

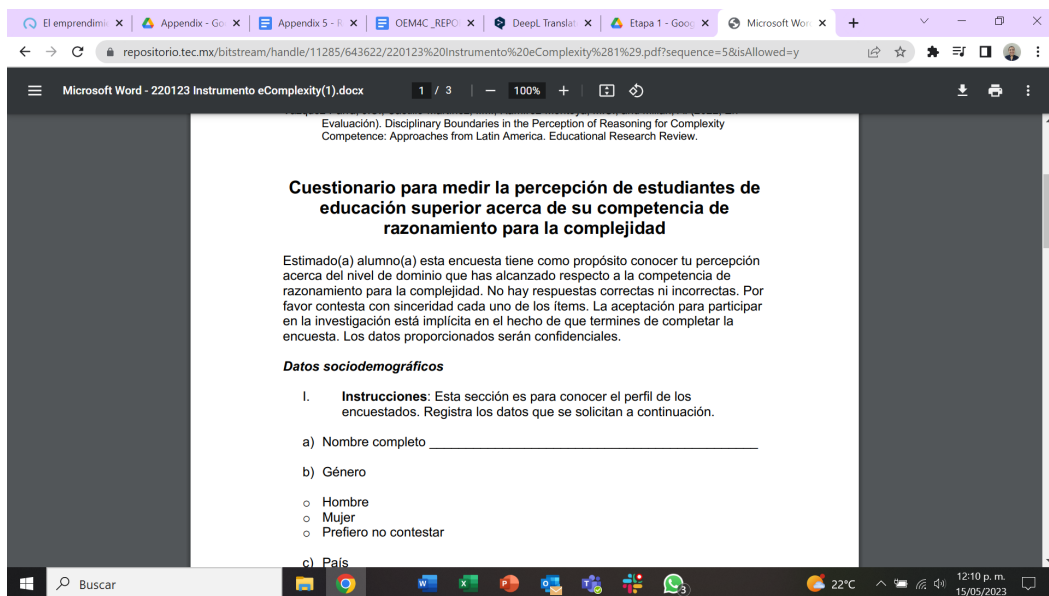
Carlos-Arroyo, M. & Alfaro-Ponce, B. (2023). Appendix 5: eComplexity Scale and results. Technical report stage 1. Project Open Educational Model for Complexity (OEM4C). Tecnológico de Monterrey. Handle: <https://hdl.handle.net/11285/650730>

Appendix number & project name - stage	Appendix 5 - OEM4C - Stage 1
Products, outcomes or milestones	Research activities: Instruments
Name	Appendix 5: eComplexity Scale and results
Responsible	Martina Carlos Arroyo
Research activities	(b) eComplexity Scale with the objective of identifying how university students perceive their levels of mastery with respect to their competence in reasoning for complexity. Four quantitative domains will be analyzed with the validated instrument: critical, systemic, scientific and innovative thinking. It will be applied to 500 university students in the 10 institutions identified for the study.

## Support evidences

### 1. Evidence 1: Instrument eComplexity

Castillo-Martínez, I. M. & Ramírez-Montoya, M. S. (2022). Instrumento eComplexity: Medición de la percepción de estudiantes de educación superior acerca de su competencia de razonamiento para la complejidad. <https://hdl.handle.net/11285/643622>



