOFREQUÊNCIA</b>	
OBRIGATORIA:	Não
CARGA HORÁRIA:	68 horas
NÚMERO DE CRÉDITOS:	4
EMENTA:	Arquiteturas RF de telefones móveis e portáteis; Definição e ordem de grandezas de características RF: NF (figura de ruído), IP, ACPR; Amplificadores de Baixo ruído RF; Amplificadores de Potência RF; Osciladores; Misturadores; Duplexadores; Chaves eletrônicas RF; Tecnologias de Circuitos Integrados RF; Modelagem de componentes passivos; Modelagem de componentes ativos.
BIBLIOGRAFIA:	<ol style="list-style-type: none"> <li>1. RF Microelectronics, Behzad Razavi, Prentice Hall Communications Engineering;</li> <li>2. The Design of CMOS Radio-Frequency Integrated Circuits, Thomas H. Lee, Cambridge University Press;</li> <li>3. RFID Handbook, Radio-Frequency Identification Fundamentals and Applications, Klaus Finkenzeller, John Wiley and Sons LTD.</li> <li>4. Microwave and Wireless Synthesizers, Ulrich L. Rohde, John Wiley and Sons;</li> <li>5. Microwave Transistor Amplifiers, Analysis and Design, Guillermo Gonzalez, Prentice Hall;</li> <li>6. High-Frequency Analog Integrated Circuit Design, Ravender Goyal, Wiley Series in Microwave and Optical Engineering;</li> <li>7. Principles of Microwave Technology, Stephen C. Harsany, Prentice Hall;</li> <li>8. Radio-Frequency Microelectronic Circuits for Telecommunication Applications, Yannis E. Papananos, Kluwer Academic Publishers;</li> <li>9. CMOS Design, Layout and Simulation; R. Jacob Baker, Harry W. Li, David Boyce, IEEE Press Series on Microelectronic Systems;</li> <li>10. Low-Power CMOS Design for Wireless Transceivers; Alireza Zolfaghari; Kluwer Academic Publishers;</li> <li>11. The RF and Microwave Circuit Design Cookbook; Stephen A. Maas, Artech House;</li> <li>12. CMOS Wireless Transceiver Design; Jan Crols and Michiel Steyaert</li> </ol>