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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 高知工業高等専門学校                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 開講年度                            | 令和06年度 (2024年度)                                                                                                                                                                                               | 授業科目                                                                                                             | テクニカルライティングⅡ                                       |
| 科目基礎情報                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 科目番号                                                                                                                                                                                                                                                                                                                                                                                                                                        | T5006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | 科目区分                                                                                                                                                                                                          | 専門 / 必修                                                                                                          |                                                    |
| 授業形態                                                                                                                                                                                                                                                                                                                                                                                                                                        | 講義・演習                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | 単位の種別と単位数                                                                                                                                                                                                     | 履修単位: 1                                                                                                          |                                                    |
| 開設学科                                                                                                                                                                                                                                                                                                                                                                                                                                        | SD 新素材・生命コース                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 | 対象学年                                                                                                                                                                                                          | 5                                                                                                                |                                                    |
| 開設期                                                                                                                                                                                                                                                                                                                                                                                                                                         | 前期                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | 週時間数                                                                                                                                                                                                          | 2                                                                                                                |                                                    |
| 教科書/教材                                                                                                                                                                                                                                                                                                                                                                                                                                      | Effective Academic Writing 2nd Edition Oxford University Press / Science Research Writing For Non-Native Speakers of English Imperial College Press (Optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 担当教員                                                                                                                                                                                                                                                                                                                                                                                                                                        | ガイン デニス                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 到達目標                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| This course is designed to help-non-native speakers of English to write abstracts of science research papers and graduation theses. Students who take the challenge to write academically often find it difficult to summarize their research. The course is aimed to provide students with not only the rhetorical tools needed to write an abstract, but also with the knowledge to critically evaluate the written quality of abstracts. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| ルーブリック                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ideal Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 | Standard Level                                                                                                                                                                                                |                                                                                                                  | Unacceptable Level                                 |
| Abstract writing                                                                                                                                                                                                                                                                                                                                                                                                                            | Students are able to produce an abstract that has unity and coherence by including all the necessary components of an abstract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Students are able to produce an abstract that has acceptable unity and coherence by including all components of an abstract.                                                                                  |                                                                                                                  | Students are unable to produce an abstract.        |
| 学科の到達目標項目との関係                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 学習・教育到達度目標 (D)                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 教育方法等                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 概要                                                                                                                                                                                                                                                                                                                                                                                                                                          | This is a one semester course. In the first quarter, a review of Technical Writing I will be provided. Especially the concepts of unity (essay and paragraph unity), and coherence, including the strategies to achieve it (parallel forms, using correct pronouns, ordering ideas, using transitions) will be reviewed.<br>After the review of content from Technical Writing 1, the difference between technical essays, academic papers and graduation theses will be made clear. The role and purpose of an abstract will be highlighted. The fact that an abstract should have independent validity as a representation of a research article will be emphasized.<br>At an early stage, students will learn about structure, length, grammar, vocabulary and style of abstracts. There will be no mid-term test. Instead, students will be given a project that requires them to write the abstract of a research article provided to them. |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 授業の進め方・方法                                                                                                                                                                                                                                                                                                                                                                                                                                   | The course will be offered in a blend of in-person teaching and project work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 注意点                                                                                                                                                                                                                                                                                                                                                                                                                                         | Purchase of the book: Science Research Writing For Non-Native Speakers of English Imperial College Press is optional but recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| 授業の属性・履修上の区分                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
| <input checked="" type="checkbox"/> アクティブラーニング                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> ICT 利用 |                                                                                                                                                                                                               | <input checked="" type="checkbox"/> 遠隔授業対応                                                                       | <input checked="" type="checkbox"/> 実務経験のある教員による授業 |
| 授業計画                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                                                                                                                                               |                                                                                                                  |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 週                               | 授業内容                                                                                                                                                                                                          | 週ごとの到達目標                                                                                                         |                                                    |
| 前期                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1stQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1週                              | Introduction to Technical Writing 2 .<br>Review of Technical Writing 1 content.                                                                                                                               | Explain outline and style of course.<br>Remember and understand how essays are structured.<br>Review unity.      |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2週                              | Review of Technical Writing 1 content.                                                                                                                                                                        | Review unity and coherence.                                                                                      |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3週                              | Abstract writing                                                                                                                                                                                              | Structure and models of abstracts                                                                                |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4週                              | Abstract writing                                                                                                                                                                                              | Grammar and vocabulary                                                                                           |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5週                              | Abstract writing<br>Abstract writing - Project I<br>Students form groups of three and are provided with a research article that has no abstract.<br>Students develop an appropriate abstract in their groups. | Phrases<br>Students understand the research article and communicate an appropriate way for writing the abstract. |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6週                              | Abstract writing - Project I<br>Students develop an appropriate abstract in their groups.                                                                                                                     | Students understand the research article and develop an abstract                                                 |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7週                              | Abstract writing - Project I<br>Students develop an appropriate abstract in their groups.                                                                                                                     | Students continue on their project                                                                               |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8週                              | Abstract writing - Project I<br>Students develop an appropriate abstract in their groups.                                                                                                                     | Students continue on their project.<br>Students submit their abstracts.                                          |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2ndQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9週                              | Project I Q&A                                                                                                                                                                                                 | Students present their abstracts and discuss ways of improvement.                                                |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10週                             | Abstract writing - Project II<br>Students form groups of three and are provided with a research article that has no abstract.<br>Students develop an appropriate abstract in their groups.                    | Students understand the research article and communicate an appropriate way for writing the abstract.            |                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11週                             | Abstract writing - Project II<br>Students develop an appropriate abstract in their groups.                                                                                                                    | Students understand the research article and develop an abstract                                                 |                                                    |

