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**МИНИСТЕРСТВО СЕЛЬСКОГО ХОЗЯЙСТВА РОССИЙСКОЙ ФЕДЕРАЦИИ**  
**федеральное государственное бюджетное образовательное учреждение высшего образования**  
**«ЮЖНО-УРАЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»**

УТВЕРЖДАЮ.

Проректор по учебной, воспитательной  
работе и молодежной политике  
ФГБОУ ВО Южно-Уральский ГАУ



С.А. Чичиланова  
2022г.

**РАБОЧАЯ ПРОГРАММА ДИСЦИПЛИНЫ**

**2.1.2 Иностранный язык**

Научная специальность – **4.3.2. Электротехнологии, электрооборудование и  
энергоснабжение агропромышленного комплекса**

Форма обучения – **очная**

Рабочая программа дисциплины «Иностранный язык» (Английский язык) составлена в соответствии с требованиями Федеральных государственных требований (ФГТ), утвержденных приказом Министерства науки и высшего образования Российской Федерации от 20.10.2021г. № 951. Рабочая программа дисциплины предназначена для подготовки научных и научно-педагогических кадров в аспирантуре по научной специальности **4.3.2. Электротехнологии, электрооборудование и электроснабжение агропромышленного комплекса.**

Дисциплина «Иностранный язык» (Английский язык) направлена на подготовку к сдаче кандидатского экзамена.

Настоящая рабочая программа дисциплины составлена в рамках программы аспирантуры и учитывает особенности обучения при инклюзивном образовании лиц с ограниченными возможностями здоровья и инвалидов.

При изучении дисциплины «Иностранный язык» (Английский язык), при проведении текущего контроля успеваемости и промежуточной аттестации аспирантов университет вправе применять электронное обучение, дистанционные образовательные технологии.

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И.о. зав. кафедрой «Социально-гуманитарные дисциплины и русский язык как иностранный»

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Рабочая программа дисциплины одобрена Методической комиссией ФГБОУ ВО Южно-Уральский ГАУ по программам аспирантуры «07» июня 2022г., протокол № 2.

Председатель методической комиссии

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## 1. Планируемые результаты освоения дисциплины

### 1.1. Цель и задачи дисциплины

**Цель дисциплины** - формирование у аспирантов навыков владения иностранным языком как средством профессиональной и межкультурной коммуникации в научно-исследовательской деятельности.

**Основные задачи дисциплины:**

- совершенствование речевых умений и языковых навыков в устной и письменной формах;
- развитие познавательных и исследовательских умений с использованием иностранного языка на основе информационно-коммуникационных технологий;
- развитие навыков поиска и оценки информации на иностранном языке;
- формирование навыков использования языковых средств при создании письменного и устного научного текста на иностранном языке;
- увеличение запаса лексических единиц общего, терминологического и профессионального характера.

### 1.2. Планируемые результаты освоения дисциплины, обеспечивающие освоение программы аспирантуры по научной специальности

В результате освоения дисциплины аспирант должен:

Знать:	1. стилистические особенности представления результатов научной деятельности в устной и письменной форме на иностранном языке;
	2. методы и технологии научной коммуникации на иностранном языке;
Уметь:	1. следовать основным нормам, принятым в научном общении на иностранном языке;
	2. подбирать источники и подготовить научные доклады и презентации на иностранном языке;
Владеть:	1. различными методами, технологиями и типами коммуникаций при осуществлении профессиональной деятельности на иностранном языке;
	2. навыками анализа научных текстов на иностранном языке.

## 2. Объем дисциплины и виды учебной работы

Дисциплина изучается во 2 семестре. Общая трудоемкость дисциплины распределяется по основным видам учебной работы в соответствии с учебным планом, утвержденным Ученым советом ФГБОУ ВО Южно-Уральский ГАУ.

### 2.1. Распределение объема дисциплины по видам учебной работы

Вид учебной работы	Количество часов / ЗЕТ
<b>Контактная работа, всего</b>	<b>108/3</b>
В том числе:	
Лекции (Л)	36/1
Практические занятия (ПЗ)	72/2
<b>Самостоятельная работа (СР)</b>	<b>72/2</b>
<b>Контроль</b>	<b>-</b>
<b>Общая трудоемкость</b>	<b>180/5</b>

## 2.2. Распределение учебного времени по темам

№ п/п	Наименование тем	Всего, час	в том числе			
			контактная работа		СР	контроль
			Л	ПЗ		
1.	Университет: обучение в аспирантуре, научно-исследовательская работа.	18	4	6	8	-
2.	Написание научно-исследовательской работы. Цели и задачи научного исследования.	18	4	6	8	-
3.	Методы научного исследования.	16	2	6	8	-
4.	Основы перевода научной литературы.	18	4	6	8	-
5.	Презентация по теме научного исследования.	28	4	16	8	-
6.	Работа с научной литературой. Аннотация научной статьи.	36	6	20	10	-
7.	Академическое письмо.	24	6	6	12	-
8.	Академическое общение.	22	6	6	10	-
	Контроль	-	-	-	-	-
	Общая трудоемкость	<b>180</b>	<b>36</b>	<b>72</b>	<b>72</b>	-

## 3. Структура и содержание дисциплины

### 3.1. Содержание дисциплины

Освоение программы аспирантуры по научной специальности. Послевузовские программы и учёные степени. Виды программ в послевузовском образовании. Подготовка диссертации на соискание ученой степени. Стратегии предварительного написания научной исследовательской работы: введение в исследовательскую работу, определение темы исследования, определение цели и задач, выбор методов исследования, проведение эксперимента. Основы научного перевода. Лексико-грамматические и стилистические особенности жанров научного стиля. Академическое письмо. Академическое общение. Устные выступления. Презентация.

*Чтение.* Виды чтения: изучающее, ознакомительное, поисковое и просмотровое. Подбор аутентичной литературы на английском языке по своей научной специальности; перевод, аннотирование и анализ прочитанных источников; составление тематических глоссариев.

*Лексика.* Лексический запас - не менее 5500 лексических единиц с учетом вузовского минимума и потенциального словаря, включая примерно 500 терминов профилирующей специальности.

*Грамматика.* Порядок слов в предложении. Сложное предложение: сложносочиненное и сложноподчиненное предложения. Видовременные формы активного залога. Видовременные формы пассивного залога. Функции инфинитива: инфинитив в функции подлежащего, определения, обстоятельства. Причастие I и его функции. Причастие II и его функции. Герундий и его функции. Модальные глаголы и их эквиваленты.

*Письмо.* Составление плана (конспекта) прочитанного, изложение содержания, прочитанного в форме аннотации. Написание реферата по прочитанному и переведенному материалу. Описание собственной научной работы.

*Перевод.* Устный и письменный перевод с иностранного языка на родной язык и с родного на иностранный используется как средство овладения иностранным языком, как прием развития умений и навыков чтения, как наиболее эффективный способ контроля полноты и точности понимания.

### 3.2. Содержание лекций

№ п/п	Темы лекций	Кол-во часов
1.	Классификация и характеристика научных текстов. Лексико-грамматические особенности перевода научных текстов.	4
2.	Приемы и способы перевода научной литературы. Эквивалентность и адекватность перевода.	4
3.	Перевод научной литературы как система. Системный подход. Типология переводческих ошибок.	4
4.	Основы научного перевода: переводческие трансформации, контекстуальные замены, многозначность лексики.	4
5.	Видовременная система английского глагола. Активный залог.	4
6.	Видовременная система английского глагола. Пассивный залог.	4
7.	Академическое письмо.	4
8.	Специфика работы с научной литературой. Лексико-грамматические и стилистические особенности жанров научного стиля изложения в устной и письменной формах.	4
9.	Аннотирование научных статей.	4
	<b>Итого:</b>	<b>36</b>

### 3.3. Содержание практических занятий

№ п/п	Темы практических занятий	Кол-во часов
1.	Обучение в аспирантуре. Проведение научных исследований. Порядок слов в английском предложении.	8
2.	Методы научного исследования. Видовременные формы действительного залога.	8
3.	Презентация научного исследования. Видовременные формы страдательного залога.	8
4.	Написание кандидатской диссертации. Модальные глаголы и их эквиваленты.	6
5.	Аннотирование текстов по научной специальности. Инфинитив и его функции. Инфинитивные конструкции.	8
6.	Реферирование. Причастие I и его функции. Причастие II и его функции.	6
7.	Академическое письмо. Герундий, его формы и функции.	6
8.	Академическое общение. Лексико-грамматические и стилистические особенности жанров научного стиля. Перевод сокращений.	6
9.	Перевод научной литературы по своей научной специальности.	16
	<b>Итого:</b>	<b>72</b>

### 3.4.Виды и содержание самостоятельной работы

#### 3.4.1. Виды самостоятельной работы

Виды самостоятельной работы	Количество часов
Подготовка к практическим занятиям	30
Самостоятельное изучение отдельных тем и вопросов	30
Подготовка к экзамену	12
<b>Итого</b>	<b>72</b>

#### 3.4.2. Содержание самостоятельной работы

№ п/п	Темы самостоятельной работы	Кол-во часов
1.	Проведение научных исследований в аспирантуре. Грамматика: порядок слов в английском предложении.	10
2.	Задачи и цели научного исследования. Грамматика: видовременные формы действительного залога.	6
3.	Презентация по теме научного исследования. Грамматика: видовременные формы страдательного залога.	14
4.	Кандидатская диссертация: определение цели и задач, выбор методов исследования, проведение эксперимента. Грамматика: модальные глаголы и их эквиваленты.	8
5.	Составление аннотаций по научным текстам. Грамматика: инфинитив и его функции; инфинитивные конструкции.	6
6.	Реферирование научных текстов. Грамматика: причастие I и его функции; причастие II и его функции.	6
7.	Академическое письмо. Грамматика: герундий, его формы и функции.	6
8.	Академическое общение. Изучение особенностей жанров научного стиля.	4
9.	Перевод научной литературы по своей научной специальности.	12
	<b>Итого:</b>	<b>72</b>

### 4. Фонд оценочных средств для проведения текущего контроля и промежуточной аттестации

Для установления соответствия уровня подготовки аспирантов требованиям Федеральных государственных требований фонд оценочных средств разработан для текущего контроля успеваемости и проведения промежуточной аттестации аспирантов по дисциплине. Фонд оценочных средств представлен в Приложении №1.

