



Master Programs

Please do not exceed one page for all the information

Master Program	Microwave
Master Type	<input type="checkbox"/> M1+ M2 Professional <input type="checkbox"/> M2 Professional <input checked="" type="checkbox"/> M2 Research
Teaching Language	<input type="checkbox"/> English <input type="checkbox"/> French <input checked="" type="checkbox"/> Mixed - English & French
Place of Teaching (Campus)	<input checked="" type="checkbox"/> Hadat <input type="checkbox"/> Fanar <input type="checkbox"/> Tripoli <input type="checkbox"/> Nabatieh
About the Program	<p>The microwave technology application has benefited mankind in many ways. Worldwide communications over the microwave links, both terrestrial and satellite based, are common-place. Technologies that started out in expensive military and commercial systems have filtered down to affordable items for the individual consumer, starting with microwave oven to the cellular telephone.</p> <p>And from the design engineer's side, our ability to model, design, build, and test practical microwave hardware has advanced incredibly, moving from hand drawn Smith charts to the common place personal computer.</p> <p>We are also progressing outward in the frequency spectrum. We have always been pushing to make use of higher frequencies. Now we are also moving lower to meet the upward shift in the traditional RF world.</p> <p>Designers in the digital world came to understand they need to learn our secrets as clock frequencies continue to increase. All of these aspects will be covered in this newly established master program</p>
Program Learning Outcomes	<ul style="list-style-type: none"> • A good foundation in the fundamental concepts and theory of microwave engineering • Ability to explore the world of Electromagnetic practical applications • An insight into current trends and development of the field of EM. • Deep dive for practical experience in system, circuit, device and chip level design, analysis and simulation.
Fields of Work	<ul style="list-style-type: none"> • design, development, maintenance and testing of RF and microwave components and systems. • 5G and 6G Wireless communication technology and satellite communication systems • Remote sensing RADARs and medical equipment • Products Electromagnetic compatibility and Immunity testing. • Research and development position to improve existing technologies
Admission Requirements	<p>GPA: Minimum GPA of 55/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University</p> <p>Major: <input type="checkbox"/> Chemistry <input type="checkbox"/> Biochemistry <input type="checkbox"/> Animal Biology <input type="checkbox"/> Plant Biology <input type="checkbox"/> Math <input type="checkbox"/> Computer Science <input checked="" type="checkbox"/> Electronics <input checked="" type="checkbox"/> Physics <input checked="" type="checkbox"/> Hydrodynamics <input checked="" type="checkbox"/> Electrical Engineering <input checked="" type="checkbox"/> Communication Engineering <input checked="" type="checkbox"/> Material Sciences </p>
Coordinator of Master Program	<p>Dr.-Ing. Hussam Ayad</p> <p>Contact information: UL Email address: hayad@ul.edu.lb Alternative email: xxx@xxx.com Phone number (<i>optional</i>): +961- 76 - 764116 </p>