

**University of Al-Anbar**

**College of Pharmacy**

**Department of Pharmaceutics**

Title of the course: *Pharmaceutical Calculation* Course number: **128**

Level: 1<sup>st</sup> Class, 2<sup>nd</sup> Semester

Credit hours: **Theory 2 hours      Laboratory 1 hour**

Tutors:

Reference text: *Pharmaceutical Calculations by Stoklosa; Latest edition.*

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**Objectives:** It involves computation of pharmaceutical ingredients, dosage forms, pharmaceutical formulations of extemporaneous compounding, and biological parameters of drug substances. The course teaches calculations for dilution and concentration of different types of liquids and those involved in preparing isotonic solutions, electrolyte solutions and intravenous admixtures.

<b>No</b>	<b>Lecture title</b>	<b>hours</b>
1.	Dilution and concentration of pharmaceutical preparations.	10
2.	Isotonic solutions.	6
3.	Electrolyte solutions (milliequivalents, millimoles and milliosmoles).	6
4.	Constituted solutions, I.V admixtures and flow rate calculations.	8