

FAQ For FTER (FTC 11697) 2021 Fall Robotics Class

2021秋季机器人课程问答

Q: Can you give a general introduction about Robotics Class?

可以简单介绍一下机器人课程吗？

A: In general, the popular programs are Frist, EV3 and VEX robotics for students, that are standard AI experiences for kids, and got recognized by the public.

外界比较流行的机器人比赛是 First, EV3 and VEX,这也是目前学生们可以参加并被广泛认可的AI竞赛项目。

Our program will teach students the robotics foundation and control logic, the students can apply their knowledge in any robotics in the future. And also we will organize the students to attend the international robotics championship.

课程将介绍机器人原理和控制逻辑，今后学生可以运用所学知识到任何一个机器人比赛中。同时我们也会免费组织并辅导学生参加国际机器人大赛。

Q: Which language will be used in the class?

上课使用什么语言？

A: We will use block programming similar to Scratch. So we will teach both language & robotics knowledge in the class.

全程英文授课，使用模块化编程语言，类似Scratch，同时介绍相关的语言和机器人知识。

Q: If I have prior experience, how do I know which class is best for him/her?

我以前有过一些编程和机器人方面的知识，如何知道哪个班更适合我？

A: We can set up a 1 on 1 meeting with you to discuss how much you know. You can contact us for more information about this at pzheng111@gmail.com.

我们可以安排1对1的讨论，推荐一个适合你的班级，请邮件联系我们。pzheng111@gmail.com

Q: I heard the class will use VRT as robot simulation software, what are some differences between using VRT and a physical robot?

听说课堂上会使用机器人VRT系统，VRT软件和硬件机器人有哪些区别？

A: There are many advantages to using VRT. It is much cheaper than buying physical hardware, because just the entry-level LEGO Mindstorms kit is >\$300. We can also help students much more easily, because their programming experience will be more standardized.

VRT在使用上优势明显: 价格上远远低于硬件机器人的售价，基础版的LEGO Mindstorms机器人也需要\$300以上。远程教学中，我们可以更方便的指导和帮助学生，编程技巧上也会更加标准化。

Q: How much does VRT cost?

VRT软件的价格？

A: We have a group discount that brings the price for a 1-year license from \$65 down to \$30

我们统一购买的优惠价是\$30,一年的使用期限。

Q: Can we use VRT software beyond robotics class or after the pandemic?

在上课时间外或者疫情过后，VRT系统还有使用价值吗？

A: Yes, you can still use VRT projects to keep programming and learning robotics on your own. VRT includes projects used in the World Robot Olympiad (WRO) competition, so you can prepare on your own. Actually WRO uses VRT for the 2020 international competition.

课外或者恢复正常后，学生首先可以利用VRT系统内的标准附件功能和特性，随时在家做自我编程评估和准备国际机器人大赛。事实上2020国际机器人大赛就使用了VRT软件。

Q: Which OS does VRT support?

VRT支持哪些操作系统？

A: VRT is compatible on Windows 8.1 and up, and Mac High Sierra. It is NOT compatible on Mac Mojave and up.

VRT支持Windows 8.1和以上版本，以及Mac High Sierra，不支持Mac Mojave。

Q: How long will each class be?

每节课的上课时间？

A: We have 10 weekly 1 ½ hour classes with an additional 1 hour of Discord support time every week. So totally it will be 15 hours class time, and 10 hours discord time.

一周一次1.5小时课程，共10周，合计15小时。每周提供1小时discord在线答疑时间，合计10小时。

Q: Are there any age restrictions for Beginner vs Advanced?

初级班和进阶班是否有年龄限制？

A: No specific age restrictions; depends more on programming & Robotics knowledge (especially for Advanced). However, most students who take Beginner are 4th-6th grade.

无特别年龄限制，关键看对编程和机器人知识掌握程度（尤其是进阶班），初级班学生大部分在4-6年级。

Q: What if a student needs more help outside of class?

如果学生课后需要帮助呢？

A: Students can always email us, or attend the weekly discord support times if he or she needs help. All materials are available to students through Google Classroom for independent review if needed.

学生可以直接发邮件给老师，或者参加我们每周的discord答疑时间，全部的课程内容都在谷歌教室。

Q: Can a student skip from Beginner to Advanced?

学生可以不上初级班直接上进阶班吗？

A: Of course, we're very flexible, although the teachers need to feel that it's the right course of action after the interview.

根据学生具体情况，经过面试后老师可以推荐合适的班级。