 УТВЕРЖДАЮ

2020-2021г.

Е.Л. Путренок

**УЧЕБНЫЙ** **ПЛАН**

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| **№** **п/п** |  | **Общее** **количество** **часов,** **максимальная** **нагрузка** | **Всего** **(часов)** **в** **том** **числе** **аудиторных** | **В** **том** **числе** | | | **Форма** **контроля** |
| **Наименование** **дисциплин** | **Лекций** | **Практи** **ческие** **заняти** **я** **(в** **т.ч.** **Итоговая** **аттестаци** **я)** | **Консу** **льтац** **ионн** **ые** **часы** |
|  | **Обязательные** **модули:** |  |  |  |  |
| **1** | **Робототехника (базовый уровень)** | **80** | **80** | **0** | **80** |  | **Зачет** |
| **ИТОГО:** | | **80** | **80** | **0** | **80** | **0** | Зачет |



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|  | **Обязательные** **модули:** |  |  |  |  |
| **1** | **Робототехника EV3** | **120** | **120** | **0** | **120** |  | **Зачет** |
| **ИТОГО:** | | **120** | **120** | **0** | **120** | **0** | Зачет |



**Утверждаю**

**Путренок Е.Л.**

**2020-2021г.**

**УЧЕБНЫЙ** **ПЛАН**

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| **Наименование** **дисциплин** | **Лекций** | **Практи** **ческие** **заняти** **я** **(в** **т.ч.** **Итоговая** **аттестаци** **я)** | **Консу** **льтац** **ионн** **ые** **часы** |
|  | **Обязательные** **модули:** |  |  |  |  |
| **1** | **Робоcкретч** | **80** | **80** | **0** | **80** |  | **Зачет** |
| **ИТОГО:** | | **80** | **80** | **0** | **80** | **0** | Зачет |



**Утверждаю**

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| **Наименование** **дисциплин** | **Лекций** | **Практи** **ческие** **заняти** **я** **(в** **т.ч.** **Итоговая** **аттестаци** **я)** | **Консу** **льтац** **ионн** **ые** **часы** |
|  | **Обязательные** **модули:** |  |  |  |  |
| **1** | **Скретч-программирование** | **80** | **80** | **0** | **80** |  | **Зачет** |
| **ИТОГО:** | | **80** | **80** | **0** | **80** | **0** | Зачет |



**Утверждаю.**

**Путренок Е.Л.**

**2020-2021г.**

**УЧЕБНЫЙ** **ПЛАН**

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| **Наименование** **дисциплин** | **Лекций** | **Практи** **ческие** **заняти** **я** **(в** **т.ч.** **Итоговая** **аттестаци** **я)** | **Консу** **льтац** **ионн** **ые** **часы** |
|  | **Обязательные** **модули:** |  |  |  |  |
| **1** | **Квадрокоптеры** | **120** | **120** | **0** | **120** |  | **Зачет** |
| **ИТОГО:** | | **120** | **120** | **0** | **120** | **0** | Зачет |

**УТВЕРЖДАЮ:**

\_\_\_\_\_\_\_\_\_\_\_Е.Л. Путренок

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**КАЛЕНДАРНЫЙ** **УЧЕБНЫЙ** **ГРАФИК** **(очная** **форма)**

80 **академ.** ч**ас.** **-** 40 **занятий** **по** 2 академических часа**,** 1 **раз** **в** **неделю,** 10 **месяцев.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **дисциплина** | **Кол-во** | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Всего, час** | | | | **1 месяц** | | | | | **2 месяц** | | | | | **3 месяц** | | | | | **4 месяц** | | | | | **5 месяц** | | | | | **6 месяц** | | | | | **7 месяц** | | | | | **8 месяц** | | | | | **9 месяц** | | | | | **10 месяц** | | | |
|  | **вид** | **час** | 1 | | 2 | 3 | 4 | 5 | | 6 | 7 | 8 | 9 | | 10 | 11 | 12 | 13 | | 14 | 15 | 16 | 17 | | 18 | 19 | 20 | 21 | | 22 | 23 | 24 | 25 | | 26 | 27 | 28 | 29 | | 30 | 31 | 32 | 33 | | 34 | 35 | 36 | 37 | | 38 | 39 | 40 |
| **Робото**  **техника**  **Базовый уровень** | **80** | **лекц** | **0** |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |
|  | **практ** | **80** | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |
| **ИТОГО** | **80** |  |  | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |



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120 **академ.** ч**ас.** **-** 40 **занятий** **по** 3 академических часа**,** 1 **раз** **в** **неделю,** 10 **месяцев.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **дисциплина** | **Кол-во** | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Всего, час** | | | | **1 месяц** | | | | | **2 месяц** | | | | | **3 месяц** | | | | | **4 месяц** | | | | | **5 месяц** | | | | | **6 месяц** | | | | | **7 месяц** | | | | | **8 месяц** | | | | | **9 месяц** | | | | | **10 месяц** | | | |
|  | **вид** | **час** | 1 | | 2 | 3 | 4 | 5 | | 6 | 7 | 8 | 9 | | 10 | 11 | 12 | 13 | | 14 | 15 | 16 | 17 | | 18 | 19 | 20 | 21 | | 22 | 23 | 24 | 25 | | 26 | 27 | 28 | 29 | | 30 | 31 | 32 | 33 | | 34 | 35 | 36 | 37 | | 38 | 39 | 40 |
| **Робото**  **техника**  **EV3** | **120** | **лекц** | **0** |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |
|  | **практ** | **120** | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |
| **ИТОГО** | **120** |  |  | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **дисциплина** | **Кол-во** | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Робоскретч** | **80** | **лекц** | **0** |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |
|  | **практ** | **80** | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |
| **ИТОГО** | **80** |  |  | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |



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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **дисциплина** | **Кол-во** | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **квадрокоптеры** | **120** | **лекц** | **0** |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |
|  | **практ** | **120** | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |
| **ИТОГО** | **120** |  |  | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |