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# | RESEARCH ARTICLE

# Time Metaphors in English and Arabic: Translation Challenges Reima Al-Jarf

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# | ABSTRACT

Time metaphorical expressions are common in all languages and in general as well as specialized contexts. This study explores the similarities and differences between English and Arabic time metaphorical expressions containing , and the difficulties that student-translators have in translating them; the translation strategies they use and the causes of translation weaknesses. A sample of English and Arabic general and specialized time metaphors containing second ثانية, minute يوم , day , up , year , age, era, and epoch عصر; الدهر , age, era, and epoch , wisi, age, era, and epoch عصر; الدهر , age, era, and epoch , age, era, into 4 categories: (i) those that are identical in form and meaning in both languages (golden age, around the clock); (ii) those that are similar in meaning but differ in wording (wait for ages); (iii) those that exist in English, but have no equivalents in Arabic (time is money); and (iv) those that exist in Arabic but have no equivalents in English (iii) tremors of the day of judgment). Specialized expressions used in both languages are exact translations (Stone Age). Student-translators could translate fewer than 20% of the test items correctly and left many blank. Time metaphorical expressions similar in both languages were easy to translate, whereas opaque ones with an idiomatic or metonymic meaning and culture-specific ones were difficult (من أكل عليه الدهر وشرب) insignificant people talking about crucial issues). Those that require a specialized background knowledge (العصر الطباشيري) Cretaceous Period) were difficult as well. Numerous strategies were utilized in translating the time expression as literal translation, partial translation, paraphrase, using synonyms and extraneous translations. Results and recommendations for translation pedagogy are given.

#### **KEYWORDS**

Time metaphors, Arabic time metaphors, English time metaphors, temporal metaphors, translation problems, culture-specific metaphors, specialized metaphors, general metaphors, time units

## | ARTICLE INFORMATION

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#### 1. Introduction

Time is one of the most abstract concepts of the human mind. According to Lakoff and Johnson (1980), the perception and expression of time are mostly metaphoric due to its connections with other concepts like space, action and events. The concept of time is universal. In its perception and expression, there are personal, cultural differences and universal styleic differences (Erdem, 2010). Time is a concept that has been used in many metaphors throughout history. It is metaphorically structured in different ways among languages and cultures.

Due to the extensive use of time expressions in languages, numerous aspects of time metaphors were investigated by prior studies such as the associations between the chronotype (Morningness–Eveningness) and the dimensions of time Metaphors by Pruszczak, Stolarski and Jankowski (2018) who found that college students' preference for 'morning' was associated with a more positive, friendly view of time, whereas the evening preference was related to the conception of time as negative and hostile.

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Another study focused on the spontaneous use of spatial TIME metaphors in the language of older children and adolescents aged 10–13 years, 14–16 years and 17–19 years to find out if and how types of spatial TIME metaphors and the metaphorical strength of their tokens develop across time focusing on the syntagmatic co-occurrence of multi-word units. Results showed that all children and adolescents, irrespective of their developmental stage, use only highly conventionalized metaphors such as *long time* or *on Monday*. This result suggests that to explain the (developing) use of spatial TIME metaphors. We must turn more to sociocommunicative practices and lexical co-occurrences than to purely cognitive accounts emphasized by the Conceptual Metaphor Theory (Graf, 2011).

In three experiments, Hendricks and Boroditsky (2017) taught English speakers to talk about time in different ways to find out how new space-time metaphors foster new non-linguistic representations. The researchers found that learning new metaphors created new space-time associations that could be detected in a non-linguistic implicit association task. The newly learned representations were not susceptible to verbal interference. With respect to verbal and visual interference, representations that were newly learned from linguistic metaphors behaved just like those that the learners had acquired through years of visual-spatial experiences. All in all, these findings imply that learning a new relational language can be a powerful tool for constructing new representations and expanding the cognitive repertoire of the students.

As for motion time expressions in television news, it was found that motion verbs that are not conventionally associated with time expressions, such as *crawl* & *roll* are used together with more typical ones such as *come* & *approach*. The results suggest that language users are far more creative than has been assumed so far, thus challenging what is typically perceived as an everyday metaphor of time (Valenzuela & Castillo, 2022).

A study by Duffy, 2014) revealed that people automatically access and use spatial representations of absolute time, whereby moving forward in space is parallel with moving later in time. Use of a reverse space—time mapping by the participants caused interference, which is reflected in their temporal reasoning. English exhibits two deictic space—time metaphors: the "moving time" metaphor which conceptualizes time as moving forward towards the ego and the "moving ego" metaphor that conceptualizes the ego as moving forward through time. Moreover, engaging in certain types of spatial-motion thinking may influence how people reason about events in time. This is confirmed by recent research that revealed that people's interactions with cultural artifacts can influence their representations of time.

In Pashto, various conceptual time metaphors in language and poetry were analyzed by Sardaraz, Nusrat and Ab Rashid (2021) based on the Conceptual Metaphor Theory. The researchers found eight time metaphors representations: i) time is an object in motion; ii) time is bounded space; iii) time is a thing; iv) time is a person; v) Time is a measurable quantity; vi) time is a valuable commodity; vii) moments of time are landmarks in space with past in the front, and future is at the back; viii) time passing is tasting it. Unlike English, Pashto speakers locate past time in the front and locate the future at the back.

In Indonesian, time is metaphorically expressed in terms of moving objects, quantities, volume objects, and as a living thing and are not treat time as a commodity. Orientational metaphors are not used either (Indirasari, 2018).

In Japanese, Iwasaki, 2009) applied a cognitive grammar approach to temporal expressions, i.e., time motion 'metaphors to supplement existing metaphor theories. The results emphasized that the order meaning is produced by the ground's objective construal and that this cognitive ability is crucial for comparing two events or persons. The difference between Japanese *saki* and *mae* can be captured by focusing on the ground's subjective/objective interpretation. Thus, it can be said that the Cognitive Linguistic Theory of subjectivity is a useful tool for capturing the properties of Japanese temporal expressions.

A second line of research focused on comparing time metaphors in two or more languages. Time metaphors in the novel Momo by German writer M. Ende are characterized by irreversibility, transience, one-wayness, value, and ability to change the reality. In addition, time metaphors in German and English are not always identical. They are characterized by a careful attitude to the concept of time because people realize its rapidity, and impossibility to stop or turn back. This reflects the inclination of the English and German cultures to punctuality as the highest benefactor, where time is associated with money, and where time is personified. (Dekhnich & Trofimova, 2015)

In American English, Finnish and Hungarian, the two Verbal Time Metaphors (TIME IS A CHANGER and TIME IS A MOVING ENTITY) were compared based on the Cognitive Metaphor Theory to determine which cognitive underpinnings can be traced, with a focus on image schemata, and to find out whether variations in the source domain (CHANGER and MOVING ENTITY) in the three languages is internal. It was found that the source internal variation does prevail over the source external variation. The cross-linguistic differences of such a relevant concept of time do exist but through unique characteristics of the same source domain rather than new, distinctive domains (Máthé, 2021).

In Persian and English, time-related expressions have a very similar conceptualisation. In general, both languages seem to use the same metaphoric structures to express time, with few minor differences. In most cases, both use similar collocations with time words (Golfam, Ghorbanpour & Mahdipour, 2019).

Linguistic structures using phrases and metaphors in English and Uzbek demonstrate that language reflects ethno-semantic peculiarities that are conceptually based on metaphors to express specific cultural meanings of the concept of time in time-specific associations (Djabbarov, 2023).

Analysis of 1,087 Russian and 1,141 Finnish time expressions following the Functional Syntax Approach and the Conceptual Metaphor Theory rendered 56 general meanings that revolve around duration, period of time, point in time, frequency, sequence, passing of time, right time and suitable time, limitedness of time, life as time, and some other notions having less obvious semantic relations to the others. The functional analysis revealed a multiplicity of things that people want to say and actually say about time, the different conceptual metaphors with the help of blending schemata, using them as an aid in explaining hierarchical and other relations between the mappings. The conceptual analysis of time metaphors showed that Time Is Space, Time Is Actor, Time Is Resource, Time Is Life and Time Is Nature. Results show that Russian and Finnish speakers talk about time in a very similar way (Viimaranta, 2006).

Regarding English and Arabic, Hamdi (2008) and Hamdi (2010) reported that both languages share the following conceptual metaphors: time as a bounded space, time as a moving entity, time as a location, time as a starting point/destination, time as an extension, time as a container, time as a bounded space and a moving entity, time and observer as moving in the same direction, time as an object, time as an object that can be given, time as a possession, time as an object that can be shared, time as an object that can be taken, time as an object that one can look for, time as an object subject to loss, time as an object that is needed, time as a qualifiable object, time as an object collocating with us, time as a precious object, time as money, time as a limited resource and time as a person. Some of these conceptual metaphors display variations at the linguistic level. The researcher concluded that English and Arabic have different congruent, i.e., specific level, metaphors. She explained divergence as stemming from physical and historical differences between the English and Arabic cultures.

Other studies examined time metaphors in the Quranic context. Comparisons of the English usage of 'time' metaphors was compared with the Quranic Arabic realizations and their representations in three English Quranic translations by Pickthall, Yusuf Ali and Asad were conducted using the Cognitive Metaphor Theory to identify the version that conveys conceptual metaphors in both languages accurately. Eweida (2007) found that the Quranic translations yielded by Yusuf Ali and Pickthall were more literal and more accurate in rendering metaphors in the Holy Quran, while Asad's translation was less accurate, containing more paraphrasing and individual interpretation.

Moreover, the concept of time in contemporary Western society was compared with that of Islam as embodied in Al-'Aşr Sura in the Holy Quran was compared. The semantic analysis showed that Man is a social human being by nature; Man is time; Islam has the best recipe as to how man, by putting himself in the service of the entire society, becomes a winner not only in this life but also in the Hereafter; and the time continuum in Islam does not end with man's death as disbelievers believe; rather, life after death is a continuation of life on earth (Libdeh, 2016).

From the above review of studies on time metaphors, it can be noted that time expressions, in general, have been extensively investigated in the literature on the basis of the Conceptual Metaphor Theory whether in one, two or more languages. The most common topic investigated in several languages including Arabic is the conceptual time metaphors. However, studies that investigate time metaphor that focus on different time units such as second, minutes, hour, day, month, epoch, era, age, period, millennium, eternity and so on in Arabic are few. Therefore, this study aims to explore the following: (i) English and Arabic time metaphorical expressions containing ثانية second, تا وقت زمن , year, ما وقت زمن , year, ساعة era and epoch; and الدهر between الدهر between الدهر between English and Arabic time metaphorical expressions that contain the aforementioned time units; (iii) the difficulties that student-translators have in translating time metaphorical expressions focusing on the aforementioned time units; (iv) the strategies that students utilize in translating unfamiliar time expressions; and (v) the causes of students' difficulties, i.e., whether mistranslations are interlingual or intralingual.

This study is significant as it sheds light on the different kinds of metaphorical time expressions, focusing on numerous time units, similarities and differences between Arabic and English, in a particular, and problematic areas in translating them.

This study is also significant as it is part of a series of studies conducted by the author with student translators at the College of Languages and Translation that focused on equivalence problems in translating ibn (son) and bint (daughter) from Arabic to

English and vice versa (Al-Jarf, 2023a); cultural, linguistic issues in translating numeral-based English and Arabic formulaic expressions: (Al-Jarf, 2023b); linguistic, translation and cultural problems in translating Arabic and English dar (house) and bayt (home) expressions: (Al-Jarf, 2022b); translating English and Arabic common names of chemical compounds (Al-Jarf, 2022e); translation students' difficulties with English and Arabic color-based metaphorical expressions (Al-Jarf, 2019b); problems in translating Arabic om (mother) and abu (father) expressions (Al-Jarf, 2017a); difficulties in translating English word + preposition collocations to Arabic (Al-Jarf, 2022h); problems of translating English and Arabic binomials by advanced and novice student translators (Al-Jarf, 2016b), in addition to other difficulties such as translating polysemes from English to Arabic and Arabic to English (Al-Jarf, 2022c); interlingual pronoun errors in English-Arabic translation (Al-Jarf, 2010a); English neologisms (Al-Jarf, 2010b); word+particle collocation errors in English-Arabic translation (Al-Jarf, 2007); and grammatical agreement errors in L1/L2 translation (Al-Jarf, 2000).

## 2. Methodology

## 2.1 Participants

A sample of 37 senior translation students at the College of Languages and Translation (COLT), King Saud University, Riyadh, Saudi Arabia participated in the study. The Subjects completed 37 hours of language course (Listening, Speaking, Reading, Writing, Academic Writing, Editing and Revising, Grammar, Vocabulary, Syntax and Morphology); 4 hours of Language and Culture courses; 13 hours of linguistics courses (Introduction to Linguistics, Text Linguistics, Discourse Analysis, Semantics and Pragmatics, and Use of Dictionaries in Translation); 35 hours of translation courses (Introduction to Translation, Computer-Assisted Translation, General Translation from Arabic to English, General Translation from English to Arabic, Political and Media Translation, Problems of Translation, Scientific and Technical, Financial and Economic Translation, Medical, Islamic, Literary, Legal Translation, and a Translation Project); 8 hours of interpreting courses (Simultaneous, Consecutive and Liaison); and 8 hours of Arabic language courses (Academic Writing, Syntax, Stylistics Applications). All the subjects are native speakers of Arabic, with English as their second/foreign language. Their language pairs are Arabic (L1) and English (L2).

#### 2.2 Samples of Metaphorical Time Expressions

A sample of 667 English and Arabic general and specialized time metaphorical expressions containing the topical words and conveying the concept of time and time units دقيقة second, دقيقة minute, يوم hour/watch/clock, يوم day, يوم day, يوم time (singular), الدهر times (plural), حقبة age, عصر era/epoch, الدهر expressions were collected from Al-Maani online dictionary<sup>1</sup>, Arab informants and the author's own collection as a native speaker of Arabic and a translation instructor. Other metaphorical expressions containing the time unit of moment, week, decade, date, generation, season, term, period, century, and millennium were not included in the study.

The English sample consists of 320 time expressions distributed as follows: Time (109); era/age (49); day (44); epoch (31); year (29); minute (27); hour, watch, clock (26); second (5).

The Arabic sample consists of 347 time expressions distributed as follows: The sample consisted of metaphorical expressions containing عام hour, watch, clock (76); عام time/duration (50); عام year (64); عصر (43); عصر (43); عصر (43); ومر/نهار (18); days (2); ثانية (18); days (2);

The Arabic sample was verified by two professors at the Arabic department to make sure that the sample includes time expressions only with their singular and plural forms and variants and does not include mere phrases consisting of time and words. The majority of the Arabic time expressions are common in Standard Arabic, with few Arabic dialects spoken in different Arab countries. The final sample contains the following: (i) general English and Arabic metaphorical time expressions containing دقيقة second, ثانية era, and ساعة era, and ساعة era, and ساعة epoch; الدهر expressions used in astronomy, physics, geology, technology, business, economics, finance, history, Islamic law, and literature and others; and (iii) culture-specific metaphorical time expressions.

#### 2.3 Comparison of the Arabic and English Metaphorical Time Expressions

Each English metaphorical expression containing second, minute, hour, day, year, era, and epoch, was translated into Arabic and each Arabic metaphorical expression containing ثانية second, الدهر hour, يوم hour, يوم hour, يوم day, سنة/عام year, عصر age, era, epoch الدهر and الدهر eternity was translated into English. Then, the time metaphorical expressions were classified and compared. Results of the comparison showed the following:

1) About 31% of the total English and Arabic time expressions are identical in their conceptual basis (meaning) and linguistic form (wording) as in:

