



References to the curriculum

Internal References available on the OIPEC: Slides and Teaching materials

No	Name	Location	Language	Link
R1	Overview: Additive Manufacturing and 3D- Printing Technologies	Grenoble INP- OIPEC workshop at VISU, November 14, 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/OVERVIEW-Additive-Manufacturing-and-3D-printing-technologies.pdf
R2	Design for Additive Manufacturing: Uncover New Design Rules	Grenoble INP- OIPEC workshop at VISU, November 14, 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Design-for-Additive-Manufacturing.pdf
R3	Introduction to Technology Forecasting	Polimi- OIPEC workshop at VISU, November 14, 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Introduction-to-Technology-Forecasting.pdf
R4	Perspective on Open Innovation	LUT- LUT summer school, July 25-29 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Perspectives-on-Open-Innovation-When-Theory-Meets-Practice.pdf
R5	Inventive Product Design and Advanced TRIZ	Polimi- LUT summer school, July 25-29 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Inventive-Product-Design-and-Advanced-TRIZ.pdf
R6	Hands on Design Task Clarification	Polimi- LUT summer school, July 25-29 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Hands-on-Design-Task-Clarification.pdf
R7	Introduction to Design Methods	Polimi- LUT summer school, July 25-29 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Introduction-to-Design-Methods.pdf
R8	Hands on Problem Solving	Polimi- LUT summer school, July 25-29 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Hands-on-Problem-Solving-2.pdf
R9	Hands on Problem Solving	Polimi- LUT summer school, July 25-29 2016	English	http://www.oipece.eu/wp-content/uploads/2017/07/Hands-on-Problem-Solving.pdf
R10	Video: BID Bio-Inspired Design	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R11	Video: Innovation obstacles - Problems classification	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R12	Video: Psychological methods for creativity enhancement	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R13	Video: System Thinking - Network of Problems	Polimi - MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R14	Video: Functional Modeling	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R15	Video: Su-Field Modeling and Inventive Standards	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R16	Video: Psychological methods and Introduction to TRIZ	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R17	Video: Contradictions Modeling and Logic of ARIZ	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R18	Video: Integrated Problem-Solving Process	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R19	Video: Product and Process Value Analysis	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R20	Video: Intellectual Property Rights - Introduction to patents	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R21	Video: Patents General information	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R22	Video: Patent Breaking	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R23	Video: Patent Strategies - Statistical Analysis of Patent	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R24	Video: Types and Patterns of Innovation	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R25	Video: Introduction to Technology Forecasting Part1	Polimi- MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R26	Video: Introduction to Technology Forecasting Part2	Polimi -MTSI lecture at Polimi, Sept-Dec 2017	English	Available on BEEP upon registration
R27	The difficulties involved in developing business models open to innovation communities: the case of a crowdsourcing platform	Journal paper by Valérie Chanal and Marie-Laurence Caron-Fasan	English	Available on BEEP upon registration
R28	Additive manufacturing introduction	GINP – teaching material	French	Available on BEEP upon registration
R29	Modes of technological operations	GINP – teaching material	French	Available on BEEP upon registration
R30	Basic mathematics for 3D manufacturing slicing processes	GINP – teaching material	French	Available on BEEP upon registration

R31	computer models 1	GINP – teaching material	French	Available on BEEP upon registration
R32	computer models 2	GINP – teaching material	French	Available on BEEP upon registration
R33	French AM patent July 1984	GINP – teaching material	French	Available on BEEP upon registration
R34	The social integration of information and communication technologies by Philippe Mallein et Yves Toussaint	GINP – teaching material	French	Available on BEEP upon registration
R35	Methods of simulation	GINP – teaching material	French	Available on BEEP upon registration
R36	Introduction to Invention	LUT lecture	English	Available on BEEP upon registration
R37	Function modeling	LUT lecture	English	Available on BEEP upon registration
R38	Ideal Final Result	LUT lecture	English	Available on BEEP upon registration
R39	Trimming	LUT lecture	English	Available on BEEP upon registration
R40	TESE	LUT lecture	English	Available on BEEP upon registration
R41	Contradiction analysis	LUT lecture	English	Available on BEEP upon registration
R42	Patent Statistics Examples	LUT lecture	English	Available on BEEP upon registration
R43	Patent searching and miscellaneous	LUT lecture	English	Available on BEEP upon registration
R44	Text mining	LUT lecture	English	Available on BEEP upon registration
R45	Excel based Trend extrapolation tool	LUT lecture	English	Available on BEEP upon registration
R46	patent statistics lecture of Kapoor Rahul (MSU)	LUT lecture	English	Available on BEEP upon registration
R47	solar power patents 1991-2010_analyses	LUT lecture	English	Available on BEEP upon registration
R48	Text mining 2	LUT lecture	English	Available on BEEP upon registration
R49	Introduction to the sociology of user experience - CAUTIC Method	GINP – seminar material	English	Available on BEEP upon registration

External References (available in the curriculum submitted by individual universities): Books, articles etc.