### 5. Основная и дополнительная учебная литература, необходимая для освоения дисциплины

Основная и дополнительная учебная литература имеется в Научной библиотеке и электронной информационно-образовательной среде ФГБОУ ВО Южно-Уральский ГАУ.

### **Основная**

1. Гарагуля С.И. Английский язык для аспирантов и соискателей ученой степени=Englishforpostgraduatestudents: учебник: [16+] / С.И. Гарагуля. – Москва: Владос, 2018. – 337 с. – Режим доступа: по подписке. – URL: <http://biblioclub.ru/index.php?page=book&id=429572>
2. Белоусова, А. Р. Английский язык для студентов сельскохозяйственных вузов : учебник для вузов / А. Р. Белоусова, О. П. Мельчина. — 7-е изд., стер. — Санкт-Петербург : Лань, 2021. — 352 с. — ISBN 978-5-8114-7107-2. — Текст : электронный // Лань : электронно-библиотечная система. — URL: <https://e.lanbook.com/book/155672>

### **Дополнительная**

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3. Никульшина Н.Л. Учись писать научные статьи на английском языке: учебное пособие / Н.Л. Никульшина, О.А. Гливенкова, Т.В. Мордовина; Тамбовский государственный технический университет. – Тамбов: Тамбовский государственный технический университет (ТГТУ), 2012. – 172 с.– Режим доступа: по подписке. – URL: <http://biblioclub.ru/index.php?page=book&id=277911>

## **6. Учебно-методические материалы по освоению дисциплины**

Учебно-методические разработки имеются в Научной библиотеке и электронной информационно-образовательной среде ФГБОУ ВО Южно-Уральский ГАУ:

1. Методические указания по английскому языку для магистрантов и аспирантов всех направлений подготовки очной и заочной форм обучения для активизации самостоятельной работы в процессе обучения [Электронный ресурс] / сост. О. И. Халупо; Южно-Уральский ГАУ, Институт агроинженерии - Челябинск: Южно-Уральский ГАУ, 2019. – 39 с. - Доступ из локальной сети: <http://nb.sursau.ru:8080/localdocs/lang/86.pdf>
2. Тесты по английскому языку для магистрантов и аспирантов всех направлений подготовки очной и заочной форм обучения для формирования и контроля лексических и грамматических навыков [Электронный ресурс] / сост. О. И. Халупо; Южно-Уральский ГАУ, Институт агроинженерии - Челябинск: Южно-Уральский ГАУ, 2019. - 54 с. - Доступ из локальной сети: <http://nb.sursau.ru:8080/localdocs/lang/87.pdf>

## **7. Ресурсы информационно-телекоммуникационной сети «Интернет», информационно-справочные системы, профессиональные базы данных, используемые при осуществлении образовательного процесса по дисциплине, включая перечень лицензионного программного обеспечения**

В Научной библиотеке с терминальных станций предоставляется доступ к базам данных:

1. Единое окно доступа к учебно-методическим разработкам <https://юургау.рф>
2. ЭБС «Лань» <http://e.lanbook.com/>
3. Университетская библиотека online: <http://biblioclub.ru>
4. Научная электронная библиотека <https://elibrary.ru/>



### **Лицензионное программное обеспечение:**

Операционная система специального назначения «AstraLinuxSpecialEdition» с офисной программой LibreOffice; «MyTestXPRro» 11.0; Мой Офис Стандартный; WindowsXPHomeEditionOEMSoftware; Windows 10 HomeSingleLanguage 1.0.63.71; MicrosoftWindowsPRO10 RussianAcademicOLPILicenceNolevelLegalizationGetGenuine; MicrosoftOffice 2010 RussianAcademicOPENILicenceNolevel; Цифровая лаборатория Архимед 4.0 MultiLab 1.4.22 ПО для сбора и обработки данных; KasperskyEndpointSecurity; ПО для автоматизации учебного процесса 1С: Университет ПРОФ 2.1.

### **8. Материально-техническая база, необходимая для осуществления образовательного процесса по дисциплине**

#### **Перечень учебных лабораторий, аудиторий, компьютерных классов:**

Учебные аудитории для проведения занятий семинарского типа, групповых и индивидуальных консультаций, текущего контроля и промежуточной аттестации № 401, 405, 417.

#### **Перечень основного учебно-лабораторного оборудования:**

Ноутбук LENOVO G5045-1 шт.(переносной);  
Магнитофон MP3 MAXWELL MW-4002-1шт. (переносной);  
Телевизор «Samsung» - 1 шт.(ауд 401);  
DVD-плеер «Mystery» - 1 шт.(переносной).

**ФОНД ОЦЕНОЧНЫХ СРЕДСТВ**

для текущего контроля успеваемости и проведения промежуточной аттестации  
аспирантов по дисциплине

**2.1.2. ИНОСТРАННЫЙ ЯЗЫК (Английский язык)**

## 1. Контролируемые результаты освоения дисциплины, обеспечивающие достижения планируемых результатов освоения программы аспирантуры по научной специальности

В результате освоения дисциплины аспирант должен:

Знать:	1. стилистические особенности представления результатов научной деятельности в устной и письменной форме на иностранном языке;
	2. методы и технологии научной коммуникации на иностранном языке;
Уметь:	1. следовать основным нормам, принятым в научном общении на иностранном языке;
	2. подбирать источники и подготовить научные доклады и презентации на иностранном языке;
Владеть:	1. различными методами, технологиями и типами коммуникаций при осуществлении профессиональной деятельности на иностранном языке;
	2. навыками анализа научных текстов на иностранном языке.

## 2. Оценочные средства для проведения текущего контроля успеваемости и промежуточной аттестации

**Оценочные средства** представляют собой фонд заданий, а также описаний форм и процедур, предназначенных для определения степени сформированности результатов обучения аспиранта по дисциплине.

К **оценочным средствам** результатов обучения относятся:

### 2.1. Устный опрос

Устный опрос – диалог преподавателя с аспирантом, цель которого – систематизация и уточнение имеющихся у него знаний, проверка его индивидуальных возможностей усвоения материала.

#### Виды заданий

Задание 1. Чтение и письменный перевод со словарем отрывка из научного текста по своей научной специальности.

Задание 2. Чтение без словаря и аннотирование отрывка из научного текста по своей научной специальности.

Задание 3. Чтение без словаря и рецензирование отрывка из научного текста по своей научной специальности.

Задание 4. Просмотровое чтение отрывка научного текста по своей научной специальности и передача его содержания на русском языке.

Задание 5. Представление доклада на научной конференции по своей научной специальности.

Задание 6. Ответы на вопросы по теме научного исследования.

Задание 7. Беседа с преподавателем по теме научного исследования.

Оценка (балл)	Критерии оценивания
5 (отлично)	Аспирант продемонстрировал очень хорошее умение пользоваться иностранным языком как средством профессионального общения в научной сфере: очень хорошее владение нормами изучаемого языка и правильное использование их во всех видах речевой коммуникации, в научной сфере в форме устного и письменного сообщения; очень хорошее владение подготовленной монологической речью, а также неподготовленной монологической и диалогической речью в ситуации общения в пределах программных требований; отсутствие затруднений при чтении

Оценка (балл)	Критерии оценивания
	оригинальной литературы по специальности; очень хорошие навыки поискового и просмотрового чтения; умение максимально точно и адекватно извлекать основную информацию, содержащуюся в тексте, проводить обобщение и анализ основных положений предъявленного научного текста для последующего перевода на язык обучения
4 (хорошо)	Аспирант продемонстрировал в целом хорошее умение пользоваться иностранным языком как средством профессионального общения в научной сфере: хорошее владение нормами изучаемого языка и в целом правильное использование их во всех видах речевой коммуникации, в научной сфере в форме устного и письменного общения; хорошее владение подготовленной монологической речью, а также неподготовленной монологической и диалогической речью в ситуации официального общения в пределах программных требований; незначительные затруднения при чтении оригинальной литературы по специальности, навыки языковой и контекстуальной догадки; хорошие навыки просмотрового чтения; умение достаточно точно и адекватно извлекать основную информацию, содержащуюся в тексте, проводить обобщение и анализ отдельных положений предъявленного научного текста для последующего перевода на язык обучения
3 (удовлетворительно)	Аспирант продемонстрировал посредственное умение пользоваться иностранным языком как средством профессионального общения в научной сфере; посредственное владение нормами изучаемого языка и отсутствие умения их использования в речевой коммуникации, в научной сфере в форме устного и письменного общения; посредственное владение подготовленной монологической речью, а также неподготовленной монологической речью в ситуации официального общения в пределах программных требований; недостаточная содержательность и логичность; очевидные затруднения при чтении оригинальной литературы по специальности; отсутствие основных страноведческих и профессиональных знаний, навыков языковой и контекстуальной догадки; посредственные навыки просмотрового чтения; недостаточное умение извлекать основную информацию, содержащуюся в тексте, проводить обобщение и анализ основных положений предъявленного научного текста для последующего перевода на язык обучения
2 (неудовлетворительно)	Аспирант продемонстрировал неумение пользоваться иностранным языком как средством профессионального общения в научной сфере: отсутствие владения нормами изучаемого языка и полное неумение их использования в речевой коммуникации; отсутствие владения монологической и диалогической речью в ситуации официального общения в пределах программных требований; неумение строить логичное, связное, содержательно и структурно завершенное, нормативное высказывание, отвечающее требованиям содержательности в соответствии с коммуникативным намерением; полное отсутствие умений и навыков чтения оригинальной

Оценка (балл)	Критерии оценивания
	литературы по специальности; полное отсутствие страноведческих и профессиональных знаний, навыков языковой и контекстуальной догадки; полное отсутствие навыков просмотрового чтения; неумение извлекать основную информацию, содержащуюся в тексте, проводить обобщение и анализ основных положений предъявленного научного текста для последующего перевода на язык обучения

### Text 1 Postgraduate study

Postgraduate study is an opportunity to study your chosen subject in more depth and enhance your career. There are some important factors to consider when choosing a course and deciding when to go back into higher education (HE).