## 2. Evidencia 2: Results of eComplexity

1	Marca temporal	Nombre completo	Correo electrónico	Género	País	Disciplina de los estudios	Grado académico
2	1/24/2022 13:28:53	Toño	tonmil53@yahoo.com.mx	Hombre	México	Ciencias exactas y naturales	Posgrado
3	1/24/2022 19:25:51	prueba	sofrazmirez@tec.mx	Mujer	México	Ciencias sociales	Posgrado
4	1/26/2022 19:02:11	Catalina Roldán	roldancati@gmail.com	Mujer	Ecuador	Humanidades	Posgrado
5	1/26/2022 21:50:51	ANA CRISTINA	ao1687565@tec.mx	Mujer	MÉXICO	Humanidades	Posgrado
6	1/27/2022 17:50:44	Miguel Peña	A01688459@tec.mx	Hombre	México	Humanidades	Posgrado
7	1/28/2022 20:03:19	Dominique	dominiqueemersu@gmi	Mujer	México	Ciencias sociales	Posgrado
8	1/29/2022 22:04:40	Roberto Carlos Villagómez	duorocrack@hotmail.com	Hombre	México	Humanidades	Posgrado
9	1/30/2022 13:14:31	JARAMILLO DE LA TOR	a00170725@tec.mx	Hombre	México	Humanidades	Posgrado
10	1/30/2022 20:49:11	CÉSAR AUGUSTO ROJ	A01686073@tec.mx	Hombre	México	Humanidades	Posgrado
11	2/1/2022 16:34:27	Alfonso Delgado	a00931306@tec.mx	Hombre	México	Humanidades	Escuela de Humanidades
12	2/10/2022 12:52:35	Mónica Palomino	moni13pc@gmail.com	Mujer	España	Ciencias sociales	Escuela de Humanidades
13	2/14/2022 7:54:38	Arturo Sahagún Martínez	a01662500@tec.mx	Hombre	México	Humanidades	Escuela de Arquitectura, Pregrado (profesional, ur
14	2/14/2022 7:55:34	Simón	A01662591	Hombre	México	Ingeniería y tecnología	Escuela de Arquitectura, Pregrado (profesional, ur
15	2/14/2022 7:55:35	Ingrid Estrada Rebollo	a01661688@tec.mx	Mujer	México	Ingeniería y tecnología	Escuela de Arquitectura, Pregrado (profesional, ur
16	2/14/2022 7:55:39	Brenda Reyes	A01661723@tec.mx	Mujer	México	Ingeniería y tecnología	Escuela de Arquitectura, Pregrado (profesional, ur
17	2/14/2022 7:56:07	Leonardo Monroy	a01662155@tec.mx	Hombre	México	Ingeniería y tecnología	Escuela de Arquitectura, Pregrado (profesional, ur
18	2/14/2022 7:56:19	Erick Flores	A01656284@tec.mx	Hombre	México	Ingeniería y tecnología	Escuela de Arquitectura, Pregrado (profesional, ur

## 3. Evidence 3: Publications of results

Ramirez-Montoya, M.S.; Ceballos, H.G.; Martínez-Pérez, S.; Romero-Rodríguez, L.M. (2023). Impact of Teaching Workload on Scientific Productivity: Multidimensional Analysis in the Complexity of a Mexican Private University. *Publications* 11, 27. <https://doi.org/10.3390/publications11020027>  
<https://hdl.handle.net/11285/650446>

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(EHE) (Aquamarine), Architecture, Art and Design (EAAD) (Blue), Social Sciences and Government (ECSG) (Orange).

### 3.2. Statistical Analysis

Next, we evaluated the correlation between variables to prevent high correlations that might induce multicollinearity issues in the regression analysis. Figure 6 shows the correlation matrix of numeric variables in the dataset.

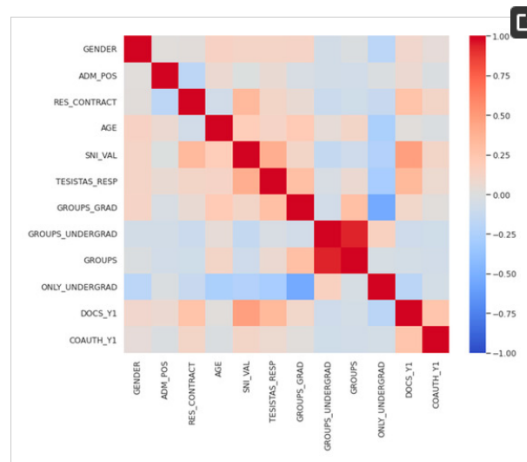


Figure 6. Correlation matrix between independent variables and the dependent variable.

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