|  |  |     |                                                                                            |                                                                   |
|--|--|-----|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|  |  | 12週 | Abstract writing - Project II<br>Students develop an appropriate abstract in their groups. | Students continue on their project                                |
|  |  | 13週 | Abstract writing - Project II<br>Students develop an appropriate abstract in their groups. | Students continue on their project                                |
|  |  | 14週 | Project II Q&A                                                                             | Students present their abstracts and discuss ways of improvement. |
|  |  | 15週 | Test preparation                                                                           | Students are well aware of the content of the test.               |
|  |  | 16週 | Test                                                                                       |                                                                   |

#### モデルコアカリキュラムの学習内容と到達目標

| 分類    |         | 分野                  | 学習内容                | 学習内容の到達目標                                                                                  | 到達レベル | 授業週 |
|-------|---------|---------------------|---------------------|--------------------------------------------------------------------------------------------|-------|-----|
| 基礎的能力 | 人文・社会科学 | 英語                  | 英語運用能力向上のための学習      | 自分の専門分野などの予備知識のある内容や関心のある事柄に関する報告や対話などを毎分120語程度の速度で聞いて、概要を把握し、情報を聞き取ることができる。               | 3     |     |
|       |         |                     |                     | 英語でのディスカッション(必要に応じてディベート)を想定して、教室内でのやり取りや教室外での日常的な質問や応答などができる。                             | 3     |     |
|       |         |                     |                     | 英語でディスカッション(必要に応じてディベート)を行うため、学生自ら準備活動や情報収集を行い、主体的な態度で行動できる。                               | 3     |     |
|       |         |                     |                     | 母国以外の言語や文化を理解しようとする姿勢をもち、教室内外で英語で円滑なコミュニケーションをとることができる。                                    | 3     |     |
|       |         |                     |                     | 関心のあるトピックについて、200語程度の文章をパラグラフライティングなど論理的文章の構成に留意して書くことができる。                                | 3     |     |
|       |         |                     |                     | 関心のあるトピックや自分の専門分野のプレゼン等にもつながる平易な英語での口頭発表や、内容に関する簡単な質問や応答などのやりとりができる。                       | 3     |     |
|       |         |                     |                     | 関心のあるトピックや自分の専門分野に関する論文やマニュアルなどの概要を把握し、必要な情報を読み取ることができる。                                   | 3     |     |
|       |         |                     |                     | 英文資料を、自分の専門分野に関する論文の英文アブストラクトや口頭発表用の資料等の作成にもつながるよう、英文テクニカルライティングにおける基礎的な語彙や表現を使って書くことができる。 | 3     |     |
|       |         |                     |                     | 実際の場面や目的に応じて、効果的なコミュニケーション方略(ジェスチャー、アイコンタクト、代用表現、聞き返しなど)を適切に用いることができる。                     | 3     |     |
|       | 工学基礎    | グローバルゼーション・異文化多文化理解 | グローバルゼーション・異文化多文化理解 | それぞれの国の文化や歴史に敬意を払い、その違いを受け入れる寛容さが必要であることを認識している。                                           | 3     |     |
|       |         |                     |                     | 様々な国の生活習慣や宗教的信条、価値観などの基本的な事項について説明できる。                                                     | 3     |     |
|       |         |                     |                     | 異文化の事象を自分たちの文化と関連付けて解釈できる。                                                                 | 3     |     |
|       |         |                     |                     | それぞれの国や地域の経済的・社会的な発展に対して科学技術が果たすべき役割や技術者の責任ある行動について説明できる。                                  | 3     |     |

#### 評価割合

|                   | Examination | Abstract Writing Project | 合計  |
|-------------------|-------------|--------------------------|-----|
| 総合評価割合            | 70          | 30                       | 100 |
| Weight in percent | 70          | 30                       | 100 |