*Why do you want to do further study?*

Before you decide to do postgraduate study, consider your motives and decide what it is you want to achieve. People do further study for a number of reasons including an interest in the subject, to gain a career advantage, or because it is necessary for entry or advancement in a particular occupation.

*Will you enjoy it?*

Research all your options to find the right one for you. Look at the prospectus, visit the institution and talk to the tutors to see if the subject matter, teaching styles and research methods will suit you. If you're considering a research post such as a PhD, talk to current doctoral students about their experiences, and make sure you get on with your proposed supervisor before you agree to the post.

*Can you afford it?*

Further study can be very expensive but funding may be available in the form of government loans, scholarships, bursaries, research council grants or employer sponsorship. Additionally, many universities offer alumni discounts.

For those domiciled in England, there is a new postgraduate government loan scheme for masters courses. Loans are available for full-time, part-time and distance learning courses.

In Northern Ireland, new postgraduate funding will be available from 2017 onwards. The Scottish and Welsh governments are considering introducing similar schemes but details are yet to be finalised and for now, the existing funding arrangements continue to be available.

Eligibility criteria, including details of nationality, residency, age and previous study, apply to all postgraduate loans.

If you are planning on studying for a separate postgraduate course immediately after completing your undergraduate degree you should contact the award making body that funded your first programme of study. If you have worked or taken time out after your first degree you should contact the award making body where you are ordinarily resident.

Before getting a loan, assess whether you will be able to pay it back after you graduate. The English postgraduate loan scheme has to be repaid at the same time as the undergraduate loan.

PhD loans of up to £25,000 have also been announced by the government for 2018. Anyone considering a PhD should fully research the current funding possibilities such as studentships and research council grants.

*Will it improve your career prospects?*

Further study can demonstrate enhanced technical and transferable skills and a commitment to your subject, for some careers it may even be a requisite. However, don't assume that a higher qualification will automatically help you get into your chosen career; some graduate employers look more

favourably on experience than additional qualifications. Postgraduate qualifications may increase long-term earnings, but they do not usually merit higher starting salaries.

*Is it necessary to get into your chosen occupation?*

The usual path into many careers, such as teaching, law, social work and librarianship, involves a professional postgraduate qualification. However, in recent years, career routes have diversified so you may be able to enter these roles with a range of alternative qualifications. Therefore, if you are considering further study in order to join a particular profession, research all the routes into your chosen role before choosing the best one for you.

*Will it buy you some time?*

Whether you want more time to decide what to do or you think the job market may be better after you finish a postgraduate course, don't just use postgraduate study as an excuse to procrastinate. You need to think about what the benefits are of doing a particular programme, and what your priorities are for getting work experience and getting contacts along the way.

*Can you build useful networks?*

Networking is a crucial element of career development. Make sure you choose a postgraduate course that gives you wide access to professionals in your chosen field.

*Will it help you change your career?*

Further study might be advisable if you want to get into a career that isn't linked to your degree, or if you have started work and want to move into a new field. You could do a wide range of courses, such as a masters, a conversion course or a PhD. However, be aware that the majority of graduate employers do not require a specific degree or further qualifications. So before you take such a major step, make sure that your new qualification will enhance your opportunities. Conversion courses can be very useful for graduates with general degrees who wish to take a vocational direction such as law or psychology.

If a course requires up-to-date knowledge and skills, there is a clear advantage to signing up immediately after your undergraduate degree. This will ensure you don't get out of the habit of studying. Immediate postgraduate study could help you in your career by giving you a unique selling point in your job applications, refocusing your skills or providing you with a professional qualification. On a personal note, it will probably involve less turmoil at this stage if you just carry on with your studies rather than uprooting yourself mid-career.

*After a break*

The main reason for taking a break before postgraduate study is that you will gain important skills and experience that will help to maximise the impact of your new qualification. Whether you take time out from your studies to work or travel, it will give you a chance to improve your CV and make yourself more attractive to employers. Some postgraduate qualifications, such as social work or some MBAs, require a minimum period of employment experience before you can even start the course. The personal advantages to taking a break are that you will be refreshed and you can save up some money to fund your studies.

*While you are working*

Many graduates continue in some sort of education/training even when they have found work. You could study during the evenings and weekends or your employer may allow you to take study leave. Studying and working simultaneously will enable you to put theory into practice and will help you to develop your career. However, it can be very tiring, especially if you have other commitments, so you will need to be motivated and enthusiastic if you are going to succeed.

*Mid-career break*

This is an option if you want to take a further qualification to progress in your career or enter a new field. Make sure that the qualification you are considering will be beneficial before you hand in your notice at work. The advantage of this option is that you can save up the money you need and will have a range of skills to bring to the course and your future career. On the other hand, you have to ask yourself if you can afford to live without your salary and if you will have the energy and opportunity to reinvigorate your career once you have finished your study.

## Text 2

### How to write a research abstract

Research abstracts are used throughout the research community to provide a concise description about a research project. It is typically a short summary of your completed research. If done well, it makes the reader want to learn more about your research. Some students present their research findings at local and national conferences. Research abstracts are usually requested as part of the application process for conference presenters. These are the basic components of an abstract in any discipline:

1) Motivation/problem statement: Why do we care about the problem? What practical, scientific, theoretical or artistic gap is your research filling?

2) Methods/procedure/approach: What did you actually do to get your results? (e.g. analyzed 3 novels, completed a series of 5 oil paintings, interviewed 17 students)

3) Results/findings/product: As a result of completing the above procedure, what did you learn/invent/create?

4) Conclusion/implications: What are the larger implications of your findings, especially for the problem/gap identified in step 1?

However, it's important to note that the weight accorded to the different components can vary by discipline. For models, try to find abstracts of research that is similar to your research.

#### *Qualities of a Good Abstract*

Well developed paragraphs are unified, coherent, concise, and able to stand alone

Uses an introduction/body/conclusion structure which presents the article, paper, or report's purpose, results, conclusions, and recommendations in that order

Follows strictly the chronology of the article, paper, or report Provides logical connections (or transitions) between the information included

Adds no new information, but simply summarizes the report

Is understandable to a wide audience

Oftentimes uses passive verbs to downplay the author and emphasize the information

#### *Steps to Writing Effective Abstracts*

Reread the article, paper, or report with the goal of abstracting in mind. Look specifically for these main parts of the article, paper, or report: purpose, methods, scope, results, conclusions, and recommendation. If you're writing an abstract about another person's article, paper, or report, the introduction and the summary are good places to begin. These areas generally cover what the article emphasizes. After you've finished rereading the article, paper, or report, write a rough draft without looking back at what you're abstracting. Don't merely copy key sentences from the article, paper, or report: you'll put in too much or too little information. Don't rely on the way material was phrased in the article, paper, or report: summarize information in a new way.

#### *Don'ts*

Do not commence with "this paper...", "this report..." or similar. It is better to write about the research than about the paper.

Do not explain the sections or parts of the paper.

Avoid sentences that end in "...is described", "...is reported", "...is analyzed" or similar.

Do not begin sentences with "it is suggested that..." "it is believed that...", "it is felt that..." or similar. In every case, the four words can be omitted without damaging the essential message.

Do not repeat or rephrase the title.

Do not refer in the abstract to information that is not in the document.

If possible, avoid trade names, acronyms, abbreviations, or symbols. You would need to explain them, and that takes too much room.

*The abstract should be about the research, not about the act of writing.*

*Where to Find Examples of Abstracts:*

The best source of example abstracts is journal articles. Go to the library and look at scientific journals, or look at electronic journals on the web.

Read the abstract; read the article. Pick the best ones, the examples where the abstract makes the article easier to read, and figure out how they do it.

Not everyone writes good abstracts, even in refereed journals, but the more abstracts you read, the easier it is to spot the good ones.

### **Text 3**

#### **Professional development**

Professional development is learning to earn or maintain professional credentials such as academic degrees to formal coursework, conferences and informal learning opportunities situated in practice. It has been described as intensive and collaborative, ideally incorporating an evaluative stage. There are a variety of approaches to professional development, including consultation, coaching, communities of practice, lesson study, mentoring, reflective supervision and technical assistance.

##### *Approaches*

In a broad sense, professional development may include formal types of vocational education, typically post-secondary or poly-technical training leading to qualification or credential required to obtain or retain employment. Professional development may also come in the form of pre-service or in-service professional development programs. These programs may be formal, or informal, group or individualized. Individuals may pursue professional development independently, or programs may be offered by human resource departments. Professional development on the job may develop or enhance process skills, sometimes referred to as leadership skills, as well as task skills. Some examples for process skills are 'effectiveness skills', 'team functioning skills', and 'systems thinking skills'.

Professional development opportunities can range from a single workshop to a semester-long academic course, to services offered by a medley of different professional development providers and varying widely with respect to the philosophy, content, and format of the learning experiences. Some examples of approaches to professional development include:

**Case Study Method** – The case method is a teaching approach that consists in presenting the students with a case, putting them in the role of a decision maker facing a problem (Hammond 1976) – See Case method.

**Certification** - to assess a professional and evaluate the different competencies based on a given set of standards required in the sector employed. (For instance, in the Teaching profession there is a certification offered by Centre for Teacher Accreditation (CENTA) which aims to recognise outstanding teachers)

**Consultation** – to assist an individual or group of individuals to clarify and address immediate concerns by following a systematic problem-solving process.