<sup>&</sup>lt;sup>1</sup> https://www.almaany.com/

- ; الوقت يمضي بسرعة time is fleeting ; في سياق مع الزمنa race against time; في سياق مع الزمن time: only time will tell; في سياق مع الزمنa race against time; الوقت كفيل بشفاء الجروح/الجراح تشفى/تلتئم مع الوقت wounds; الوقت كفيل بشفاء الجروح/الجراح تشفى/تلتئم مع الوقت a waste of time; الوقت يطير; invest time الوقت invest time; الوقت يطير; a waste of time; الوقت يطير; time to kill الوقت يطير time of clean environment; رمن تخيلي ;time tof clean environment رمن البيئة النظيفة ;timaginable time رمن تخيلي ;physical time رمن البيئة النظيفة time game.
- o **Second**: in a matter of seconds في ثوان .
- . دقيقة مشي a minute's silence ;كل دقيقة تفرق Every minute counts , دقيقة صمت a minute's silence .
- o **Day**: Day of Judgment ; في هذا اليوم ; In this day and age ; يوم القيامة , في هذا اليوم . .
- o **Hour**: Working hours ساعات الدوام; Peak hours بعد الدوام; man of the hour رجل الساعة; بعد الدوام; business hours ساعات العمل/الدوام.
- on the hour. على رأس الساعة ; الساعة البيولوجية ; Biological clock على رأس الساعة ; الساعة البيولوجية
- o Age: Golden age العصر; Middle age crisis العصر الذهبي; Middle age crisis
- o الماعة جيب "digital watch/clock وقّاص السّاعة وأفض wall clock; ساعة وهيّة الماعة وهيّة الماعة وقيّة الماعة وقيّة الماعة وقيّة الماعة وقيّة الماعة وقيّة water clock; ساعة الماعة وقيّة talking clock; ساعة وقيّة stop watch; على مدار السّاعة stop watch ساعات غير around the clock; على مدار السّاعة rush hours; ساعات اللازدحام man of the hour; ساعات الخدمة support hours; ساعات اللازدحام business times; ساعة العمل working hours; ساعة العمل working hours; ساعة القروة at the hour, Middle Zero, H- hour, Ache- hour; على رأس الساعة issue of the hour; السّنة الدِّراسيّة issue of the hour; قضيّة السّاعة السّاعة السّاعة القراسيّة issue of the hour;
- 2) About 7% of the total English and Arabic time expressions are the same in their conceptual basis, but different in their linguistic for as In: A minute longer قليل من الوقت; A minute sthought ليخطة للتفكر; A minute-by-minute account قليل من الوقت; A minute-by-minute account ليوم, يوميا; At the end of the day: Ultimately; when everything has been considered; Day in, day out ليوم, يوميا خيرة وكل يوم, يوميا إلى المنظقة; Day one إلى المنظقة; Every dog has its day لواحد له يومه لله إلى المنظقة; Every dog has its day مجرد دقائق إلى المنظقة; Sick days مجرد دقائق; It's just a matter of seconds الله إلى المنظقة; Sick days الله المنظقة; The happy hours of life ألى المنظقة; The minute you walk in the door المنظقة عن المناطقة المناطقة; The off-hours ألوقات الراحة/الاستراحة; The off-hours كل شيء يظهر مع الوقت المناطقة; Time Tells all يوم نكد (دقيقة بدقيقة بمحسوبة بالدقيقة محسوبة بالدقيقة عمسوبة المناطقة) على المناطقة المناطقة
- 3) About 31% of the time expressions in the English sample exist in English only and have no equivalents in Arabic as in the following examples: a whale of a time خات بالمدرسة المدرسة والمعافقة بالمدرسة المدرسة ال
- 4) About 57% of the time expressions in the Arabic sample exist in Arabic only and have no equivalents in English as in the following: زلزة الساعة tremors of the Day of Judgement; مثل الساعة tremors of the Day of Judgement; ساعة الفصّل punctual; المحتفاء المحتفظة (Imam Mahdi); ساعة العصر المحتوفة العصل والوصل became miserable; وما العصر والزمان الوصل judgement; العصر والزمان والوصل judgement; العصر والزمان الوصل judgement; ومن العار judgement; والزمان of his times; إلى المحتوفة المحتوفة إلى المحتوفة الم
- 5) About 21%) of the total English and Arabic samples are specialized time expressions that are exact translations in both languages:
  - o In English: Epoch of blockchain technology بسلسلة الكتل لتتبع حركة البضائع بين الموردين والمشترين, The epoch of virtual بعصر الواقع الافتراضي; The epoch of renewable energy عصر الطاقة المتجددة; The epoch of aviation عصر الواقع الافتراضي; The epoch of exploration في عصر الحركة الرومانسية; The epoch of the Romantic movement عصر الدركة الرومانسية; Stone Age إلعصور الوسطى, Stone Age إلعصور المظلمة; Stone Age عصر النهضة إلعصور الوسطى; Stone Age إلحجري إلعصور الدكاء الاصطناعي; Popoch of artificial intelligence بالحجري وpoch of artificial intelligence عصر الحوسبة الكمية; the epoch of gene editing عصر تحرير the epoch of the Cold War إلعصور الفحمي أو الكربوني ;عصر الحرب الباردة The Epoch of the Cold War ;الجينات

العصر الذهبي ;Modern Age عصر الحديث ;عصر الفضاء Lee Age; Space Age عصر الجليدي ;Ancient times عصر المعرباء ;Ancient times عصر المعرباء ;Ancient times عصر المعرباء ;Ancient times عصر المعرباء ;The era of electricity عصر المعلوبية ;The Information Age عصر الجاهلي ;Ancient times الاستبداد وقْف;Pre-Islamic era على البرونْزيّ ;Steam Age عصر البخار [Pre-Islamic era عصر البخالية] عصر البرونْزيّ (Bonanza year العصر البرونْزيّ Alpha minute عصر البخالية إلى المعرب المعرب المعرب عصر المعرب على المعرب عصر المعرب المعرب المعرب المعرب عصر المعرب المع

# 6) Culture-specific expressions as in the following:

- o English examples: happy hour استراحة لشرب الكحول; time steals (time passes quickly and opportunities can be lost if not taken advantage of); time is death; time is wisdom; time is money; a devil of a time; a legend in one's own time; a whale of a (good) time; Time Is ages and eons; Groundhog Day; Independence Day; Memorial Day; Labor Day; Mayday! Mayday! Mayday; Out with the old, in with the new; In a New York minute; Seven-year itch; in the year of our Lord عصر ; An Edwardian era; An Elizabethan era.
- جار . (in the Quran, it was became miserable; يوم الظلة became miserable; عقا عليه الزَّمَن wise men; عقا عليه الزَّمن became miserable; يوم الظلة became miserable; عقا عليه الزَّمن wise men; عقا عليه الزَمن became obsolete; عليه bad time; يوم الظلة bedam miserable; عليه النومان dawn tine; الفجر dawn tine; يوم bad time; الفجرة dawn tine; الفجرة a hot day, so God sent a cloud for them to stand under it; ساعة الفجرة greatest/best time; ساعة شؤم greatest/best time; المعتالة العسرة greatest/best time; المعتالة العسرة signs of the end of times; العسرة sign of the Day of الأخيرة signs of the end of times; على الماحة signs of the end of times; على الماحة signs of the end of times; على الماحة Judgments; عام المواحق serious moment; عام الرمادة Judgments; عام الرمادة serious moment; عام الوفود Judgments; عام الجزن serious moment; عام الوفود Year of Grief; عام الجزن year of the Elephant? الفيل Year of the Elephant? عام الحزن Year of Grief; عام القهوة السعودية year of Saudi Coffee; عام اللابل Year of Camels; عام القهوة السعودية year of Arabic Poetry. Other metonyms that refer to times of drought, no rain and no crops are عام القهوة السعودية أشخَمْ عامُ أَسْمَرُ عامُ أَسْمَرُ عامُ أَرْقَقُ عام دغوق عام دغرق Al-Murabitoun عصر هارون الرشيد Abbasside Period? العصر والزمان Pre-Islamic والزمان Abado of his times; العصر الجاهلي head of his times; عام العصر والزمان ahead of his times; العصر الجاهلي day and night العصرة والإمان arternoon prayer العصر الجاهلي pre-Islamic era.

The percentages of time expressions in each category were computed. Translations, comparisons and categorization of English and Arabic time expressions were verified by two professors of English-Arabic translation. Discrepancies in the analyses were solved by discussion.

#### 2.4 The Time Metaphorical Expressions Translation Test

The subjects took a time expressions test that consisted of 40 English and 45 Arabic time expressions that were randomly selected from the English and Arabic time expressions sample collected and which covered time expressions in all time units. The items were presented in isolation as presenting them in context would help the students understand the expressions and infer their meanings. The test instructions specified what the test items were. As a reliability check, few expressions were given in both Arabic and English time. The students were asked to translate each English time expression to Arabic and each Arabic time expression to English. The subjects were not allowed to use any kind of dictionary, whether paper, online or mobile dictionary apps. The students were given open time to respond to the test.

