

## 5. B.S. in Industrial Engineering with minor in Systems Engineering (“Ingeniero Industrial y de Sistemas”) - IIS - Edition 2019

### 5.1 GENERAL

TECNOLÓGICO DE MONTERREY will provide sufficient academic credits for DHIK students to pursue studies toward obtaining the Bachelor Degree at TECNOLÓGICO DE MONTERREY and transfer credits to count as part of Year 3 (three) of the DHIK Member Bachelor's degree. A guide towards the courses offered at TECNOLÓGICO DE MONTERREY and accreditation inside DHIK member is shown below:

#### Applicable for the following universities:

1. Fachhochschule Aachen
2. Fachhochschule Bielefeld
3. Technische Hochschule Bingen
4. Hochschule Bochum
5. Technische Hochschule Brandenburg
6. Hochschule Coburg
7. Fachhochschule Erfurt
8. Hochschule Esslingen
9. Hochschule Heilbronn
10. Fachhochschule Kiel
11. Hochschule Köln
12. Hochschule für Technik Wirtschaft und Gestaltung Konstanz
13. Hochschule Mannheim
14. Hochschule für Angewandte Wissenschaften München
15. Hochschule für Technik und Wirtschaft des Saarlandes
16. Fachhochschule Südwestfalen
17. Hochschule für angewandte Wissenschaften Würzburg-Schweinfurt
18. Westsächsische Hochschule Zwickau

Tecnologico de Monterrey			DHIK		
B.S. in Industrial Engineering with minor in Systems Engineering			Engineering And Management (B.Eng.)		
Code	Course or Formative Unit	Credits	Code	Course	ECTS
Possible accreditation					
IN2004B	Generation of Value with Data Analytics	4		Discrete Event Simulation / Statistical Engineering	5
IN2005B	Organizational Competitiveness Evaluation	4		Lean Manufacturing	5
IN2006B	Analysis of the Viability of Projects from a Systemic Perspective	4		Project Feasibility	5
IN2039	Visualization of Data for Decision Making	1		Data Visualization	5
IN2040	Optimization of Organizational Processes	1		Optimization Models/ Operation Research	5
IN2041	Application of Heuristics and Metaheuristics in Process Optimization	1		Decision-making Models	5
EG1005	Elective Course Ethics and Citizenship	3		Ethics / Citizenship	3..6
Second semester					
OP3091	Professional Elective I	3		Internship and/or courses + thesis	30
OP3092	Professional Elective II	3			
OP3093	Professional Elective III	3			
OP3094	Professional Elective IV	3			
OP3095	Professional Elective V	3			
OP3096	Professional Elective VI	3			
	<b>TOTAL</b>	<b>36</b>		<b>TOTAL</b>	<b>60</b>