**Coaching** – to enhance a person's competencies in a specific skill area by providing a process of observation, reflection, and action.

**Communities of Practice** – to improve professional practice by engaging in shared inquiry and learning with people who have a common goal

**Lesson Study** – to solve practical dilemmas related to intervention or instruction through participation with other professionals in systematically examining practice

**Mentoring** – to promote an individual's awareness and refinement of his or her own professional development by providing and recommending structured opportunities for reflection and observation

**Reflective Supervision** – to support, develop, and ultimately evaluate the performance of employees through a process of inquiry that encourages their understanding and articulation of the rationale for their own practices

**Technical Assistance** – to assist individuals and their organization to improve by offering resources and information, supporting networking and change efforts.



### *Professional development goals*

Professional development goals vary depending on the field a person works in, but usually fall into three broad areas. Job-specific goals have to do with tasks that are part of an employee's job responsibilities. Skill-set goals are broader than job-specific goals, but are still related to what a person does. Educational goals are about gaining advanced knowledge in a subject.

Job-specific goals are directly applicable to the job a person is currently doing. A goal such as to call five potential new clients in a week might be a job-specific goal for someone in sales. A web designer might have a goal to write a contact info page for website.

Skill-set professional development goals are generally about improving a complex set of skills rather than one particular task. A goal to improve proficiency in a broad area such as project management, which includes skills in time management, planning, and sometimes personnel coordination, would be a skill-set goal. Such goals are often easier to achieve if they are broken down into smaller steps.

An educational goal might be something specific to a job, such as taking a class in a particular software application or business method. It might be working toward a professional certification or other professional credential, or it could even be earning a college degree. Some employers offer in-house or outside training or tuition reimbursement to help their employees pursue these goals.

## **Text 4**

### **Guidelines for academic communication**

#### *How to Read and Understand a Science Journal Article*

Instruction: This text is an adaptation of Kendra Cherry's recommendations for graduate students and young researchers, published in the Internet and free of copyright limitations. On reading and understanding the text your purpose will be to acquire skills of skim reading scholarly papers in your field and writing a critique of both an article and a dissertation. Your immediate aim will be to employ the tactics and memorize the vocabulary well enough to be ready to discuss the topic, if necessary, with your examiner.

#### *Part I. A Few Simple Tactics*

If you are studying your field, you are going to need to read articles published in academic and professional journals at some point. You might read these articles as part of a literature review for a paper you are writing, or your instructor may even ask you to write a critique of an article. Whatever the reason, it is essential that you understand what you are reading and find ways to then summarize the content in your own words.

Research articles can be complex and may seem daunting, especially to beginners who have no experience reading or writing this type of paper. Learning how to read this type of writing is mostly a matter of experience, but utilizing a few simple tactics can make this process much easier.

#### *Start by Understanding How a Journal Article is Structured:*

At first glance, a journal article may seem to be a confusing collection of unfamiliar terminology and complicated tables. However, most articles follow a fairly standardized format that conforms to guidelines established by academic associations. By understanding this structure, you'll feel more comfortable working your way through each section.

**The Abstract:** This short paragraph-long section provides a brief overview of the article. Reading the abstract is a great way to get an idea for what information the article will cover. Reading this section first can help you decide if the article is relevant to your topic or interests.

**The Introduction:** The second section of the article introduces the problem and reviews previous research and literature on the topic. This part of the article will help you better understand the background of the research and the current question that is under investigation.

**The Method Section:** This part of the article details how the research was conducted. Information about the participants, the procedures, the instruments and the variables that were measured are all described in this section.

**The Results Section:** So what were the actual results of the study? This important section details what the researchers found, so pay careful attention to this part of the article. Tables and figures are frequently included in addition to the text.

**The Discussion Section:** What do the result of the study really mean? In this section, the author(s) interpret the results, outline the implications of the study and provide possible descriptions of future research that should be conducted.

**The References Sections:** This section lists all of the articles and other sources cited within the article.

Skim through the article:

Once you understand the basic structure of the article, your first step should be to briefly skim through the material. Never start by doing an in-depth reading of an article before you have skimmed over each section. Attempting a thorough read-through before you have skimmed the contents is not only difficult; it may be a waste of valuable time.

Skimming is a great way to become familiar with the topic and the information included in the paper. In some cases, you may find that the paper is not well-suited to your needs, which can save time and allow you to move on to a research article that is more appropriate.

Take Notes on Each Section and Ask Questions:

Your next step should be to carefully read through each section, taking notes as you go. Write down important points, but also make note of any terminology or concepts that you do not understand. Once you've read the entire article, go back and start looking up the information that you didn't understand using another source. This might involve using a dictionary, textbook, online resource or even asking a classmate or your professor.

*Identify Key Information:*

· Whether you are looking for information that supports the hypothesis in your own paper or carefully analyzing the article and critiquing the research methods or findings, there are important questions that you should answer as you read the article.

- What is the main hypothesis?
- Why is this research important?
- Did the researchers use appropriate measurements and procedures?
- What were the variables in the study?
- What was the key finding of the research?
- Do the findings justify the author's conclusions?

*The guidelines for a research paper*

The following guidelines are designed to help you research and produce a research paper that is well written, of high quality, correctly cited, and with good analytical content.

*Basic guidelines*

With almost everything you write, there are some basic guidelines that you should follow:

THINK about the purpose and the context of the research paper you are producing.

STATE clearly and concisely what it is that you plan to achieve.

INCLUDE only relevant material.

STRIVE for consistency of expression throughout the paper.

MAKE SURE you are ACCURATE in all of your statements and in the analysis and presentation of data.

PRESENT your information in a logical and effective order.

CONVEY your message as simply and clearly as possible.

MAKE SURE that your paper is both COHERENT and COMPLETE.

DO NOT draw conclusions that are not clearly based on your evidence.

NEVER assume that one draft will «do the job». Count on producing at least two drafts before producing the final copy.

ALWAYS proofread and make any needed corrections before submitting the paper.

## **Text 5**

### **Dissertations: Conducting Research**

Instruction: These are guidelines for conducting a dissertation which usually pose a big problem for post graduate students. This is an adaptation of a text placed in the Internet without copyright limitations. You are sure to realize that, no matter how advanced you are in your field or how novel and promising your ideas might be for your research, it will take too much time for you to achieve your goal because of your failure to demonstrate your achievements in the selected field. On reading and understanding the following text your purpose will be to verify what you know about the standard guidelines of writing a dissertation. This will be your goal as a competitor for the candidate degree. However your goal as an examinee is to get ready to present these guidelines employing the vocabulary that you acquire in this section at your English candidate exam.

Writing a dissertation in your field is similar to writing a scientific report, in which the main goal is the demonstration of acquired knowledge in a selected field. The research in dissertations is a difficult aspect as your field of science has many diverse directions.

Despite the diversity of subjects, there are accepted methodological approaches in writing dissertations. This article will provide a guide on the important elements of dissertations, and the way they can be approached.

#### *The Steps in Dissertations*

The common steps that can be identified through the process of writing a dissertation are as follows:

Identifying a research problem — such step in dissertations implies asking questions regarding an identified problem, considering the feasibility of them being answered.

A literature review A review of literature will indicate the gaps in specific knowledge in the selected field. It should be highlighted that in terms of division to sections, it can be stated that the literature review is one of the largest sections in dissertations, serving two purposes, i.e. demonstrating the accumulated knowledge and identifying the gaps in it.

Formulating a hypothesis — basically, hypotheses are the assumptions made through the preliminary investigation. One or more are selected as the basis of the dissertation, and which are tested in the study.

Data collection — according to the established hypothesis, the type of data to be collected will be determined. At the same time, the nature of the requested data will require assessing the most effective methods of its collection, e.g. quantitative or qualitative data. Accordingly, several aspects should be determined in dissertations such as the samples, the body of data, and the appropriate method of data measurement.

Analysis of findings and presentation results.

#### *Useful Tips:*

The «thinking about it stage» is when you are finally faced with the reality of completing your degree. Usually the early phases of a graduate program proceed in clear and very structured ways. The beginning phases of a graduate program proceed in much the same manner as an undergraduate degree program. There are clear requirements and expectations, and the graduate student moves along, step by step, getting ever closer to the completion of the program.

One day, however, the clear structure begins to diminish and now you're approaching the thesis/dissertation stage. This is a new and different time. These next steps are more and more defined by you and not your adviser, the program, or the department.

Be realistic about the time that you're willing to commit to your research project. If it's a 10 year project that you're thinking about admit it at the beginning and then decide whether or not you have 10 years to give to it. If the project you'd like to do is going to demand more time than you're willing to commit then you have a problem.

Research proposal. Assuming you've done a good job of «thinking about» your research project, you're ready to actually prepare the proposal. A word of caution those students who tend to have a problem in coming up with a viable proposal often are the ones that have tried to rush through the «thinking about it» part and move too quickly to trying to write the proposal. Here's a final check. Do each of these statements describe you? If they do you're ready to prepare your research proposal.

- I am familiar with other research that has been conducted in areas related to my research project.
- I have a clear understanding of the steps that I will use in conducting my research.
- I feel that I have the ability to get through each of the steps necessary to complete my research project.
- I know that I am motivated and have the drive to get through all of the steps in the research project.