#### The English Subtest (40 items)

a devil of a time; a legend in one's own time; a minute-by-minute account; a race against time; a whale of a time; a year in review; an Edwardian era; around the clock; at the end of the day; behind its time/the times; buy time; dark ages; day in and day out; day off; day out; dog days of summer; every minute counts; fiscal year; from this day forward; happy hour; Labor Day; Memorial Day; only time will tell; senior year; seven-year itch; take a minute; the epoch of exploration; the epoch of renewable energy; the golden hour; the happy hours of life; the minute you walk in the door; time is fleeting; time is money; time steals; time stops for no man; time tells all; time's up; to have too much time on your hands; to turn back the hands of time; waited for ages.

#### The Arabic Subtest (45 items)

;ساعة الذِّروة ;ساعة الجد ;ساعات الصفاء ;ساعات الازدحام ;سابقٌ لعَصْره ;زمن العار ;زمان الوصل ;روح العَصْر ;رقّاص السّاعة ;رَجُل السّاعة ;عام الأمم المتحدة للتسامح ;سنة سوداء ;ساعته الأخيرة ;ساعة العسرة ;سَاعَةُ الصِّفْر ;ساعة غضب ;ساعة شؤم ;ساعة الفجر ;ساعة الغفلة زلزلة ;مثل الساعة ;قضيّة السَّاعة ;على مدار السَّاعة ;على رأس الساعة ;علامات الساعة ;عصر الْمَعْلُومَاتِيَّةِ ;العصر الجاهلي ;عام الجوع العالمي ;صاحب العصر والزمان ;سوق ما بعد ساعات عمل البورصة. ;سنة انقلابيّة ;سنة كبيسة ;السَّنة الشَّمسيَّة ;ساعة رملية ;ساعة الحساب ;الساعة عَصْرُ الْمُرَابِطِينَ ;ابرك ساعة ;سنة حمراء ;العصر الطباشيري ;يوم الظلة ;وقت السحر ;عفّا عليه الزَّمَن ;عضَّه الدَّهْرُ بنابه ;عام الرمادة ;عام الحزن

#### 2.5 Analysis of the Translation Test Responses

The subjects' written responses to the time expressions test were marked by the author. To be marked correct, each English and Arabic time expression had to be translated correctly, either by an equivalent time expressions or an explanatory equivalent. To find out the strategies that the subjects used in translating time expressions, mistranslations were compiled and subjected to further analysis. Translation strategies were classified into: (i) Avoidance, i.e., leaving some items blank with no responses; (ii) literal translation; (iii) use of synonym; (iv) partial translation; (v) Explanation, i.e., paraphrase; (vi) partial translation; and (vii) providing extraneous equivalents. The time metaphor translation error corpus consisted of a total of 1970 blank responses, 363 correct responses and 545 incorrect responses. Results of the students' correct and incorrect responses are reported quantitatively and qualitatively.

#### 2.6 Reliability

Reliability of the metaphorical time expressions test scores was calculated using the Kuder-Richardson 21' formula as it estimates the internal-consistency of the test items from a single administration of the test. The reliability coefficient of the test scores was .72. Inter-scorer reliability was also calculated by having a colleague who taught translation mark a sample of students' responses to the translation test and by comparing both markings. There was a 96% agreement between the two scorers in identifying meanings and expressions available in both English and Arabic and those that are available in one language only and classifying the faulty responses into translation strategies. Disagreements were solved by discussion.

#### 3. Results

#### 3.1 Students' Responses to the English and Arabic Time Expressions Test

The translation test results showed that undergraduate translation students rendered 1970 blank responses. The typical student in the sample left 62% of the English test items and 70% of the Arabic test items blank. Examples of the test items that many students left blank are a devil of a time; a legend in one's own time; dog days of summer; senior year; the golden hour; time steals; day in and day out; a minute-by-minute account; a whale of a time; a year in review; t[o have too much time on your hands and ساعة العسل ; عضاً عليه الرَّمَن ;عضاًه الدَّهُرُ بنابه ; ساعة رملية; ساعة الغفلة ;علامات الساعة ;الرمادة ;الرمادة ;الرمادة اللوييضة ;الرمادة .

In addition, student translators in the current study responded to 35% of the items on the test of which 15% were correctly translated (8% of the English items and 7% of the Arabic items) and 20% were incorrectly translated. These include time expressions that are identical in form and meaning English and Arabic as in the following examples: a race against time في بيوم الحزن بيوم الحزن إلى العصور المظلمة (Day of Judgment على مدار الساعة (Day of Judgment) على مدار الساعة (Day of Judgment) على دقيقة تفرق (Day of Judgment) على دقيقة تفرق (Day of Judgment) بياون إلى المعالمة (Day of Judgment) بيوم القيامة (Day of Judgment) بيوم القيامة (Day of Judgment) بياون المعالمة (Day of Judgment) بياون المعالمة المعالمة (Day of Judgment) بياون المعالمة المعالمة (Day of Judgment) بياون (Day of Judgm

It is noteworthy to say that few students gave remarkable translation such as at the end of the day في نهاية المطاف ; The good old days في نهاية المطاف ; time tells all نهيه للذي الأيام الخوالي ; this day forward الأيام من الآن فصاعدا ; this day forward الأيام الخوالي ; كنت جاهلا Age of Informatics.

On the contrary, time expressions with an idiomatic meaning were more difficult than those that have a more transparent meaning as in the following cases:

(i) **Opaque** expressions as a devil of a time وقت صعب/أيام صعبة; a whale of a time وقت ضعب/أيام صعبة; Dog days of summer: The hottest days of summer; seven-year itch الوقت فبل ; the golden hour الوقت فبل ; the golden hour الوقت فبل ; time steals; عنو infected with problems; غنوب الشمس وبعد شروق الشمس وبعد شروق الشمس (insignificant people talking about crucial matters); عن a very old person; a devil of a time; a legend in one's own time; a whale of a time; buy time; Dog days of summer; Every dog has its day; time steals; To have too much time on your hands; To turn back the hands of time.

- (ii) **Culture-specific** ones such ساعة الحساب ;يوم الظلة; علامات الساعة ;عام الرمادة ;عام الحزن ;صاحب العصر والزمان (يوم الظلة; علامات الساعة علم الرمادة ;عام الحزن ;صاحب العصر والزمان (يأمان tife's ups and downs أهل زمان بن wise men; أهل زمان وحالة الساعة أساطين الزَّمان إلاَّمان what distinguishes a period of time; عليه الزمان time of shame. وح العَصْر a moment of inattentiveness; ساعة شؤم bad time; ساعة شؤم bad omen; ساعة غضب a moment of anger; البن ساعة العلم blessed moment; ابن ساعته blessed moment; الرك ساعة when loved ones وساعة وسوداء transient, last for a short time; كالمناف الموالية وساعة when loved ones were re-united; happy hour; Labor Day; Memorial Day; seven-year itch.
- (iii) Time expressions that require a specialized background knowledge as in سنة ;السَّنة الشَّمسيَّة ;ساعة رملية ;ساعة الحساب astral year, the epoch of exploration; the epoch of renewable energy were difficult.

In general, the students had more difficulty translating Arabic time expressions to English than English time expressions to Arabic. One of the most difficult items on the test was زمن الرويبضة، صاحب العصر والزمان، عام الرمادة، أساطين الزمان as 91% of the students left them blank, i.e., the students failed to give a response and only 9% could translate them correctly.

