

**Entrance exam program 2023/2024**

**GRADE 11 TO 12 SE**

**MATHS** from second secondary to 12 SE

2nd degree equations

- Solving an equation of the second degree- real roots of an equation
- Solving second-degree inequalities
- Solving systems of inequalities

Functions

- Studies of limits at infinity and at a number
- Derivative: derivative formulas - tangent equation
- Study and graph of polynomial and rational functions
- Symmetry element of a function
- Graphical study of a function (solving equations -inequalities)

Probability

- Calculate the number of arrangements, permutations and p-lists
- Recognize vocabulary (random experience- universe - event- event and – event or- contrary event – incompatible event)
- Calculation of the probability of an event
- Morgan's formula

Statistics

- Continuous variable – graphical representation.
- Finding the modal class and estimating the mode
- Median class search and median calculation (per graph)
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**اللغة العربية:**

- الإنسان والحب العلاقة الوجدانية بين الرجل والمرأة

**فلسفة :**

- الحضارة
- المنهجية العلمية

## إجتماع :

المحور الثالث: الشاب والمجتمع.

الفصل الأول: مؤسسات التحصيل العلمي والاختصاص مؤسسات العمل والانتاج + البطاقة التطبيقية.

المحور الرابع: مشكلات اجتماعية.

تعريف الفقر / أشكال الفقر / تعريف البطالة/ أشكال البطالة + الحلول لمواجهة الفقر والبطالة.

## اقتصاد

الاطراف الفاعلة اقتصاديا

ميزان المدفوعات

سياسة التجارة الخارجية

تعريف المصرف ووظائفه

انواع المصارف

خلق النقد والسياسة النقدية

## English

### **Reading:**

- Understand /Read information given through language discourse pertaining to scientific and professional material.
- Interpret scientific conventions (graphs, tables, diagrams, charts, etc.)
- Use learned prefixes, suffixes and stems in the recognition and formation of new words.
- Guess meanings from context.
- Identify thematic relations between paragraphs.

### **Written Communication: Demonstrate ability to write effectively.**

- Vary the linguistic complexity and word choice according to an audience.
- Use the words, expressions, and structures appropriate for topics and tasks.
- Use technical lexis for a variety of scientific situations (proportions, shapes, properties, states, equivalence, actions, etc.).
- Use grammatical components most pertinent to scientific discourse (such as the passive voice, conditionals, verb tenses, articles and prepositions, complex sentence structures, etc.).