### **Text 6**

#### **Renewable Power Opportunities for Rural Communities**

Renewable resources for the generation of electricity (e.g., wind, solar, geothermal, etc.) are typically most abundant and practical for development in rural areas. This creates an opportunity for rural electric utilities that are at a geographical advantage for investing in these projects. This report is intended to serve as a summary and guide to assist rural utilities that may be considering investing in a renewable electricity generation project and for policymakers who may be considering how to encourage such investments. Rural utilities are motivated to provide power at least cost to their customers, and thus renewable generation projects must be competitive on economic grounds. Ample, unexploited renewable generation resources are available with some resource types more available in some regions than in others. One of the challenges to expanding renewable generation in rural areas is that many of the areas with rich resources do not have the transmission capacity needed to get the additional power to demand centers. Due to their typical incorporation as member-customer-owned not-for-profit entities, rural electric utilities are focused on supplying electricity to their local customers in areas where demand growth prospects are often limited. Other aspects of the business models of alternative types of rural utilities, especially the tax system and electric power sector policies, have an impact on their ability to successfully invest in renewable power generation enterprises. An important aspect of policy is related to the ability of rural utilities to finance the development of renewable electricity generation projects. Various loan and grant programs at the federal, state, and local levels are targeted specifically to different types of rural utilities and in some cases specifically targeted to investments in renewable generation capacity. The answers to a number of questions detailed in this report regarding a rural utility's opportunities for investing in renewable electricity generation capacity can serve as a basis for prescreening these investments. Beyond the prescreening phase, a full-blown engineering and economic analysis of any investment that passes the prescreening tests will of course be required. While it may be tempting to perform regional analyses to identify promising opportunities for investments, a survey of successful projects indicates that often unique local factors provide an added advantage to the selected technology. In sum, there is clearly substantial latitude for expansion of renewable electricity generation in the United States. The location and the extent of that expansion will depend on many factors including shifting economic conditions, technological improvements, and government policies. As policymakers consider the alternatives, they will need to take into account the broad impacts of investments in renewable electricity generation, including impacts on the transmission system, the economy (local, national, and international), and national security.

### *Wind Power*

Electricity from wind is generated by using turbines to convert the wind's kinetic energy into electrical energy. Wind turbines typically have two or three airfoils, which spin due to the aerodynamic lift that is created as wind passes over them. These airfoils are attached to a shaft that drives a generator, which in turn creates electricity. Most turbines are mounted at least 30 meters (m) above the ground to take advantage of wind resources that are faster and less turbulent than those closer to the ground.

A typical modern wind turbine has three airfoils that are 70-80 m in diameter mounted atop a tower 60- 80 meters tall. Such a turbine can generate roughly 1.6 megawatts (MW) of electrical power. Although turbines with larger airfoils, higher towers, and greater generation capacity may be developed in the future, it is doubtful the airfoil diameter of land-based wind turbines will exceed 100 m, which corresponds to a power output of 3-6 MW. This is because the transportation costs of such large components present a significant economic barrier to widespread adoption.

### *Advantages*

The use of wind power has numerous advantages. It does not degrade air or water quality, and it does not produce any carbon dioxide (CO<sub>2</sub>) emissions. Unlike many other forms of power generation, it does not require the extraction, transportation, storage, or combustion of fuels. Wind power also uses less water than power generated from fossil fuels. Another advantage of wind power is that it is modular. Utility-scale wind power applications are made up of many modules—turbines—and consequently may be scaled up or down as needed. This means that increases in demand over time may be met by simply adding more modules. The scalability of wind power makes it suitable for powering a single farm, an entire community, or even larger applications.

Wind power presents several advantages specific to rural communities as well. Agricultural areas often have open land that is particularly well-suited to wind power generation. In many cases, landowners can significantly increase their income per acre by hosting a wind plant, and rural communities in resource-rich areas can use wind power as a new source of tax revenue. Further, wind turbines have a small physical footprint, so their installation does not exclude other land uses. Crops may be planted and livestock grazed right up to the base of a turbine.

Another significant advantage of wind power is that it is a well-established and mature technology. This sets it apart from some other renewable power technologies, which are in earlier stages of research and development. The maturity of wind power makes wind one of the most cost-competitive renewable power resources. Although estimates of wind power generation costs vary according to numerous factors, including turbine efficiency and resource quality, costs of 4-6 cents per kilowatt-hour (kWh) are often used as a guideline. (Note that this figure includes the federal production tax credit of 2.2¢/kWh and does not include potentially high transmission costs.) Future developments could further lower prices by as much as 50 percent.

## **Text 7**

### **Renewable Energy and Rural Development**

Renewable energy projects provide rural communities with an opportunity to fortify the second and third pillars referred to in the previous section—jobs related to natural resources and manufacturing.

Renewable energy projects also provide further economic diversification, which is needed if rural economies are to remain vital well into the 21st century.

As has been described earlier in this document, many rural communities have rich renewable resource endowments. Many also feature resources that can be put to use in renewable energy projects, such as farmland that can be devoted to dedicated energy crops. In this way, natural resources and agricultural activities can continue to provide an important source of income in rural communities.

As renewable energy becomes more prominent, rural communities also have opportunities to capitalize on the manufacture of components for renewable energy generation, such as wind turbines. Furthermore, since renewable energy projects require new infrastructure to be built, they can create new

construction jobs as well as jobs associated with the operation and maintenance of new generation and transmission facilities. These opportunities are particularly important, given that manufacturing and construction are two of the sectors hit hardest by the current recession.

The economic impact of a new renewable energy project on a rural community can be significant, with benefits that extend into agriculture, manufacturing, construction, and other sectors. Such a project can also increase land values and tax revenues. A review of studies on the economic impacts of wind energy investments can be found in the NREL report *Analysis: Economic Impacts of Wind Applications in Rural Communities*. Wind Powering America (WPA) has developed a Jobs and Economic Development Impact (JEDI) model for predicting the economic impact of renewable energy projects, including wind, concentrating solar power, and biopower projects.

Generally, wind power projects tend to have the greatest direct impact on small rural economies that are not already significantly diversified, while the greatest indirect impacts are experienced by communities with larger economies. Whether construction uses local labor or not depends largely on the skill level of the local labor force. Policy may also play a role in determining the economic impact of renewable energy projects. The NREL report mentioned above indicates that some local governments have provided developers with incentives to hire local labor.

Rural population tends to track employment opportunities, so new renewable energy jobs in rural areas will likely be accompanied by rural population growth. This can lead to a virtuous cycle, in which increasing populations demand more electricity and thereby create a demand for further renewable energy investments, which create more jobs and induce further population growth, and so on. Insofar as farm households are now more dependent on their local economies, this can also lead to a significant increase in farm household welfare.

To ensure that all stakeholders benefit from a new renewable energy investment, it is important to involve as much of the community in the planning process as possible. As rural economies diversify and become more interconnected, it is also important to look for renewable energy opportunities that involve more than one community or cross regional boundaries. Communication will be crucial if rural America is to benefit as much as possible from investing in renewable energy now and in the future.

#### Developing and Financing Renewable Energy

There has been significant growth in both the size and the profitability of the renewable energy sector in recent years. This constitutes an important economic development opportunity for rural communities in the United States. However, the growth in the renewable energy sector has also attracted a large number of investors from outside of rural communities, whether domestic or international, public or private. For rural communities in the United States to maximally benefit from investment in renewable energy, the largest possible share of profits from such investments should be re-circulated within those communities. To this end, rural policymakers should evaluate the costs and benefits of facilitating the participation of cooperatives, farmers, and other rural entities in the renewable energy sector.

**Development and Financing Challenges** As renewable energy resources are abundant in many rural areas, so are renewable energy investment opportunities. However, a number of challenges face rural entities that are interested in such opportunities. These challenges can be grouped into four main categories: high equity investment requirements, complex development paths, renewable energy investment risks, and access to transmission infrastructure. The equity investments required for new renewable energy infrastructure are often substantial, especially for utility-scale renewable power facilities. Sufficient equity is sometimes difficult to raise solely from co-op members, farmers, and other rural investors. This difficulty is compounded by the risk-aversion of potential rural investors, especially farmers. Also, the low population density of many rural areas may lead to investment situations in which there are too few rural investors to fully exploit the economies of scale for generation technology. These challenges have been overcome in some cases by entering into partnerships that bring in outside equity capital. Such partnerships will be treated in more detail in the next section of this report.

## 2.2. Тестирование

**Тесты** – инструмент, с помощью которого преподаватель оценивает степень достижения аспирантом требуемых знаний, умений, навыков. Составление теста включает в себя создание выверенной системы вопросов, собственно процедуру проведения тестирования и способ измерения полученных результатов.

Шкала	Критерии оценивания (% правильных ответов)
Оценка 5 (отлично)	80-100
Оценка 4 (хорошо)	70-79
Оценка 3 (удовлетворительно)	50-69
Оценка 2 (неудовлетворительно)	менее 50

### Тест 1

- Where is your luggage? — I \_\_\_\_\_ it at the station.
  - ☐ **have left**
  - ☐ left
  - ☐ had left
- It was the \_\_\_\_\_ sweater in the shop.
  - ☐ most cheapest
  - ☐ cheaper
  - ☐ **cheapest**
- If I \_\_\_\_\_ time, I'll go with you.
  - ☐ will have
  - ☐ has
  - ☐ **have**
- Mike \_\_\_\_\_ a letter at the moment.
  - ☐ writes
  - ☐ wrote
  - ☐ **is writing**
- I \_\_\_\_\_ in London 5 years ago.
  - ☐ had lived
  - ☐ has lived
  - ☐ **lived**
- My mother \_\_\_\_\_ TV at 5 o'clock yesterday.
  - ☐ watched
  - ☐ **was watching**
  - ☐ has watched
- Mary \_\_\_\_\_ all her homework by 5 o'clock yesterday.
  - ☐ **had done**
  - ☐ has done
  - ☐ did
- I \_\_\_\_\_ to school tomorrow.
  - ☐ **will not go**
  - ☐ don't go