#### 3.2 Strategies Utilized in Translating Time Expressions

Analysis of the error data revealed some strategies that the students utilized as follows:

- **1) Avoidance**, i.e., providing no response to 65% of the English and Arabic time expressions on the test which probably mean that those expressions are not familiar as mentioned in section 4.1 above.
- **2) Literal translation:** here the students gave a word-for-word translation of the time expressions in the target language although most expressions have an idiomatic or metonymous meaning. The following are some examples:
  - يسرق الوقت Time steals
  - o Memorial Day يوم الذكرى
  - o The golden hour الساعة الذهبية
  - . شراء الوقت ;يشتري وقت :Buy time
  - o A legend in one's own time وقت خرافي
  - . rather than; وقت مرح ;وقت انبساط ;وقت سعيد ;ساعة السعادة ;ساعة سعيدة : rather than
  - o Labor Day يوم العمل
  - $_{\odot}$  The golden hour: ساعة من ذهب $_{\odot}$ الساعة الذهبية $_{\odot}$ ساعة من ذهب $_{\odot}$
  - . الأيام الجميلة القديمة الأيام القديمة الجيدة :The good old days
  - o Time is money: الوقت هو المال
  - o Dog days of summer أيام مخصصة للكلاب في الصيف
  - خارج الوقت، خارج الزمن Time out o
  - o ساعة رملية sand clock; clock in the sand
  - o اسنة سوداء: black year; dark year rather than (year with hard luck).
  - o أهل زمانه his family times
  - clock dancer رقّاص السّاعة
  - o علامات الساعة Signs of the hour
  - o عصر الْمَعْلُومَاتِيَّةِ Age of information عصر الْمَعْلُومَاتِيَّةِ
  - o سنة انقلابيّة revolution hour
  - o مثل الساعة like the clock
  - o يوم الظلة shade day, shady day.
  - o زمن العار shame time
  - o ساعة غضب angry hour
  - owner of age and time صاحب العصر والزمان
- 3) Use of **Synonyms** as in the following responses:
  - o Day in and day out يوم للخروج;يوم دخول ويوم خروج
  - o A whale of a time حوت الوقت
  - o A minute-by-minute account حساب كل دقيقة بدقيقة
  - o A devil of a time شيطان الوقت
  - وم الموظفين زيوم العاملين ;عيد العمل Labor Day
  - عصر الاكتشافات; عصر الاكتشاف The epoch of exploration
  - ذكريات الماضي الجميل ;ذكريات جميلة ;أيام قديمة لا تنسى :The good old days

- o ساعات الازدحام rush hours; peak hours; peak time; rush time.
- o ساعة الجد serious time; Serious hour;
- صاعة الفجر morning time; morning hour; early morning hour.
- o ساعة شؤم unlucky hour; unlucky time; bad hour.
- o عام الحزن Year of sadness; Year of sorrow; year of upset;
- o عام الأمم المتحدة للتسامح United Nations forgiveness year; United Nations forgiving year
- o عام الجوع العالمي International Hunger Year; Starvation Year
- o العصر الطباشيرى chalk period; chalk age
- o عصر الْمَعْلُومَاتِيَّة Information Age; Information time; information period.
- o على مدار السَّاعة : around the hour; all the time;
- o قضتة السَّاعة case of the hour;
- o مثل الساعة accurate; on time
- **4) Paraphrase** where the students gave several explanatory equivalents with varying syntactic structures. Here the students knew what the expression means but failed to provide an exact equivalent as in the following examples:
  - o Memorial Day اليوم الذي يتذكر فيه الامريكان من ماتوا في الحروب
  - م يخرج فيه الناس للنزهة والترفيه day out
  - o Waited for ages ينتظر مدة طويلة
  - o Dark Ages: time long ago when Europe was backward.
  - o Around the clock على مدى 24 ساعة
  - o Time is money يجب استغلال الوقت لأنه وسيلة لكسب المال
  - حين تكون الساعة 6 أو 7 أو 8 On the hour
  - a market that starts after the stock market is closesd سوق ما بعد ساعات عمل البورصة
  - on-Muslim period; before Islam period; before Islam age; before Islam time. العصر الجاهلي
  - o ساعة رملية clock in the sand;
  - o ساعة الفجر early morning
  - o ساعات الازدحام crowded streets; heavy traffic; bad traffic.
  - o عام الجوع العالمي hunger in the world
  - o تقلّبات الدَّهْر problems in life
  - o زمان الوصل when people communicated with each other.
  - o ساعة الحساب when people account for they have done
  - o ساعة العسرة difficult times during Prophet Mohammad's time
- 5) **Partial translation** where the students translated part of the expression only as in:
  - o The epoch of exploration الاكتشافات، الاكتشاف
  - o The epoch of renewable energy الطاقة الجديدة، عصر الطاقة
  - o The good old days:الأيام القديمة , الأيام الحلوة
  - o To have too much time on your hands لديه الكثير من الوقت
  - eat and drink أكل عليه الدهر وشرب

  - o ساعات الازدحام crowded
  - o عام الجوع العالمي Starvation Year
  - o عصر الْمَعْلُومَاتِيَّة Information
  - o قضيّة السَّاعة right now
  - orgiveness year عام الأمم المتحدة للتسامح o
- **6) Extraneous translation** (faulty guessing) was a strategy that some students resorted to in translating the English and Arabic time expressions. Here the students gave a translation that is too far-fetched and has nothing to do with the denotative nor connotative meaning of the time expression as in the examples below:
  - o Buy time: يكسب الوقت (gain time).
  - وم الموظفين، استراحة من العمل، يوم التوقف عن العمل Labor Day
  - o senior year سنة كبيرة
  - o Time out الوقت
  - o أكل عليه الدهر وشرب eat and drink for a long time.
  - crowds ساعات الازدحام 。
  - o ساعة الحد hard working; it's time to work hard
  - o ساعة الفجر early morning prayer

- o ساعة سوداء black watch; black clock; black time.
- o عام الرمادة Year of ashes
- o العصر الجاهلي Ignorance Year; non-Muslim period; before Islam period
- o قضيّة السَّاعة right now
- o مثل الساعة like clock; on time; like hour
- o وقت السحر *magic time* rather than *dawn time*
- non-Muslim period; before Islam period; or none as in translating epoch, era, period & age into عصر الاكتشافات , عصر الالاكتشافات , عصر الاكتشافات , عصر الاكت

#### 3.3 Sources of Translation Difficulties

The students' translation errors reflect lack of proficiency, inadequate linguistic and translation competence and insufficient background knowledge in both Arabic and English. Expressions that were left blank, extraneous equivalents, and literal translations reflect problems in comprehending the semantic meaning of the source expression, i.e., the students have semantic problems. Here, the students looked at each time expression as consisting of discrete words, rather than a whole unit with a specific idiomatic and/or metonymous meaning. This means that some students looked at the surface structure of the time expression and ignored its underlying meaning. For example, some students had semantic problems with some English expressions as a devil of a time; a legend in one's own time; a whale of a time; buy time; dog days of summer; senior year, the golden hour and others. Similarly, they seem to be unfamiliar with some Arabic expressions and concepts which have an idiomatic meaning and should be translated as a bloc sequence without breaking the compound into single words as in أساطين الزَّمان , صاحب العصر والزمان , زمن الرويبضة , أساطين الزَّمان , صاحب العصر والزمان , زمن الرويبضة , and others shown in section 4.1 above.

Moreover, analysis of the translation errors revealed that more than 85% of the students failed to give the correct equivalent to depth and some interest equivalent to probably not in their specialized lexicon. Translation errors also show lack of background knowledge of the Arabic culture and history (الحزن عام ) related to some old expression (أساطين الزمان، تقلُّبات الدَّهْر، أكل عليه الدهر وشرب) on the test. Likewise, the students had difficulty accessing the meaning of specialized expressions, although many have a one-to-one correspondence in English and Arabic (See section 4.1 above).

In some cases, lack of comprehension of the source expressions and structures, especially in the case of compounds, resulted from inadequate syntactic and morphological knowledge. The students had problems comprehending the word worder of the English expression, the function of each element of the compound to be translated and matching the correct part of speech of the English source expression with that of the Arabic equivalent. Some compounds consist of a Noun + an Adjective as in الطاقة المستجدة العلم but was translated into sun year (Noun + Noun) rather than solar year (Adjective + Noun). Renewable energy was translated as الطاقة المستجدة & الجديدة instead of instead of instead of their equivalents in Arabic, in addition to their unfamiliarity with the correct form of the technical term that is commonly used in Arabic.

Similarly, the students seem to be unfamiliar with and have inadequate knowledge of Arabic derivation and the difference between different derived nouns/forms such as & localized horizon which one is commonly used in a particular context especially in technical terms and should be used as an equivalent to *epoch of exploration* which is localized. Likewise, they should know the difference in meaning between & anxies & anxies in *renewable energy*.