Reference Number	Name	Link	Accessibility
Rex1	eLIBRARY.RU - Russian information-analytical portal in science, technology, medicine and education	http://elibrary.ru/defaultx.asp	
Rex2	Moodle — course management system official website	https://moodle.org/?lang=ru	
Rex3	Autonomous nonprofit organization "E-education for nanotechnology industry"	http://www.edunano.ru	
Rex4	Single window of access to educational resources	http://window.edu.ru/	
Rex5	Interdisciplinary learning	http://www.nano-obr.ru/	
Rex6	educational courses of the new generation (Massive Open Online Course) prepared by Russia's leading universities for online education	https://www.lektorium.tv/	
Rex7	inter-University platform of open e-learning	http://universarium.org/	
Rex8	«OpenEdu», open education courses of leading universities of Russia	https://openedu.ru/	
Rex9	Additive Manufacturing Technologies 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing, by Ian Gibson, David Rosen, Brent Stucker.		Purchase
Rex10	Digital_Manufacturing_For_Dummies		Purchase
Rex11	3D printing technologies_Matteo Lepidi		Limited access
Rex12	Decisional Model for Additive Manufacturing Technologie, Matteo Lepidi Matr. 786635		Limited access
Rex13	FdM RepRap, Marie-Laure PERENON, D'après les diapos de Philippe MARIN		
Rex14	For 3D FDM "RepRap print Doctor"	https://www.logre.eu/wiki/RepRap_printDoctor	
Rex15	For 3D FDM "SIMPLIFY3D"	https://www.simplify3d.com/support/print-quality-troubleshooting/	Open access
Rex16	For 3D FDM "3DVERKSTAN"	http://support.3dverkstan.se/article/23-a-visual-ultimaker-troubleshooting-guide	Open access
Rex17	Tasks for printing by 3D FDM "Thingiverse"	https://www.thingiverse.com/thing:1169 https://www.thingiverse.com/thing:2308925 https://www.thingiverse.com/thing:591852 https://www.thingiverse.com/thing:113160 https://www.thingiverse.com/thing:858835 https://www.thingiverse.com/thing:2006297 https://www.thingiverse.com/thing:28987 https://www.thingiverse.com/thing:546688 https://www.thingiverse.com/thing:33902	Open access
Rex18	Laser based additive manufacturing in industry and academia, Michael Schmidt etc, CIRP Annals - Manufacturing Technology	https://www.sciencedirect.com/science/article/pii/S0007850617301506	Open access
Rex19	Additive manufacturing innovations Advances and Applications, Srivatsan T.S., 2016		Purchase
Rex20	T. Modis, Natural Laws in the Service of the Decision Maker: How to Use Science-Based Methodologies to See More Clearly further into the Future. Growth Dynamics, 2013.		Purchase
Rex21	Martino, J.P., 1993. Technological Forecasting for Decision Making 3 edition., Mcgraw-Hill.	http://documents.irevues.inist.fr/handle/2042/30192	Open access
Rex22	Makridakis, S., S.C. Wheelwright, and R.J. Hyndman, 1998. Forecasting methods and applications. 3 ed. John Wiles&Sons, Inc. 3.		Purchase
Rex23	Grübler, A., 2003. Technology and Global Change, Cambridge: International Institute of Applied System Analysis.	http://www.newbooks-services.de/MediaFiles/Texts/3/9780521543323_Intro_001.pdf	Open access
Rex24	For Researching Future methodology:	http://www.seecore.org/id1.htm	Open access