- ☐ didn't go
9. She is going to study music \_\_\_\_\_ next year.
- ☐ - (прав. ответ)
- ☐ in
- ☐ at
10. My parents \_\_\_\_\_ together since 1972.
- ☐ **have lived**
- ☐ live
- ☐ are living
11. I \_\_\_\_\_ Pete today.
- ☐ **have seen**
- ☐ saw
- ☐ have see
12. His niece \_\_\_\_\_ this book last year.
- ☐ has read
- ☐ **read**
- ☐ have read
13. She \_\_\_\_\_ help you tomorrow.
- ☐ **will be able to**
- ☐ must
- ☐ had to
14. Her brother \_\_\_\_\_ to Washington.
- ☐ never has been
- ☐ was never
- ☐ **has never been**
15. \_\_\_\_\_ to New York?
- ☐ Did you ever be
- ☐ You have ever been
- ☐ **Have you ever been**
16. You should eat more, \_\_\_\_\_ you'll make yourself ill.
- ☐ **or**
- ☐ and
- ☐ if
17. He \_\_\_\_\_ yesterday.
- ☐ **didn't eat**
- ☐ didn't ate
- ☐ hasn't eaten
18. \_\_\_\_\_ the piano yesterday?
- ☐ Have you play
- ☐ **Did you play**
- ☐ Did you played
19. It was the \_\_\_\_\_ shirt in the shop.
- ☐ most cheapest
- ☐ cheaper
- ☐ **cheapest**
20. Where \_\_\_\_\_ my pen? I cannot find it.
- ☐ **have you put**
- ☐ didyouput



☐ youput

## Tecr 2

1. I \_\_\_\_\_ to the cinema since last year.
  - ☐ didn'tgo
  - ☐ don'tgo
  - ☐ **haven'tbeen**
2. They sometimes \_\_\_\_\_ to the cinema on Friday evening.
  - ☐ **go**
  - ☐ have gone
  - ☐ goes
3. "\_\_\_\_\_ report is this?" "It's John's".
  - ☐ Which
  - ☐ **Whose**
  - ☐ What
4. Who was that young lady \_\_\_\_\_?
  - ☐ spoke to you
  - ☐ **that you were speaking to**
  - ☐ that you spoke
5. Look, children! Your uncle has \_\_\_\_\_ you a bag of sweets.
  - ☐ caught
  - ☐ taken
  - ☐ **brought**
6. It is not my book, it is \_\_\_\_\_.
  - ☐ them
  - ☐ **theirs**
  - ☐ their
7. I \_\_\_\_\_ having lunch when she knocked at the door.
  - ☐ **wasstill**
  - ☐ stillwas
  - ☐ wasyet
8. I'm going out to the garden to pick some beans \_\_\_\_\_ it isn't raining.
  - ☐ that
  - ☐ so
  - ☐ **while**
9. Simon is too busy \_\_\_\_\_ see her now.
  - ☐ for
  - ☐ **to**
  - ☐ that
10. There wasn't any reliable information on practical aspects, \_\_\_\_\_?
  - ☐ wasn'tit
  - ☐ **wasthere**
  - ☐ wasn'tthere
11. It is not my book, it is \_\_\_\_\_.
  - ☐ them
  - ☐ **theirs**

- ☐ their
12. Your bag looks heavy! I'll carry \_\_\_\_\_ for you.
- ☐ **it**
- ☐ him
- ☐ her
13. Will you take \_\_\_\_\_ magazines with you?
- ☐ anything
- ☐ **any**
- ☐ something
14. She sings \_\_\_\_\_ than anyone I know.
- ☐ **more beautiful**
- ☐ beautiful
- ☐ much beautiful
15. Bats and owls generally hunt at \_\_\_\_\_ night.
- ☐ the
- ☐ a
- ☐ **-(прав. ответ)**
16. She is going to study music \_\_\_\_\_ next year.
- ☐ **-(прав. ответ)**
- ☐ in
- ☐ at
17. The workers \_\_\_\_\_ the road by the end of the year.
- ☐ **will have built**
- ☐ will build
- ☐ willhavebeenbuilt
18. Chris is trying to \_\_\_\_\_ smoking.
- ☐ **give up**
- ☐ give out
- ☐ give down
19. \_\_\_\_\_ I speak to Jane, please?
- ☐ Must
- ☐ **Can**
- ☐ Need
20. When the game is over, we \_\_\_\_\_ a cup of tea.
- ☐ **will have**
- ☐ has had
- ☐ had

### Тест 3

1. I \_\_\_\_\_ go to the bank yesterday. I hadn't got any money.
- ☐ must to
- ☐ **had to**
- ☐ will have to
2. Karen is the \_\_\_\_\_ girl in the class.
- ☐ prettier
- ☐ **prettiest**
- ☐ more pretty

3. \_\_\_\_\_ you speak any foreign languages?
- ☐ Oughtto
  - ☐ Must
  - ☐ **Can**
4. Mike \_\_\_\_\_ a letter at the moment.
- ☐ writes
  - ☐ wrote
  - ☐ **is writing**
5. It's Sunday tomorrow, \_\_\_\_\_ I don't have to get up early.
- ☐ in order to
  - ☐ because
  - ☐ **so**
6. I'll \_\_\_\_\_ go now. My friends are waiting for me.
- ☐ **have to**
  - ☐ can
  - ☐ may
7. I \_\_\_\_\_ to the cinema since last year.
- ☐ didn'tgo
  - ☐ don'tgo
  - ☐ **haven'tbeen**
8. - George phoned while you were out.  
- O.K. I \_\_\_\_\_ him back.
- ☐ **will phone**
  - ☐ phoned
  - ☐ will be phoned
9. I \_\_\_\_\_ my keys. I don't know what to do.
- ☐ has lost
  - ☐ **have lost**
  - ☐ have been lost
10. You \_\_\_\_\_ have informed the clients in advance. Why didn't you do that?
- ☐ **should**
  - ☐ needs
  - ☐ can
11. \_\_\_\_\_ to Japan?
- ☐ Did you ever be
  - ☐ You have ever been
  - ☐ **Have you ever been**
12. Mike \_\_\_\_\_ a letter at the moment.
- ☐ writes
  - ☐ wrote
  - ☐ **is writing**
13. She \_\_\_\_\_ help you tomorrow.
- ☐ **will be able**
  - ☐ must
  - ☐ had to
14. \_\_\_\_\_ you speak any foreign languages?
- ☐ Oughtto
  - ☐ Must

- ☐ **Can**
15. I have \_\_\_\_ appointment at the dentist's this afternoon.
- ☐ **an**
- ☐ -
- ☐ the
16. Chris is trying to \_\_\_\_\_ smoking.
- ☐ **give up**
- ☐ give out
- ☐ give down
17. She is going to study music \_\_\_\_\_ next year.
- ☐ - (прав. ответ)
- ☐ in
- ☐ at
18. There isn't a good restaurant in this town, \_\_\_\_.
- ☐ is it?
- ☐ isn't there?
- ☐ **is there?**
19. Bats and owls generally hunt at \_\_\_\_ night.
- ☐ the
- ☐ a
- ☐ - (прав. ответ)
20. \_\_\_\_ I speak to Jane, please?
- ☐ Must
- ☐ **Can**
- ☐ Ought

#### Тест 4

1. I \_\_\_\_\_ go to the bank yesterday. I hadn't got any money.
- ☐ must to
- ☐ **had to**
- ☐ will have to
2. Karen is the \_\_\_\_\_ girl in the class.
- ☐ prettier
- ☐ **prettiest**
- ☐ more pretty
3. \_\_\_\_\_ you speak any foreign languages?
- ☐ Oughtto
- ☐ Must
- ☐ **Can**
4. Mike \_\_\_\_\_ a letter at the moment.
- ☐ writes
- ☐ wrote
- ☐ **is writing**
5. It's Sunday tomorrow, \_\_\_\_\_ I don't have to get up early.
- ☐ in order to
- ☐ because
- ☐ **so**

6. I'll \_\_\_\_\_ go now. My friends are waiting for me.
- ☐ **have to**
  - ☐ can
  - ☐ may
7. I \_\_\_\_\_ to the cinema since last year.
- ☐ didn't go
  - ☐ don't go
  - ☐ **haven't been**
8. - George phoned while you were out.  
- O.K. I \_\_\_\_\_ him back.
- ☐ **will phone**
  - ☐ phoned
  - ☐ will be phoned
9. I \_\_\_\_\_ my keys. I don't know what to do.
- ☐ has lost
  - ☐ **have lost**
  - ☐ have been lost
10. You \_\_\_\_\_ have informed the clients in advance. Why didn't you do that?
- ☐ **should**
  - ☐ needs
  - ☐ can
11. \_\_\_\_\_ to Japan?
- ☐ Did you ever be
  - ☐ You have ever been
  - ☐ **Have you ever been**
12. Mike \_\_\_\_\_ a letter at the moment.
- ☐ writes
  - ☐ wrote
  - ☐ **is writing**
13. She \_\_\_\_\_ help you tomorrow.
- ☐ **will be able**
  - ☐ must
  - ☐ had to
14. \_\_\_\_\_ you speak any foreign languages?
- ☐ Ought to
  - ☐ Must
  - ☐ **Can**
15. I have \_\_\_\_\_ appointment at the dentist's this afternoon.
- ☐ **an**
  - ☐ -
  - ☐ the
16. Chris is trying to \_\_\_\_\_ smoking.
- ☐ **give up**
  - ☐ give out
  - ☐ give down
17. She is going to study music \_\_\_\_\_ next year.
- ☐ **- (прав. ответ)**
  - ☐ in

- ☐ at
18. There isn't a good restaurant in this town, \_\_\_\_\_.  
☐ is it?  
☐ isn't there?  
☐ **is there?**
19. Bats and owls generally hunt at \_\_\_\_\_ night.  
☐ the  
☐ a  
☐ - **(прав. ответ)**
20. \_\_\_\_\_ I speak to Jane, please?  
☐ Must  
☐ **Can**  
☐ Ought

