

Course structure:

MRes in Photonic and Electronic Systems

Academic year:
2025-26

Optional module: Components and Devices 15 credits each Choose one	Optional module: Systems 15 credits each Choose one	Elective modules: 15 credits each Choose two	Optional module: Business 15 credits each Choose one	Generic Skill Development (compulsory, as indicated)
Advanced Photonic Devices UCL (ELEC0109) RF Circuits and Devices UCL (ELEC0115) Analogue CMOS Integrated Circuit Design and Applications UCL (ELEC0131) Biosensors and Bioelectronics CAMB (4I14) Very Large-Scale Integration CAMB (4B28)	Optical Transmission Networks UCL (ELEC0049) Photonic Subsystems UCL (ELEC0078) Photonic Systems CAMB (4B11) Optical Fibre Communication CAMB (4B23) Wireless Communication CAMB (4B29)**	Broadband Communications Lab UCL (ELEC0050) Physics and Optics of Nano-structures UCL (ELEC0057) Wireless Communications Principles UCL (ELEC0104)** Broadband Technologies and Components UCL (ELEC0108) Internet of Things UCL (ELEC0130) Nanoscale Processing and Characterisation for Advanced Devices UCL (ELEC0031) Quantum and Nanotechnology CAMB (4B5) Advanced Information Theory and Coding CAMB (4F5) Computer Vision CAMB (4F12) Probabilistic Machine Learning CAMB (4F13)	Telecommunication Business Environment UCL (ELEC0094) Management of Technology CAMB (4E4)	All students: Responsible Innovation (RRI) self-paced learning and workshop UCL students only: Transferrable Skills – Masters of Research in Photonics UCL (ELEC0143) 15 credits Cambridge students only: Research Development Course
Module descriptions are available online: UCL module catalogue https://www.ucl.ac.uk/module-catalogue/ Cambridge module catalogue http://teaching.eng.cam.ac.uk/node/3003			Mini-projects 45 credits each	Seminars & events attendance required
			Mini project 1 (Nov-May) Mini project 2 (June-Aug)	Industry Day (annual) CDT Seminar series (monthly, Nov-July) UCL Festival of Research and poster display (annual)



Programme administrators:

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