



## Master Programs

Master Program	<b>Information Systems and Data Intelligence (ISDI)</b> <b>Systèmes d'Information et Intelligence des Données</b>
Master Type	<input type="checkbox"/> M1+ M2 Professional <input type="checkbox"/> M2 Professional <input checked="" type="checkbox"/> M2 Research
Teaching Language	<input checked="" type="checkbox"/> English <input type="checkbox"/> French <input 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 ISDI master program is deeply rooted in the evolving domains of Big Data and Artificial Intelligence (AI), which continue to attract significant interest from both academia and industry. The program's objective is to develop exceptional Data Intelligence scientists equipped with the advanced quantitative and technical skills necessary to tackle complex data-centric challenges. In response to the rapid advancements in AI, the ISDI curriculum now includes a focus on generative AI and large language models (LLMs). These cutting-edge technologies are transforming the landscape of data analysis and decision-making. Generative AI enables the creation of new, synthetic data from existing datasets, enhancing the ability to model, predict, and understand complex phenomena.</p> <p>By integrating these technologies, the ISDI program ensures that graduates are not only adept at using current AI tools but also at pioneering new methodologies in data intelligence.</p>
Program Learning Outcomes	<p>Ability to apply a diverse tools and methods from several disciplines to extract meaningful information from the massive deluge of data continuously generated from industrial information systems, internet-of-things devices, and social media. Specifically, they will demonstrate proficiency in:</p> <ul style="list-style-type: none"> <li>• <b>Intelligent Cooperative/Collaborative Information Systems.</b></li> <li>• <b>Big Data Analytics, Machine Learning and Deep Learning:</b> Applying advanced algorithms to develop intelligent systems.</li> <li>• <b>Generative AI and Large Language Models (LLMs):</b> Leveraging cutting-edge technologies to generate synthetic data, enhance predictive models, and develop sophisticated natural language processing applications.</li> </ul> <p>These skills enable graduates to contribute towards a more connected and smarter world by driving innovation in data intelligence and delivering end-to-end solutions.</p>
Fields of Work	<p>Earning this master's degree opens various opportunities in both academic and industrial sectors. Graduates will be well-prepared to pursue a variety of career paths, including:</p> <ul style="list-style-type: none"> <li>• <b>PhD Programs:</b> leading to advanced research roles and professorships in prestigious universities, engineering schools, or Institutes of Science and Technology.</li> <li>• <b>Teaching and Research Teams:</b> Joining academic or industrial research groups to contribute to cutting-edge developments in data science, AI, and related fields.</li> <li>• <b>Data Engineering and Data Science:</b> Dealing with data systems and architectures to support data analytics and business intelligence.</li> <li>• <b>Generative AI and LLM Development:</b> Specializing in the creation and application of generative models and LLMs for innovative solutions in various industries.</li> <li>• <b>Leadership in Industry:</b> Leading teams or projects in consulting, strategic planning, internet technologies, decision-making, and data analytics/intelligence.</li> <li>• <b>R&amp;D Engineering:</b> Working as R&amp;D engineers, leading projects, and innovating new technologies in both industrial and academic settings.</li> <li>• <b>Senior Management:</b> Occupying high-level positions such as heads of R&amp;D projects, chief data officers, strategic initiatives, and technology integration.</li> </ul> <p>Graduates equipped with skills in generative AI and LLMs will be highly sought after for their ability to drive innovation and create transformative solutions, positioning them at the forefront of the data intelligence and AI revolution.</p>
Admission Requirements	<p><b>GPA:</b></p> <p>Minimum GPA of 55/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University</p> <p><b>Major:</b></p> <p><input type="checkbox"/> Chemistry <input type="checkbox"/> Biochemistry <input type="checkbox"/> Animal Biology <input type="checkbox"/> Plant Biology <input type="checkbox"/> Math <input checked="" type="checkbox"/> Computer Science <input type="checkbox"/> Electronics <input type="checkbox"/> Physics <input checked="" type="checkbox"/> Master (M2) in MIS</p>
Coordinator of Master Program	<p><b>Pr. Mohamed DBOUK</b> <b>Contact information:</b> UL Email address: <a href="mailto:mdbouk@ul.edu.lb">mdbouk@ul.edu.lb</a> Alternative email: <a href="mailto:dbouk.mohamed@gmail.com">dbouk.mohamed@gmail.com</a> Phone number (<b>optional</b>): +961- 03 - 851283</p>