	Kucharavy, D., 2008. Technological forecasting. (prediction of technology change). 4 days seminar. June 26-29, Vinci, Italy.	http://www.seecore.org/id2.htm	
Rex25	Meyer, P.S., Yung, J.W. and Ausubel, J.H. (1999) A Primer on Logistic Growth and Substitution: The Mathematics of the Loglet Lab Software. Technological Forecasting and Social Change, 61(3), 247-271.	https://phe.rockefeller.edu/LogletLab/logletlab.pdf	Open access
Rex26	IIASA – Logistic Substitution Model II	http://webarchive.iiasa.ac.at/Research/TNT/WEB/Software/LSM2/lsm2-index.html?sb=17	Open access
Rex27	FORMAT Handbook	http://handbook.format-project.eu/?page_id=1098	Open access
Rex28	OECD Patent Statistics Manual		Purchase
Rex29	G. Cascini, TRIZ-based Anticipatory Design of Future Products and Processes, Journal of Integrated Design and Process Science 16 (3), 2012, 29-63	https://content.iospress.com/download/journal-of-integrated-design-and-process-science/jid16-3-03?id=journal-of-integrated-design-and-process-science/jid16-3-03	Open access
Rex30	Christopher Nikulin, Serena Graziosi, Gaetano Cascini and Raul Stegmaier Integrated Model for Technology Assessment and Expected Evolution: A Case Study in the Chilean Mining Industry, Journal of Integrated Design and Process Science 17 (4), 2013, 53-80	http://www.oecd.org/sti/inno/oecdpatentstatisticsmanual.htm	Open access
Rex31	Fundamentals of Classical TRIZ		Limited Access
Rex32	Laws of Engineering System Evolution		Limited Access
Rex33	TRIZ opens the golden key of innovation, Science Press, 2015, first edition.		Purchase
Rex34	The OI-Net book	https://www.dropbox.com/s/zzvod4mp9lip194/OInet_book.pdf?dl=0	Limited access
Rex35	Frank Piller and Rick Wielens): Linked Innovation: 5 Keys to Success in Open Innovation Challenge Management:	http://www.innovationmanagement.se/2013/07/31/linked-innovation-5-keys-to-success-in-open-innovation-challenge-management/	Open access
Rex36	INSPIRE Project	https://www.dropbox.com/s/m3btvibfzpu13t/Plato%20-%20anonymous%20%281%29.pdf?dl=0	Limited access
Rex37	<ul style="list-style-type: none"> The Lego case, Slides by Kerestegian, Lego senior manager, OI Shih, Willy C., and Sen Chai. «The LEGO Group: Publish or Protect? » Harvard Business School Case 613-079, February 2013. (Revised March 2015.) Kohler, T. (2015). Crowdsourcing-Based Business Models. California Management Review, 57(4), 63-84. Chien, C. V. (2015). Opening the Patent System: Diffusionary Levers in Patent Law. S. Cal. L. Rev., 89, 793. 	https://www.dropbox.com/s/0vzo2s90btz0pi5/Open-Innovation-at-LEGO1.pdf?dl=0 http://www.thelegocasestudy.com/ http://www.thelegocasestudy.com/uploads/1/9/9/5/19956653/lego_case_study_2014.pdf http://www.15inno.com/2014/11/15/3successfulocases/	Limited access Open access Open access Open access
Rex38	The case of NASA	http://www.forskningsdatabasen.dk/en/catalog/2352383557 https://www.dropbox.com/s/7ns0mcilzdtbfy9/Vasiliki%20Baka_Using%20an%20Open%20Collaborative%20Platform%20to%20facilitate%20interactions%20between%20academia%20and%20industry.pdf?dl=0	Open access Limited access
Rex39	The case of Amazon:	https://www.dropbox.com/s/qd3v3nvl2rm98ps/Crowdsourcing%20and%20Open%20Innovation-%20A%20Study%20of%20Amazon%20Mechanical%20Turk%20and%20Apple%20iOS.pdf?dl=0	Limited access
Rex40	The case of Escom:	https://www.dropbox.com/s/mnxds6ergm4vpat/Eskom%20Case%20Study%20Aug%202012_Open%20Innovation%20in%20South%20Africa.pdf?dl=0	Limited access
Rex41	The case of Dell:	https://www.dropbox.com/s/asyljzuqqplgd6y/Bayus%202013%20Crowdsourcing%20Dell.pdf?dl=0	Limited access
Rex42	<ul style="list-style-type: none"> The Case of NimbleBee Still et al. 2015 Accelerating innovation through crowdsourcing: a case combining knowledge Still & Soens 2016: Evolution of a crowdsourcing system: Case Nimblebee 	https://www.dropbox.com/s/s0view35mjlst0/Kaisa_Wim_Wim_crowdsourcing.pdf?dl=0 https://www.dropbox.com/s/i6lrpwtbf8v9wie/Still%20-%26%20Soens%20ISPIIM%20Boston%202016.pdf?dl=0 https://www.dropbox.com/s/p73rf38z04jtodq/UIC%20Online%20Platforms%20slide%20by%20AlbatsE.pdf?dl=0 https://www.dropbox.com/s/l8mv2smtmsral6l/ISPIIM%20UIC%20Online%20platforms_Final.pdf?dl=0	Limited access Limited access Open access Limited access
Rex43	Short Review of Altshuller's Algorithm of Inventive Problem Solving (ARIZ) Illustrated by the Analysis of a Real Problem		Limited Access
Rex44	Systematic Innovation- An introduction to TRIZ. St. Lucie PRESS		Purchase
Rex45	Victor Fey. Effective Innovation. ASME PRESS. 2003		Purchase
Rex46	Isak Bukhman. TRIZ- the innovative technology. China science and technology press, 2016		Purchase
Rex47	Technology forecasting – state of the art update	http://www.format-project.eu/deliverables/public-reports-and-white-papers/deliverable-2.3	Open access
Rex48	Technology foresight: types and methods	https://www.dropbox.com/s/uaeim74slks87fr/Technology%20foresight%20-%20types%20and%20methods.pdf?dl=0	Limited access
Rex49	Technology futures analysis: Toward integration of the field and new methods	https://www.sciencedirect.com/science/article/pii/S0040162503001380	Limited access
Rex50	Creativity and Innovation methods for Design	https://www.dropbox.com/s/prhfqif93fgo9o/Dekoninck%20-%20Creativity%20and%20Innovation%20Methods%20for%20Design.pdf?dl=0	Limited access
Rex51	Design Process Improvement	https://www.dropbox.com/s/gh2aubdex42h6x9/8%20-%20Wynn_Clarkson_models_of_designing.pdf?dl=0	Limited access
Rex52	Delft Design Guide	https://ocw.tudelft.nl/courses/delft-design-guide/?view=readings	Open access
Rex53	Design Thinking: Understanding How Designers Think and Work- Nigel Cross		Purchase
Rex54	Engineering design methods: strategies for product design - Nigel Cross		Purchase
Rex55	Engineering Design Representation and Reasoning- David C. Brown, Clive L. Dym,		Purchase
Rex56	Product Design and Development		Purchase