## 4. Discussion

The translation problems that undergraduate student at COLT have in translating time expressions in the current study are similar to those that other groups of translation students at COLT have in translating other types of formulaic, idiomatic and metaphorical expressions such as translating ibn (son) and bint (daughter) fixed expressions (Al-Jarf, 2023a); numeral-based formulaic expressions (Al-Jarf, 2023b); dar (house) and bayt (home) expressions (Al-Jarf, 2022b); color-based metaphorical expressions (Al-Jarf, 2019b); om- and abu-expressions (Al-Jarf, 2017a); *English and Arabic binomials* (Al-Jarf, 2016b); and common names of chemical compounds (Al-Jarf, 2022e). Similarly, the strategies that undergraduate student translators in the current study employed in translating time expressions are partially similar in type but differ in frequency to those that other groups of translation students at COLT utilized in translating other types of multi-word expressions as in translating polysemes (Al-Jarf, 2022c); English word + preposition collocations (Al-Jarf, 2022h); word+particle collocations (Al-Jarf, 2009b); English and Arabic plurals (Al-Jarf, 2020c; Al-Jarf, 2022d); English suffixes and derived forms (Al-Jarf, 2019a; Al-Jarf, 2016a); Arabic equivalents to English medical terms (Al-Jarf, 2019a; Al-Jarf, 2016a); Arabic equivalents to English medical terms (Al-Jarf, 2019a; Al-Jarf, 2016a); Arabic equivalents to English medical terms (Al-Jarf, 2019a; Al-Jarf, 2016a); Arabic equivalents to English medical terms (Al-Jarf, 2019a; Al-Jarf, 2016a); Arabic equivalents to English medical terms (Al-Jarf, 2019a; Al-Jarf, 2016a); Arabic equivalents to English medical terms (Al-Jarf, 2019a; Al-Jarf, 2016a); Al-Jarf, 2019a; Al

2018); English neologisms (Al-Jarf, 2010b); interlingual pronoun errors (Al-Jarf, 2010a); SVO word order errors (Al-Jarf, 2007); and grammatical agreement errors (Al-Jarf, 2000). In all of those studies, the most common translation strategy was literal translation, partial translation, use of synonyms, paraphrase, and extraneous translation. In all the studies, the students tended to translate multi-word expressions and structures imitatively rather than discriminately.

In addition, the strategies used in translating time expressions in this study are partially similar to those employed in translating idioms in other prior studies such as Smadi and Alrishan's (2015) study which found that paraphrase was the most efficient strategy utilized by EFL Jordanian graduate students in translating opaque idioms. Smadi and Alrishan added that the variety of strategies used in translating English idioms to Arabic reflected differences in the students' linguistic and pragmatic competence and their unfamiliarity with those idioms. Moon (1998) emphasized that "opaque metaphors" cannot be understood without knowledge of their historical origins. This is true of some Arabic and English time expressions in the current study that require historical knowledge of the expressions as in the examples given above.

Moreover, findings of the current study are consistent with a study by Alsadi (2016) in which Qatari EFL students had difficulties in comprehending and producing English metaphorical expressions due to their unfamiliarity with the English culture, and their inability to distinguish metaphorical and literal structures. In Zibin's (2016) study, Jordanian EFL college students had difficulty in comprehending metaphorical expressions in English. The students' receptive knowledge of metaphors varied according to the metaphor type. The easiest for Jordanian students were those that have the same conceptual bases and linguistic expressions in English and Arabic (85%). Metaphorical expressions that have equivalent conceptual bases in English and Arabic, but completely different linguistic expressions were easy to recognize as well (81%). Those that have different conceptual bases and linguistic expressions in English and Arabic, and those in which the conceptual bases are culturally neutral elicited a good number of correct responses (71%). Metaphorical expressions that are conceptually and linguistically different in both languages resulted in a significantly lower number of correct translations (52%). Those that have a completely different conceptual basis in English and Arabic, but are similar in linguistic expression, i.e., form, were the most difficult. Zibin asserted that formulaic expressions with a metaphorical meaning are opaque as their conceptual basis reflects the encoding of a culture-specific meaning.

Charteris-Black (2002) found that figurative expressions, with an equivalent linguistic form and conceptual basis, were easier for Malaysian EFL students, whereas those with a different conceptual basis and an equivalent linguistic form and with culture-specific expressions that have a different conceptual basis and a different linguistic form were difficult. In processing unfamiliar metaphorical expressions in L2, the students referred to the conceptual basis in their native language.

The translation strategies that students in the present study employed in translating time expressions are similar in type but differ in the degree of difficulty compared to those utilized by Jordanian students in Zibin's (2016) and Smadi and Alrishan's (2015) studies, by Swedish students in Sandgren and Stewart's (2014) study and by Malaysian students in Charteris-Black's (2002) study.

Other prior studies in the literature revealed that L2 students find formulaic expressions difficult in listening to academic lectures in English (Littlemore, Chen, Koester & Barnden, 2011; Littlemore, 2004) and in reading specialized academic material (Sandgren & Stewart, 2014). Foreign language and translation students, in general, face challenges in comprehending and translating metaphorical and fixed expressions regardless of their proficiency levels in L1 and L2.

Furthermore, the most common cause of comprehension problems was cultural richness, not the type of metaphorical expression because comprehending metaphorical expressions in two languages requires the utilization of four main strategies that L2 readers use: (i) prior knowledge; (ii) Context decoding; (iii) guessing, and (iv) translation. Such strategies require bottom-up and top-down processing. Prior knowledge includes everything that a reader may bring to the text, such as general knowledge of the world, cultural knowledge, topical knowledge, specialist knowledge and (Sandgren & Stewart, 2014). Background knowledge, in particular, is extremely important for translating time expressions. In this respect, Anderson, Reynolds, Schallert, and Goetz (1977), argued that "language comprehension always involves utilization of one's knowledge of the world", and that "many problems in reading comprehension result from inadequate background knowledge rather than inadequate linguistic skills".

Finally, mistranslation strategies that students in the current study used reflect insufficient knowledge of English and Arabic time expressions, what they mean, lack of conceptual basis and historical knowledge which have resulted in an inadequate ability to comprehend, match and transfer meaning from Arabic to English and vice versa. In addition, the subjects had insufficient knowledge of both English and Arabic cultures and history. In this respect, Al-Kharabsheh (2003) asserted that the students' poor linguistic competence, their poor contrastive analysis skills, poor translation competence, the varying degrees of opaqueness, insufficient translation experience and practice give rise to a wide range of mistranslations of Arabic and English metaphorical expressions. Students' difficulty with time expressions may also be due to inadequate instruction or no instruction on such topics and issues.

#### 5. Recommendations and Conclusion

Undergraduate student-translators in the present study have considerable difficulty in providing correct English equivalents to Arabic time expressions and correct Arabic equivalents to English time expression, especially those that have no one-to-one correspondence, are metonyms, idioms, culture-specific, have a specialized meaning and/or are unfamiliar lexical items. To help the students translate time expressions correctly, the current study recommends that translation instructors raise students' awareness of the similarities and differences between English and Arabic time expressions, their idiomatic meaning, and how to translate those that do not exist in English and/or Arabic (Al-Jarf, 1994; Al-Jarf, 1996; Al-Jurf, 1994).

Translation students should take into consideration that there is no one to one correspondence in the translation of time units used in English and Arabic. For example, *minute* and *second* may be translated as *moment* in Arabic; ساعة may be translated as *hour, watch or clock* in English; in some contexts, نهار in some Arabic dialects means *day*; *age, era, epoch,* and *time period* may be interchangeably translated into عصر حقبة; and وقت زمن and be translated as *time,* or *times*.

In translating time expressions to Arabic, students should take into consideration their idiomatic meanings. Since in most expressions, there is no on-to-one correspondence between Arabic time expressions and their English equivalents, fixed equivalents should be used without translating each word in the phrase. That is, students should translate time expressions as bloc sequences without breaking the compounds into single words. They may use explanatory equivalents in transferring the meaning of metonyms and idioms and pay attention to the syntactic and morphological structure of the English expression.

When confronted with unfamiliar time expressions, the students can look up their definition in English and Arabic online dictionaries to understand the meaning and convey it in the target language (Al-Jarf, 2022g; Al-Jarf, 2020a; Al-Jarf, 2014). They should not resort to Google Translate as it gives the literal meanings of metaphorical expression, idioms and metonyms as discrete words, not as a block sequence that has an idiomatic and metonymous meaning especially in the case of English and Arabic, where compounds differ in word order (Al-Jarf, 2021; Al-Jarf, 2016a).

English and Arabic time metaphorical expressions can be integrated into Contrastive Analysis, Semantics and Pragmatics courses that the students take. Some English and Arabic time expressions can be added to the English vocabulary courses and the Arabic language courses that students take in the translation program at COLT. Direct instruction on expressions of time expressions in translation and interpreting courses should be given.