### Тест 5

1. What \_\_\_\_\_ your favourite time of the year?  
☐ are  
☐ to be  
☐ **is**
2. I \_\_\_\_\_ my keys. I don't know what to do.  
☐ has lost  
☐ **have lost**  
☐ have been lost
3. Chris is trying to \_\_\_\_\_ smoking.  
☐ **give up**  
☐ give out  
☐ give down
4. \_\_\_\_\_ I speak to Jane, please?  
☐ Must  
☐ **Can**  
☐ Need
5. We \_\_\_\_\_ football at 7 o'clock tomorrow.  
☐ will play  
☐ **will be playing**  
☐ will playing
6. I will \_\_\_\_\_ go to bed early tonight.  
☐ **have to**  
☐ can  
☐ are to  
☐ must
7. Your bag looks heavy! I'll carry \_\_\_\_\_ for you.  
☐ **it**  
☐ him  
☐ her
8. I \_\_\_\_\_ having lunch when she knocked at the door.  
☐ **was still**  
☐ still was

- ☐ was yet
9. You should eat more, \_\_\_\_\_ you'll make yourself ill.
- ☐ **or**
- ☐ and
- ☐ if
10. The Queen \_\_\_\_\_ at Windsor Castle yesterday.
- ☐ is arriving
- ☐ have arrived
- ☐ **arrived**
11. Things are much more expensive now. There \_\_\_\_\_ a big rise in the cost of living.
- ☐ have been
- ☐ **has been**
- ☐ was
12. My house is \_\_\_\_\_ in the street.
- ☐ smaller
- ☐ more smaller
- ☐ **the smallest**
13. She is going to see her daughter who has come from \_\_\_\_\_ Canada.
- ☐ the
- ☐ a
- ☐ **- (прав. ответ)**
14. We enjoyed our walk \_\_\_\_\_ the bad weather.
- ☐ **despite**
- ☐ but
- ☐ for
15. Are you \_\_\_\_\_ working for us?
- ☐ interested at
- ☐ **interested in**
- ☐ interested with
16. \_\_\_\_\_ to London?
- ☐ Did you ever be
- ☐ You have ever been
- ☐ **Have you ever been**
17. You \_\_\_\_\_ have informed the clients in advance. Why didn't you do that?
- ☐ **should**
- ☐ needs
- ☐ has to
18. The amount of organically grown food on sale has \_\_\_\_\_ enormously in recent years.
- ☐ **increased**
- ☐ raised
- ☐ lifted
19. You may borrow my laptop \_\_\_\_\_ you promise to look after it.
- ☐ **as long as**
- ☐ unless
- ☐ in case
20. When the game is over, we \_\_\_\_\_ a cup of tea.
- ☐ **will have**

- ☐ has had
- ☐ had

## Тест 6

1. ... did he stay there?
  - ☐ How much
  - ☐ What
  - ☐ **How long**
2. Our plan \_\_\_\_\_ by the members of the committee now.
  - ☐ considers
  - ☐ **is being considered**
  - ☐ is considered
3. \_\_\_\_\_ you speak any foreign languages?
  - ☐ Ought to
  - ☐ Must
  - ☐ **Can**
4. The university of Michigan is one of the best universities in the United States and it \_\_\_\_\_ in Ann Arbor.
  - ☐ located
  - ☐ location
  - ☐ **is located**
5. It's Sunday tomorrow, \_\_\_\_\_ I don't have to get up early.
  - ☐ in order to
  - ☐ because
  - ☐ **so**
6. I'll \_\_\_\_\_ go now. My friends are waiting.
  - ☐ **have to go**
  - ☐ can
  - ☐ may
7. I \_\_\_\_\_ to London since last year.
  - ☐ didn't go
  - ☐ don't go
  - ☐ **haven't been**
8. - George phoned while you were out.  
- O.K. I \_\_\_\_\_ him back.
  - ☐ **will phone**
  - ☐ phoned
  - ☐ will be phoned
9. I \_\_\_\_\_ my papers. I don't know what to do.
  - ☐ has lost
  - ☐ **have lost**
  - ☐ have been lost
10. You \_\_\_\_\_ have informed the clients in advance. Why didn't you do that?



- ☐ **should**
- ☐ needs
- ☐ can

11. \_\_\_\_\_ to Japan?

- ☐ Did you ever be
- ☐ You have ever been
- ☐ **Have you ever been**

12. My colleague \_\_\_\_\_ a letter at the moment.

- ☐ writes
- ☐ wrote
- ☐ **is writing**

13. She \_\_\_\_\_ to help you tomorrow.

- ☐ **will be able**
- ☐ must
- ☐ had to

14. When the game is over, we \_\_\_\_\_ a cup of tea.

- ☐ **will have**
- ☐ has had
- ☐ had

15. My boss really annoys me because she \_\_\_\_\_ me to work at the weekends.

- ☐ **is always asking**
- ☐ asked
- ☐ would ask

16. Chris is trying to \_\_\_\_\_ smoking.

- ☐ **give up**
- ☐ give out
- ☐ give down

17. She is going to study German \_\_\_\_\_ next year.

- ☐ **- (прав. ответ)**
- ☐ in
- ☐ at

18. The bridge \_\_\_\_\_ by tomorrow morning.

- ☐ is being reconstructed
- ☐ **will have been reconstructed**
- ☐ will be reconstructed

19. Bats and owls generally hunt at \_\_\_\_\_ night.

- ☐ the
- ☐ a
- ☐ **- (прав. ответ)**

20. \_\_\_\_\_ I speak to Jane, please?

- ☐ Must
- ☐ **Can**

☐ Ought

## Тест 7

1. "I'm not very sociable. \_\_\_\_\_.  
☐ I don't  
☐ So am I  
☐ **Neither am I**
2. I \_\_\_\_\_ my spectacles. I don't know what to do.  
☐ has lost  
☐ **have lost**  
☐ have been lost
3. My friend is trying to \_\_\_\_\_ smoking.  
☐ **give up**  
☐ give out  
☐ give down
4. Ellen \_\_\_\_\_ that she needs to do more exercise.  
☐ has been realizing  
☐ is realized  
☐ **has realized**
5. The students \_\_\_\_\_ football at 7 o'clock tomorrow.  
☐ will play  
☐ **will be playing**  
☐ will playing
6. I will \_\_\_\_\_ go to bed early tonight.  
☐ **have to**  
☐ can  
☐ are to
7. Your bag looks heavy! I'll carry \_\_\_\_\_ for you.  
☐ **it**  
☐ him  
☐ her
8. I \_\_\_\_\_ having lunch when somebody knocked at the door.  
☐ **was still**  
☐ still was  
☐ was yet
9. You should eat more, \_\_\_\_\_ you'll make yourself ill.  
☐ **or**  
☐ and  
☐ if
10. The Queen \_\_\_\_\_ at Windsor Castle yesterday.  
☐ is arriving  
☐ have arrived  
☐ **arrived**

11. Is coffee \_\_\_\_ in Kenya?
- ☐ **grown**
  - ☐ grow
  - ☐ grew
12. My house is \_\_\_\_\_ in the street.
- ☐ smaller
  - ☐ more smaller
  - ☐ **the smallest**
13. 'Is a lot of paper wasted in your office? ' \_\_\_\_ '.
- ☐ Yes, it has.
  - ☐ **Yes, it is.**
  - ☐ Yes, it was.
14. If you \_\_\_\_ me, what would you do?
- ☐ **were**
  - ☐ like
  - ☐ are
15. We enjoyed the film but it was very cold \_\_\_\_\_ the cinema.
- ☐ on
  - ☐ into
  - ☐ **in**
16. \_\_\_\_\_to Washington?
- ☐ Did you ever be
  - ☐ You have ever been
  - ☐ **Have you ever been**
17. You \_\_\_\_ have informed the clients in advance. Why didn't you do that?
- ☐ **should**
  - ☐ needs
  - ☐ has to
18. Could you tell me where \_\_\_\_\_ ?
- ☐ **the library is**
  - ☐ is the library
  - ☐ if the library
19. I \_\_\_\_\_this book last year.
- ☐ have read
  - ☐ **read**
  - ☐ has read
20. When the game is over, we \_\_\_\_\_ a cup of tea.
- ☐ **will have**
  - ☐ has had
  - ☐ had

### 2.3. Реферат

**Реферат** – продукт самостоятельной работы аспиранта, представляющий собой краткое изложение в письменном виде полученных результатов теоретического анализа определенной научной (научно-исследовательской) темы, где автор раскрывает суть исследуемого вопроса, приводит различные точки зрения, а также собственное понимание проблемы.

<b>Шкала</b>	<b>Критерии оценивания</b>
Оценка5 (отлично)	реферат носит характер самостоятельной работы с указанием ссылок на источники литературы; тема реферата раскрыта в полном объеме; соблюдены все технические требования к реферату; список литературы оформлен в соответствии с ГОСТ;
Оценка4 (хорошо)	реферат носит характер самостоятельной работы с указанием ссылок на источники литературы; тема реферата не полностью раскрыта; есть ошибки и технические неточности оформления, как самого реферата, так и списка литературы;
Оценка3 (удовлетворительно)	реферат не носит характер самостоятельной работы, с частичным указанием ссылок на источники литературы; тема реферата частично раскрыта; есть ошибки и технические неточности оформления, как самого реферата, так и списка литературы;
Оценка2(неудовлетворительно)	реферат не носит характер самостоятельной работы, отсутствуют ссылки на источники литературы; тема реферата нераскрыта; допущены грубые ошибки при изложении материала.

Реферат выполняется на русском языке на основе прочитанной самостоятельно книги (монографии) на иностранном языке по своей научной специальности. Объем книги (монографии) составляет 275-280 стр. (650000-700000 печ. зн.). Объем реферата - 22-25 стр. (50000-60000 печ.зн.).

### **3. Процедуры и оценочные средства для проведения промежуточной аттестации**

#### **Экзамен (кандидатский экзамен)**

Экзамен является формой оценки качества освоения аспирантом программы по научной специальности по разделам дисциплины.

Экзамен проводится по окончании чтения лекций и выполнения практических занятий. Экзамен принимается преподавателями, проводившими практические занятия и читающими лекции по данной дисциплине.