	A Resource for Students and Professionals in the Field of Product Design and Development:Karl T. Ulrich, Steven D. Eppinger		
Rex57	Su-field analysis and standard solutions		Limited access
Rex58	Techniques to Resolve Contradictions / Resources / Effects		Limited access
Rex59	Example 1: Tasks for Tetris materials		Limited access
Rex60	Example 2: Problem: an umbrella		Limited access
Rex61	Example 3: Innovative connecting road for high performance engines		Limited access
Rex62	Example 4: Ink Leakage		Limited access
Rex63	Example 5: Power Line		Limited access
Rex64	Participatory design handbook a collaborative approach to address community based challenges: Kate Ferguson And Seona Candy	http://kateferguson.org/documents/Participatory-Design-Handbook.pdf	Open access
Rex65	Managing Open Innovation in SMEs: Wim Vanhaverbeke		Purchase
Rex66	How to search for open innovation partners? : Guertler, Matthias R.; von Saucken, Constantin; Schneider, Maria; Lindemann, Udo	https://mediatum.ub.tum.de/doc/1277435/1277435.pdf	Open access
Rex67	How to identify suitable collaboration strategies for open innovation?: Guertler, M. R.; Becerril, L.; Lindemann, U.	https://www.designsociety.org/publication/38912/HOW+TO+IDENTIFY+SUITABLE+COLLABORATION+STRATEGIES+FOR+OPEN+INNOVATION%3F	Limited access
Rex68	Platoscience case	http://platoscience.com/science/	Open access
Rex69	Play sign case	http://www.playsign.net/	Open access
Rex70	Source: Open Innovation Course Lectures by Antero Kutvonen, LUT, 2018		Limited access
Rex71	Innovation and Entrepreneurship: John Bessant, Joe Tidd		Purchase
Rex72	Open innovation in SMEs: Joachim Hafkesbrink, Yvonne Kirkels		Open access
Rex73	The relationships between innovation and human and psychological capital in organizations: A review: Riccardo Sartori et al	https://www.researchgate.net/publication/259829485_The_relationships_between_innovation_and_human_and_psychological_capital_in_organizations_A_review	Open access
Rex74	The Challenges of Collaborative Knowledge Creation in Open Innovation Teams: Chatenier et al		Limited access
Rex75	Identification of competencies for professionals in open innovation teams: Chatenier et al		Limited access
Rex76	Ambidextrous Organizational and Individual Competencies in Open Innovation: The Dawn of a new Research Agenda: Hafkesbrink and Schroll	https://pdfs.semanticscholar.org/0fc2/a3441b0a81ec7d14535c1c1fd8b7d187aa7c.pdf	Open access
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Rex82	Innover par les Usages, Pizelle P. Verchère C., Aubouy M., Hoffmann J., Editions d'Innovations , 2014		Purchase
Rex83	Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers: Alexander Osterwalder, Yves Pigneur, Jul 2010, ISBN: 978-0-470-87641-1		Purchase
Rex84	La méthode Value Proposition Design, Alex Osterwalder, Yves Pigneur, Greg Bernarda, Alan Smith, 2017, ISBN : 978-2-7440-6689-4		Purchase
Rex85	Management de l'innovation, Séverine Le Loarne et Sylvie Blanco, 2012, ISBN-13: 978-2744076312		Purchase
Rex86	Digital Manufacturing for Dummies, by Brian Underdahl, 2015, ISBN-13: 978-1119091875		Purchase
Rex87	Fabrication assistée par ordinateur, by Alain Bernard, 2003, ISBN-13: 978-2746206182		Purchase
Rex88	Handbook of sustainability in additive manufacturing, Mathu and Savalani, 2016, ISBN-13: 978-9811006043		Purchase
Rex89	Additive manufacturing technologies: 3D Printing, rapid prototyping and direct digital manufacturing, Gibson, Rosen and Stucker, 2014, ISBN-13: 978-1493921126 (chapter 1)		Purchase
Rex90	Additive manufacturing technologies: 3D Printing, rapid prototyping and direct digital manufacturing, Gibson, Rosen and Stucker, 2014, ISBN-13: 978-1493921126 (chapter 2)		Purchase
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Rex94	Fabrication additive du prototypage rapide a l'impression 3D, Barlier et Bernard, 2015, ISBN-13: 978-2100711390 (chapter 1)		Purchase
Rex95	Fabrication additive du prototypage rapide a l'impression 3D, Barlier et Bernard, 2015, ISBN-13: 978-2100711390 (chapter 3)		Purchase
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Rex97	Fabrication additive du prototypage rapide a l'impression 3D, Barlier et Bernard, 2015, ISBN-13: 978-2100711390 (chapter 6)		Purchase
Rex98	Fabrication additive du prototypage rapide a l'impression 3D, Barlier et Bernard, 2015, ISBN-13: 978-2100711390 (chapter 7)		Purchase
Rex99	Fabrication additive du prototypage rapide a l'impression 3D, Barlier et Bernard, 2015, ISBN-13: 978-2100711390 (chapter 8)		Purchase