To promote students' proficiency level in English grammar, syntax, morphology, spelling, Arabic derivational patters and their competence in translating time expressions, online grammar tasks, combining writing and grammar activities, online courses, video-conferences using Elluminate, Zoom, WebEx, Microsoft Teams, google Classroom and so on, social media networks such as Platform X and Facebook, blogs, mobile apps and YouTube videos can be used for extra practice individually and collaboratively, in and outside the classroom. A multiple-associations approach to teaching and learning terminology containing time units, grammatical structured and time expressions can be followed (Al-Jarf, 2005; Al-Jarf, 2006; Al-Jarf, 2009a; Al-Jarf, 2017b; Al-Jarf, 2013; Al-Jarf, 2020a; Al-Jarf, 2022a; Al-Jarf, 2020b; Al-Jarf, 2022f). Language and translation instructors can use mind-mapping software to connect time expressions, terminology containing the different time units, derivatives, homophones, homographs, metonyms, suffixes, prefixes and roots which the students confuse (Al-Jarf, 2015; Al-Jarf, 2011; Al-Jarf, 2006).

The students may read literary and specialized material in technology, business and others in both English and Arabic and note the usage of second, minute, hour, day, month, year, era epoch, age, time period, eternity. They should also note the usage of time expressions in everyday language and keep a note of them. They are advised to make their own categorized lists and glossaries of different kinds of English and Arabic metaphorical expressions, including kinship terms such as second, minute, hour, day, month, year, epoch, and age expressions (Al-Jarf, 2018).

Finally, other multi-word and fixed temporal expressions that contain English millennium, century, centennial, period, decade, duration, season, term, time period, a while, interval, stage, phase, date and Arabic فترة ، عقد من الزمن، فترة، فصل دورة، عهد، ألفية ، مأوية ، قرن and others in the light of theories such as the Functional Syntactic Approach, the Conceptual Metaphor Theory, and the Cognitive Grammar Approach are still open for investigation by Arab researchers in the future.

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#### References

- [1] Al-Jarf, R. (2023a). Equivalence problems in translating ibn (son) and bint (daughter) fixed expressions to Arabic and English. *International Journal of Translation and Interpretation Studies*, 3(2), 1-15. DOI: 10.32996/ijtis.2023.3.2.1. ERIC ED628181 Google Scholar
- [2] Al-Jarf, R. (2023b). Numeral-based English and Arabic formulaic expressions: Cultural, linguistic and translation issues. *British Journal of Applied Linguistics*, 3(1), 22-35. DOI: 10.32996/bjal.2023.3.1.2. Google Scholar
- [3] Al-Jarf, R. (2022a). A multiple-associations approach to teaching technical terms in English for specific purposes courses. *International Journal of English Language Studies (IJELS)*, 4(2), 56-66. DOI: 10.32996/ijels.2022.4.2.5. ERIC ED621773. Google Scholar
- [4] Al-Jarf, R. (2022b). Arabic and English dar (house) and bayt (home) expressions: Linguistic, translation and cultural issues. *Journal of Pragmatics and Discourse Analysis (JPDA), 1*(1), 1-13. ERIC ED624367. Google Scholar
- [5] Al-Jarf, R. (2022c). Challenges that undergraduate student translators' face in translating polysemes from English to Arabic and Arabic to English. International Journal of Linguistics, Literature and Translation (IJLLT), 5(7), 84-97. DOI: 10.32996/ijllt.2022.5.7.10. ERIC ED620804. Google Scholar
- [6] Al-Jarf, R. (2022d). Difficulties in learning English plural formation by EFL college students. *International Journal of Linguistics, Literature and Translation (JJLLT)*, 5(6), 111-121. Doi:10.32996/ijllt.2022.5.6.13. ERIC ED620200. Google Scholar.
- [7] Al-Jarf, R. (2022e). Issues in translating English and Arabic common names of chemical compounds by student-translators in Saudi Arabia. In Kate Isaeva (Ed.). Special Knowledge Mediation: Ontological & Metaphorical Modelling. Springer. DOI: 10.1007/978-3-030-95104-7. Google Scholar
- [8] Al-Jarf, R. (2022f). Role of Instructor qualifications, assessment and pedagogical practices in EFL students' grammar and writing proficiency. Journal of World Englishes and Educational Practices (JWEEP), 4(1), 18-33. DOI: 10.32996/jweep.2022.4.2.2. ERIC ED618315. Google Scholar
- [9] Al-Jarf, R. (2022g). Specialized dictionary mobile apps for students learning English for engineering, business and computer science. *Journal of Humanities and Education Development (JHED)*, 4(1), 1-10 <a href="https://doi.org/10.22161/jhed.4.1.1">https://doi.org/10.22161/jhed.4.1.1</a>. ERIC ED618224. <a href="https://doi.org/10.22161/jhed.4.1.1">Google Scholar</a>
- [10] Al-Jarf, R. (2022h). Undergraduate student-translators' difficulties in translating English word + preposition collocations to Arabic. *International Journal of Linguistics Studies (IJLS)*, 2(2), 60-75. DOI: 10.32996/ijls.2022.2.2.9. ERIC ED621368. Google Scholar
- [11] Al-Jarf, R. (2021). An Investigation of Google's English-Arabic translation of technical terms. Eurasian Arabic Studies, 14, 16-37. Google Scholar
- [12] Al-Jarf, R. (2020a). Arabic digital dictionaries. Eurasian Arabic Studies, 12, December, 16-42. Google Scholar
- [13] Al-Jarf, R. (2020b). Issues in interactive translation practice on Twitter. The 16th International Scientific Conference eLearning and Software for Education Bucharest, Romania, 3, 427-437. DOI: 10.12753/2066-026X-20-227. Google Scholar
- [14] Al-Jarf, R. (2020c). Issues in translating English and Arabic plurals. *The Journal of Linguistic and Intercultural Education JoLIE, 13*(1), 7-28. https://doi.org/10.29302/jolie.2020.13.1. <u>Google Scholar</u>
- [15] Al-Jarf, R. (2019a). Freshman students' difficulties with English adjective-forming suffixes. *Journal of Foreign Language Teaching and Applied Linguistics (J-FLTAL), 6*(1), 169-180. Google Scholar
- [16] Al-Jarf, R. (2019b). Translation students' difficulties with English and Arabic color-based metaphorical expressions. *Fachsprache, 41(Sp. Issue),* 101-118. https://doi.org/10.24989/fs.v41iS1.1774. ERIC ED622935. Google Scholar
- [17] Al-Jarf, R. (2018). Multiple Arabic equivalents to English medical terms: Translation issues. *International Linguistics Research, 1*(1); 102-110. https://doi.org/10.30560/ilr.v1n1p102. ERIC ED613073. Google Scholar
- [18] Al-Jarf, R. (2017a). Issues in translating Arabic om- and abu-expressions. ALATOO Academic Studies, 3, 278-282. ERIC ED613247. Google Scholar
- [19] Al-Jarf, R. (2017b). What teachers should know about online grammar tasks. In Handoyo Widodo, Alistair Wood, Deepti Gupta, Winnie Cheng's (Eds.) Asian English Language Classrooms: Where Theory and Practice Meet. <u>Taylor & Francis Group</u>. 113-130. https://doi.org/10.4324/9781315755243-8. Google Scholar
- [20] Al-Jarf, R. (2016a). Issues in translating English technical terms to Arabic by Google Translate. 3rd International Conference on Information and Communication Technologies for Education and Training (TICET 2016), pp. 17-31. Khartoum, Sudan, March 12-14. Google Scholar
- [21] Al-Jarf (2016b). *Translation of English and Arabic binomials by advanced and novice student translators*. In Larisa Ilynska and Marina Platonova (Eds) Meaning in Translation: Illusion of Precision (Pp. 281-298). Cambridge Scholars Publishing. <u>Google Scholar</u>
- [22] Al-Jarf, R. (2015). A model for enhancing EFL freshman students' vocabulary with mind-mapping software. Journal of Teaching English for Specific and Academic Purposes. 3, 3, Special Issue, 509–520. Google Scholar
- [23] Al-Jarf, R. (2014). Online Arabic-English-Arabic specialized dictionaries. In Miguel Ángel Campos and José Ramón Calvo's Investigating Lexis: Vocabulary Teaching, ESP, Lexicography and Lexical Innovations. Cambridge Scholars Publishing. Pp. 95-102. Google Scholar
- [24] Al-Jarf, R. (2013). Integrating Elluminate Webconferences in EFL Grammar Instruction. Second International Conference, Technologies of Information and Communications in Education and Training (TICET2013). 60-76. ERIC ED610560. <a href="https://doi.org/10.2139/ssrn.3842144">https://doi.org/10.2139/ssrn.3842144</a>. <a href="https://doi.org/10.2139/ssrn.3842144">Google Scholar</a>
- [25] Al-Jarf, R. (2011). Teaching spelling skills with mind-mapping software. Asian EFL Journal, 53, 4-16. Google Scholar
- [26] Al-Jarf, R. (2010a). *Interlingual pronoun errors in English-Arabic translation*. International symposium on Using Corpora in Contrastive and Translation Studies. Edge Hill University, UK. <u>Google Scholar</u>
- [27] Al-Jarf, R. (2010b). Translation students' difficulties with English neologisms. *Analele Universității "Dunărea De Jos" Din Galați Fascicula XXIV ANUL III (2)*, 431-437. Romania. <u>Google Scholar</u>
- [28] Al-Jarf, R. (2009a). Teaching grammar for professional purposes. The International Language Conference on the Importance of Learning Professional Foreign Languages for Communication Between Cultures, Celje, Slovenia. <u>Google Scholar</u>
- [29] Al-Jarf, R. (2009b). Word+particle collocation errors in English-Arabic translation. Conference titled "40 Years of Particle Research". Bern, Switzerland. February 11.-13. Google Scholar
- [30] Al-Jarf, R. (2008). Acquisition of Adjective-Forming Suffixes by EFL Freshman Students. Regional Conference on English Language Teaching and Literature (ELTL 1) (1st, Roudehen, Tehran, Iran, Feb 17, 2008). ERIC ED609956. Google Scholar
- [31] Al-Jarf, R. (2007). SVO word order errors in English-Arabic translation. *META*, *52*(2), 299–308. <u>DOI: 10.7202/016072ar</u>. ERIC ED623835. <u>Google Scholar</u>
- [32] Al-Jarf, R. (2006). *Making connections in vocabulary instruction*. 2nd ClaSic Conference proceedings. Singapore. ERIC ED497939. Google Scholar

