

также может быть использована при работе с учащимися младших классов. А среды программирования RoboCoS (рис. 3), NXC и LabVIEW (рис. 4) рассчитаны на учащихся от 14 лет и старше [1].

Ниже представлен пример учебного плана элективного курса по конструированию и программированию роботов первого года обучения (автор – ассистент кафедры информатики ФМФ ТПУ О.С. Петесова). Цель курса – изучение основ конструирования и программирования роботов на базе комплекта Lego Mindstorms NXT 2.0. Категория слушателей – учащиеся 6–11-х классов средних образовательных учреждений. Срок обучения – 128 ч на учебный год. Форма обучения – очная. Режим занятий 4 ч в неделю. Курс включает 7 разделов:

1. Введение в робототехнику. Понятие робот. Этапы развития робототехники. Классификация робототехнических конструкций. Основные элементы современных конструкций роботов и их функциональное назначение.

2. Знакомство с конструктором LEGO Mindstorms NXT 2.0. Блок NXT и его функции. Динамик. Экран. Датчики (касания, ультразвуковой, цвета/света). Порты подключения и соединительные кабели. Принципы крепления деталей конструктора.

3. Основы конструирования. Ножицы и механический манипулятор. Механическая передача. Редуктор. Сервопривод. Одномоторная и полноприводная тележка. Тележка с изменением передаточного отношения.

4. Дополнительные датчики и возможности их использования в конструировании роботов. Датчик освещенности. Датчик цвета. Датчик звука. Датчик температуры. Датчик угла наклона. Гироскопический датчик и инфракрасное излучение.

5. Автономное программирование. Понятие алгоритма. Понятие программы. Линейный алгоритм. Постусловие и цикличность. Описание блоков автономного алгоритма. Алгоритм движения по кругу, вперед назад, по квадрату и «восьмеркой». Запуск и отладка программы.

6. Программирование в среде NXT-G. Стартовое окно Lego Mindstorms NXT. Интерфейс программы. Главное меню. Панель команд. Настройка параметров команд. Запуск и отладка программы. Ветвление (блок принятия решения). Цикл с параметром. Цикл с постусловием. Цикл с прерыванием. Подпрограмма. Работа с переменными. Использование блока «случайное число».

7. Решение прикладных задач. Конкурсы, проводимые в России и за рубежом, и их регламент. Подготовка роботов к соревнованиям: движение по черной линии, движение по белой линии, кегельринг, лабиринт, лабиринт с препятствиями, сумо, ступеньки, сортировка. Моделирование, конструирование и программирование роботов по заданным функциональным возможностям.

**Nauka I Obrazovatelnye Tekhnologii Sbornik
Nauchnoanaliticheskikh Materialov Po Srednemu I
Vybhemu Obrazovaniyu**

IM Harris



Nauka I Obrazovatelnye Tekhnologii Sbornik Nauchnoanaliticheskikh Materialov Po Srednemu I Vybbemu Obrazovaniiu:

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Nauka I Obrazovatelnye Tekhnologii Sbornik Nauchnoanaliticheskikh Materialov Po Srednemu I Vybbemu Obrazovaniiu**

In a world inundated with displays and the cacophony of immediate transmission, the profound power and mental resonance of verbal beauty often fade into obscurity, eclipsed by the regular onslaught of sound and distractions. However, set within the musical pages of **Nauka I Obrazovatelnye Tekhnologii Sbornik Nauchnoanaliticheskikh Materialov Po Srednemu I Vybbemu Obrazovaniiu**, a fascinating function of literary beauty that pulses with natural emotions, lies an remarkable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that exciting opus manuals readers on an emotional odyssey, softly exposing the latent possible and profound impact stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main themes, dissect their interesting writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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