Присутствие на экзамене преподавателей с других кафедр без соответствующего распоряжения ректора, проректора по научной и инновационной работе/проректора по учебной, воспитательной работе и молодежной политике или начальника отдела аспирантуры и докторантуры не допускается.

Формы проведения экзамена (устный опрос, письменная работа, реферат, тестирование и др.) определяются кафедрой и доводятся до сведения аспирантов в начале семестра.

Для проведения экзамена ведущий преподаватель накануне получает в отделе аспирантуры и докторантуры экзаменационную ведомость, которая возвращается в отдел аспирантуры и

докторантуры после окончания мероприятия в день проведения экзамена или утром следующего дня.

Во время экзамена аспиранты могут пользоваться с разрешения ведущего преподавателя справочной и нормативной литературой, другими пособиями и техническими средствами.

Преподавателю предоставляется право задавать аспирантам дополнительные вопросы в рамках программы дисциплины.

Оценка, внесенная в экзаменационную ведомость, является результатом успешного усвоения учебного материала.

Неявка на экзамен отмечается в экзаменационной ведомости словами «не явился».

Нарушение дисциплины, списывание, использование аспирантами неразрешенных печатных и рукописных материалов, мобильных телефонов, коммуникаторов, планшетных компьютеров, ноутбуков и других видов личной коммуникационной и компьютерной техники во время экзамена запрещено. В случае нарушения этого требования преподаватель обязан удалить аспиранта из аудитории и проставить ему в ведомости оценку «неудовлетворительно».

Аспирантам, не сдавшим экзамен в установленные сроки по уважительной причине, индивидуальные сроки проведения экзамена определяются приказом ректора Университета.

Инвалиды и лица с ограниченными возможностями здоровья, могут сдавать экзамены в сроки, установленные индивидуальным учебным планом. Инвалиды и лица с ограниченными возможностями здоровья, имеющие нарушения опорно-двигательного аппарата, допускаются на аттестационные испытания в сопровождении ассистентов-сопровождающих.

Шкала и критерии оценивания ответа аспиранта представлены в таблице.

<b>Шкала</b>	<b>Критерии оценивания</b>
Оценка 5 (отлично)	всестороннее, систематическое и глубокое знание программного материала, усвоение основной и дополнительной литературы, рекомендованной программой дисциплины; владение устной иноязычной речью, в процессе которой аспирант не допускает серьезных грамматических, лексических и стилистических ошибок; сформированность и устойчивость знаний, умений и навыков;
Оценка 4 (хорошо)	полное знание программного материала, усвоение основной литературы, рекомендованной программой дисциплины; владение устной иноязычной речью, в процессе которой аспирант допускает малозначительные грамматические, лексические и стилистические ошибки, которые не искажают смысл высказываний; достаточная сформированность знаний, умений и навыков;
Оценка 3 (удовлетворительно)	знание основного программного материала в минимальном объеме; погрешности непринципиального характера; посредственное владение иноязычной речью, в процессе которой аспирант допускает малозначительные грамматические, лексические и стилистические ошибки; выявлена недостаточная сформированность знаний, умений и навыков;
Оценка 2 (неудовлетворительно)	пробелы в знаниях основного программного материала, принципиальные ошибки при владении устной иноязычной речью, в процессе которой аспирант допускает значительные грамматические, лексические и стилистические ошибки, которые искажают смысл высказываний; компетенции не сформированы, отсутствуют соответствующие знания, умения и навыки.

**Экзамен (кандидатский)** проводится в два этапа.

На *первом этапе* аспирант выполняет:

- реферат на русском языке по прочитанной самостоятельно книге (монографии) на иностранном языке по своей научной специальности. Объем книги (монографии) составляет 275-280 стр. (650000-700000 печ. зн.). Объем реферата - 22-25 стр. (50000-60000 печ.зн.). К реферату прилагается глоссарий с переводом терминологических единиц (200-250 терминов). Представленный реферат является допуском к экзамену.

- чтение и письменный перевод со словарем отрывка из научного текста. Объем 1500–1800 печатных знаков; время на подготовку – 45–60 мин. Успешное выполнение письменного перевода является условием допуска ко второму этапу экзамена. Качество перевода оценивается по зачетной системе.

*Второй этап* проводится устно и включает в себя три задания:

**Вопросы к экзамену:**

- изучающее чтение (без словаря) и аннотирование оригинального научного текста. Объем 2000 - 2500 печатных знаков. Время выполнения работы – 45-60 минут. Форма проверки: передача извлеченной информации осуществляется на иностранном языке.

- просмотровое чтение (без словаря) оригинального научного текста. Объем – 1000–1500 печатных знаков. Время выполнения – 2–3 минуты. Форма проверки: передача извлеченной информации осуществляется на русском языке.

- беседа с экзаменаторами на иностранном языке по теме научного исследования аспиранта.

**Текст для изучающего чтения и аннотирования**

This report is intended to serve as a summary and guide to assist rural utilities that may be considering investing in a renewable electricity generation project and for policymakers who may be considering how to encourage such investments. Rural utilities are motivated to provide power at least cost to their customers, and thus renewable generation projects must be competitive on economic grounds. Ample, unexploited renewable generation resources are available with some resource types more available in some regions than in others. One of the challenges to expanding renewable generation in rural areas is that many of the areas with rich resources do not have the transmission capacity needed to get the additional power to demand centers. Due to their typical incorporation as member-customer-owned not-for-profit entities, rural electric utilities are focused on supplying electricity to their local customers in areas where demand growth prospects are often limited. Other aspects of the business models of alternative types of rural utilities, especially the tax system and electric power sector policies, have an impact on their ability to successfully invest in renewable power generation enterprises. An important aspect of policy is related to the ability of rural utilities to finance the development of renewable electricity generation projects. Various loan and grant programs at the federal, state, and local levels are targeted specifically to different types of rural utilities and in some cases specifically targeted to investments in renewable generation capacity. The answers to a number of questions detailed in this report regarding a rural utility's opportunities for investing in renewable electricity generation capacity can serve as a basis for prescreening these investments. Beyond the prescreening phase, a full-blown engineering and economic analysis of any investment that passes the prescreening tests will of course be required. While it may be tempting to perform regional analyses to identify promising opportunities for investments, a survey of successful projects indicates that often unique local factors provide an added advantage to the selected technology. In sum, there is clearly substantial latitude for expansion of renewable electricity generation in many countries. The location and the extent of that expansion will depend on many factors including shifting economic conditions, technological improvements, and government policies. As policymakers consider the alternatives, they will need to take into account the

broad impacts of investments in renewable electricity generation, including impacts on the transmission system, the economy (local, national, and international), and national security.

### **Текст для просмотрового чтения (без словаря)**

The use of wind power has numerous advantages. It does not degrade air or water quality, and it does not produce any carbon dioxide (CO<sub>2</sub>) emissions. Unlike many other forms of power generation, it does not require the extraction, transportation, storage, or combustion of fuels. Wind power also uses less water than power generated from fossil fuels. Another advantage of wind power is that it is modular. Utility-scale wind power applications are made up of many modules—turbines—and consequently may be scaled up or down as needed. This means that increases in demand over time may be met by simply adding more modules. The scalability of wind power makes it suitable for powering a single farm, an entire community, or even larger applications.

Wind power presents several advantages specific to rural communities as well. Agricultural areas often have open land that is particularly well-suited to wind power generation. In many cases, landowners can significantly increase their income per acre by hosting a wind plant, and rural communities in resource-rich areas can use wind power as a new source of tax revenue. Further, wind turbines have a small physical footprint, so their installation does not exclude other land uses. Crops may be planted and livestock grazed right up to the base of a turbine.

Another significant advantage of wind power is that it is a well-established and mature technology. This sets it apart from some other renewable power technologies, which are in earlier stages of research and development. The maturity of wind power makes wind one of the most cost-competitive renewable power resources. Although estimates of wind power generation costs vary according to numerous factors, including turbine efficiency and resource quality, costs of 4-6 cents per kilowatt-hour (kWh) are often used as a guideline.

### **Вопросы по теме научного исследования аспиранта:**

1. Why do you want to study this subject?
2. What do you intend to do after you have finished the course?
3. How do you intend to fund your study?
4. Why do I want to do further study?
5. What are the potential pros and cons of postgraduate study that I should consider?
6. What subject will I study?
7. How does postgraduate study differ from undergraduate study?
8. How do I decide where and what to study?
9. What are your greatest strengths?
10. What are your greatest weaknesses?
11. What are your career goals?
12. What skills do you have that will help you succeed on this course?
13. How did you make the decision to apply to our program?
14. What courses have you enjoyed the most?
15. What courses have been most difficult for you?
16. What has motivated you to pursue this academic field?
17. What are your short-term and long-term goals?
18. Which institution did you graduate from?
19. When did you achieve your Master's or specialist degree?
20. What was the subject of your Master's dissertation?
21. Are you still working on the same research topic?
22. Why have you chosen a postgraduate course?
23. What field of science are you currently working or studying in?

24. What do you enjoy most about working in your research field?
25. Do you balance your PhD research with other related employment activities?
26. What is the subject matter of your current research?
27. Do you have a full range of laboratory equipment for your research?
28. What is the relevance of your research, i.e. why is your topic worth researching?
29. What is the aim of your research?
30. What are the objectives (expected outcomes) of your research?
31. What characterisation methods do you apply in your study?
32. Are you familiar with the most important developments in your field of science?
33. Which library services do you use?
34. What sources of information do you consider to be the most reliable?
35. What equipment do you use in your laboratory?
36. What results have you achieved so far?
37. Have you got any publications?
38. Who is your scientific advisor?
39. Have you already started writing your PhD thesis?
40. When do you plan to defend your PhD thesis?



## ЛИСТ РЕГИСТРАЦИИ ИЗМЕНЕНИЙ

Номер изменения	Номера листов			Основание для внесения изменений	Подпись	Расшифровка подписи	Дата внесения изменения
	замененных	новых	аннулирован- ных				