- [33] Al-Jarf, R. (2005). The effects of online grammar instruction on low proficiency EFL college students' achievement. *The Asian EFL Journal Quartely*, 7(4), 166-190. Google Scholar
- [34] Al-Jarf, R. (2000). Grammatical agreement errors in L1/L2 translation. *International Review of Applied Linguistics, 38,* 1-15. https://doi.org/10.1515/iral.2000.38.1.1. Google Scholar
- [35] Al-Jarf, R. (1994). A contrastive analysis of English and Arabic morphology for translation students. Retrieved from
- https://www.researchgate.net/profile/Reima-Al-Jarf/publication/312193999df. Google Scholar
- [36] Al-Jarf, R. (1996). Contrastive semantics for translation students. Retrieved from <a href="https://www.researchgate.net/profile/Reima-Al-Jarf/publication/281003229">https://www.researchgate.net/profile/Reima-Al-Jarf/publication/281003229</a>. Google Scholar
- [37] Al-Jurf, R. (1994). A contrastive analysis of English and Arabic for translation students. https://www.academia.edu/14942469. Google Scholar
- [38] Al-Kharabsheh, A. (2003). The translation of different types of technico-scientific compounds from English into Arabic. Ph.D. Thesis. The University of Salford, UK.
- [39] Alsadi, H. (2016). Metaphors production and comprehension by Qatari EFL learners: A cognitive approach. *Arab World English Journal (AWEJ)*, 7(1), 408 421.
- [40] Anderson, R., Reynolds, R., Schallert, D. & Goetz, E. (1977). Frameworks for comprehending discourse. *American Educational Research Journal*, 14(4), 367-381
- [41] Charteris-Black, Jonathan (2002). Second language figurative proficiency: A comparative study of Malay and English. *Applied Linguistics*, 23, 104-133.
- [42] Dekhnich, O. & Trofimova, D. (2015). Time category in English and German language world views through metaphor translation analysis in Momo by M. Ende. *Lexicography and Communication*, 21-25.
- [43] Djabbarov, S. (2023). THE ETHNOLINGUISTIC CHARACTERISTICS OF ENGLISH IN UZBEK LANGUAGES OF THE CONCEPT TIME. *Mental Enlightenment Scientific-Methodological Journal*, 4(5), 59-64.
- [44] Duffy, S. (2014). The role of cultural artifacts in the interpretation of metaphorical expressions about time. *Metaphor and Symbol*, 29(2), 94-112. https://doi.org/10.1080/10926488.2014.889989
- [45] Erdem, M. (2010). Time metaphors in Oguz concept system. Central Asiatic Journal, 54(2), 191-206.
- [46] Eweida, S. (2007). The realization of time metaphors and the cultural implications: An analysis of the Quran and English Quranic translations. Bachelor Degree thesis, Faculty of Humanities, Department of English, Stockholm University, Sweden.
- [47] Golfam, A., Ghorbanpour, A., & Mahdipour, N. (2019). A comparative study of the conceptual metaphors of time in Persian and English. *Journal of Applied Studies in Language*, 3(1), 43-55.
- [48] Graf, E. (2011). Adolescents' use of spatial TIME metaphors: A matter of cognition or sociocommunicative practice?. *Journal of Pragmatics*, 43(3), 723-734.
- [49] Hamdi, S. (2008). Conceptual metaphors of time in English and in Arabic: A comparative cognitive study. Doctoral Dissertation, Université Laval, Canada.
- [50] Hamdi, S. (2010). Time as a moving entity in English and in Arabic: A comparative cognitive analysis. Metaphorik. de, 19(1), 7-21.
- [51] Hendricks, R., & Boroditsky, L. (2017). New space-time metaphors foster new nonlinguistic representations. *Topics in cognitive science, 9*(3), 800-818.
- [52] Indirasari, D. (2018). Time metaphors in Indonesian language: A preliminary study. *Diversity in Unity: Perspectives from Psychology and Behavioral Sciences*, 467-172.
- [53] Iwasaki, S. (2009). A cognitive grammar account of time motion 'metaphors': A view from Japanese. *Journal Cognitive Linguistics*, 20(2), 341-366. https://doi.org/10.1515/COGL.2009.017.
- [54] Lakoff, G.& Johnson, M. (1980), Metaphors we live by. University of Chicago Press: Chicago and London.
- [55] Libdeh, A. (2016). The metaphor of time as embodied in Al-'Aşr Sura-a comparative study. *Arab World English Journal (AWEJ) Special Issue on Translation*, (5).
- [56] Littlemore, J., Trautman, P., Almut, K. & Barnden, J. (2011). Difficulties in metaphor comprehension faced by international students whose first language is not English. *Applied Linguistics*, 32(4) 408–429.
- [57] Máthé, Z. (2021). What time does in language: a cross-linguistic cognitive study of source related variation in verbal time metaphors in American English, Finnish and Hungarian. *Studia Universitatis Babes-Bolyai-Philologia*, 66(2), 215-238.
- [58] Moon, R. (1998): Fixed Expressions and Idioms in English. Oxford: University Press.
- [59] Pruszczak, D., Stolarski, M., & Jankowski, K. (2018). Chronotype and time metaphors: morning-types conceive time as more friendly and less hostile. Biological Rhythm Research, 49(3), 431-441.
- [60] Sandgren, J. & Stewart, M. (2014): Problems L2 readers encounter with metaphor in discipline-specific texts. Ph.D. Thesis. University of Wollongong, Australia.
- [61] Sardaraz, K., Nusrat, A., & Ab Rashid, R. (2021). Conceptualization of time in Pashto language. FWU Journal of Social Sciences, 15(4), 92-113.
- [62] Smadi, O. & Alrishan, A. (2015): "Strategies used by Jordanian EFL university graduate students in translating idioms into Arabic". *Journal of Education and Practice* 6(6), 45-55.
- [63] Valenzuela, J., & Castillo, R. (2022). A corpus-based look at time metaphors. *Time Representations in the Perspective of Human Creativity*, 75, 15
- [64] Viimaranta, J. (2006). Talking about time in Russian and Finnish. Faculty of Arts at the University of Helsinki, Finland.
- [65] Zibin, A. (2016). The comprehension of metaphorical expressions by Jordanian EFL learners. Sage Open, 6(2), https://doi.org/10.1177/2158244016643144.