1404 - Plan of the Year

Objective

This year we want to become a dominant expert in some areas including #foundations-of-mathematics #general-relativity and #computer-science. We would dive into these by road-maps, and move forward by learning more concepts.

Beside these we have tasks and projects that we want to initialize and officially release in the next year. These include #rebranding-isk, #mithra, #nukleus-design-language, #isk-manifesto, #kompute, #kosmos, #koncept, #xavier, #music-production, #learning-motion-graphics, #knowledgebase, #dedukt, #knowldge-coin.

Yes this is a dense, hard year. But man aren't we tired of talking to people that won't help anyway? Let's do this once to be kept in history, let's make a master plan.

First Quarter

- **Projects:**
  - *Re-branding ISK*
  - *ISK Manifesto*
  - *Mithra*
  - *Nukleus Design Language Components*
- **Foundations of Mathematics**
  - *Set theory*
  - *First-Order logic and Proof Techniques*
  - *Advance Set Theory, Foundations of Arithmetic*
- **Computer Science**
  - *Algorithms & Kotlin/Java Mastery*
  - *Backend Development & Databases*
  - *System Design, DevOps & Security*
- **Gravitation**
  - *Introduction to General Relativity and the Geometry of Spacetime*
  - *The Einstein Field Equations and Newtonian Limit*
  - *Black Holes and Event Horizons*

Second Quarter

- **Projects**
  - *Kompute*
  - *Kosmos*

    - *Koncept*
    - *Xavier*
    - *Music Projects*
- **Foundations of Mathematics**
    - *Computability & Recursive Functions*
    - *Gödel's Incompleteness Theorems*
    - *Model Theory & Meta-Mathematics*
- **Computer Science**
    - *C/C++ Mastery & OS Concepts*
    - *Computer Graphics & Reverse Engineering*
    - *Game Development & Parallel Computing*
- **Gravitation**
    - *The Dynamics of Spacetime and the Einstein Tensor*
    - *Gravitational Radiation and the Einstein-Hilbert Action*
    - *Cosmology and the Expanding Universe*

Third Quarter

- **Projects**
    - *Dedukt*
    - *Learning Motion Graphics*
    - *Whatever missed from the previous quarters*
- **Foundations of Mathematics**
    - *Introduction to Category Theory*
    - *Advanced Category Theory & Topos Theory*
    - *Type Theory & Constructive Mathematics*
- **Computer Science**
    - *Haskell & Compiler Theory*
    - *Machine Learning & GPU Programming*
    - *Reinforcement Learning & Distributed Computing*
- **Gravitation**
    - *Einstein Equations in the Presence of Matter*
    - *Spacetime Singularities*
    - *Rotating Black Holes and the Kerr Metric*

Fourth Quarter

- **Projects**
    - *Knowledgebase*
    - *Knowledge (Coin)*

- **Foundations of Mathematics**
  - *Advanced Logic & Proof Assistants*
  - *Topos Theory & Structural Mathematics*
  - *Foundations of Physics and Alternative Mathematics*
- **Computer Science**
  - *Kotling Multiplatform & Ethical Hacking*
  - *Blockchain and Advanced System Design*
  - *Final Capstone Project & Compiler Construction*
- **Gravitation**
  - *Geodesics, Metric and Perturbations*
  - *Advanced Topics in Cosmology*
  - *Advanced Topics in Gravitational Physics*