MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

<table>
<tr><td colspan="4" align="center">Module Information
معلومات المادة الدراسية</td></tr>
<tr><td>Module Title</td><td colspan="2" align="center"><strong style="color:red">Probability and Statistics</td><td>Module Delivery</td></tr>
<tr><td>Module Type</td><td colspan="2" align="center">Core</td><td rowspan="4">☒ Theory
☒ Lecture
☐ Tutorial
☐ Practical
☐ Seminar</td></tr>
<tr><td>Module Code</td><td colspan="2" align="center"><strong style="color:red">It 201</td></tr>
<tr><td>ECTS Credits</td><td colspan="2" align="center">8</td></tr>
<tr><td>SWL (hr/sem)</td><td colspan="2" align="center"><strong style="color:red">200</td></tr>
<tr><td>Module Level</td><td>2</td><td>Semester of Delivery</td><td>1</td></tr>
<tr><td>Administering Department</td><td>Computer science</td><td>College</td><td>Computer science and information technology</td></tr>
<tr><td>Module Leader</td><td>Mayada Mahdi hussien</td><td>e-mail</td><td>Maymaty6@gmail.com</td></tr>
<tr><td>Module Leader's Acad. Title</td><td>Ass.lech</td><td>Module Leader's Qualification</td><td>Ph.D.</td></tr>
<tr><td>Module Tutor</td><td>Name (if available)</td><td>e-mail</td><td>E-mail</td></tr>
<tr><td>Peer Reviewer Name</td><td>Name</td><td>e-mail</td><td>E-mail</td></tr>
<tr><td>Scientific Committee Approval Date</td><td>01/06/2023</td><td>Version Number</td><td>1.0</td></tr>
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<tr><td colspan="4" align="center">Relation with other Modules
العلاقة مع المواد الدراسية الأخرى</td></tr>
<tr><td>Prerequisite module</td><td>Mathematics of computing</td><td>Semester</td><td>1</td></tr>
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	Module Aims, Learning Outcomes and Indicative Contents
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	1. It gives the student a broader idea of the possibility of things happening . 2. The probability of things gives more opportunity for imagination. 3. The moment- generating function gives him more opportunity to deal with the derivative of the moment- generating function. 4. The student will be qualified in the next stage to deal with probability and statistics, especially in the subject of simulation .
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	3. Understand the vocabulary of probability and statistics . 4. Understanding the nature of statistics as an integrated system of knowledge. 5. Developing student's statistical concepts. 6. An attempt to reach the concepts of probability and statistics . 7. The ability to solve complex statistical problems.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A – permutations and combinations Permutations mean dealing with ordered things, but harmonics, the order is unimportant. Part B- Probability Probability is a measure of the possibility of an event occurring. Probability is measured as a number between zero and one, where zero indicates impossibility and one indicates certainty. The higher the probability of an event, the greater the possibility of that event occurring. Part C- Distributions Connected and discreet distributions and how to deal with them.

	Learning and Teaching Strategies
	استراتيجيات التعلم والتعليم
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.