Rex100	Fabrication additive du prototypage rapide a l'impression 3D, Barlier et Bernard, 2015, ISBN-13: 978-2100711390 (chapter 13)		Purchase
Rex101	D_Printer Rapid prototyping Benchmark by Todd Grimm 2003		Purchase
Rex102	Kees Dorst (2011) The core of 'design thinking' and its Application, Design Studies Vol 32 No. 6 November 2011	https://www.mindmeister.com/generic_files/get_file/6342018?filetype=attachment_file	Open access
Rex103	Christian Grönroos, Value Co-creation in Service Logic: A Critical Analysis, October 2011 Marketing Theory 11(3):279-301	https://www.researchgate.net/publication/215915808_Value_Co-creation_in_Service_Logic_A_Critical_Analysis	Open access
Rex104	Sangiorgi, D. (2011). Transformative services and transformation design. International Journal of Design, 5(2), 29-40.	http://www.servdes.org/pdf/sangiorgi.pdf	Open access
Rex105	Sangiorgi, D. and Prendiville, A. (2017). Designing for Service. Key issues and New Directions, Bloomsbury Publishing.		Purchase
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Rex107	Larry Steven Londre: Several Concepts, Terms and Useful Definitions Helping to Explain and Understand Marketing and Related Activities, including Marketing, the Marketing Concept, Marketing Mix (4P's), and the Nine P's (9P's)	https://www.business.com/images/content/58a/da1862f87b1207f721665/0-0/	Open access
Rex108	Cantamessa, Marco, Montagna, Francesca Management of Innovation and Product Development Integrating Business and Technological Perspectives Springer		Purchase
Rex109	Paradoxical User Acceptance of Ambient Intelligent Systems - Sociology of User Experience Approach by Fabrice Forest, Philippe Mallein and Leena Arhippainen	Available on BEEP upon registration	Open access
Rex110	Cautic Criteria- word document	Available on BEEP upon registration	Limited access
Rex111	CAUTIC tutorial for the interpretation of the usage criteria	Available on BEEP upon registration	Limited access
Rex112	Integrated Scenario-based Design Methodology for Collaborative Technology Innovation	https://halshs.archives-ouvertes.fr/halshs-00417935/document	Open access
Rex113	Introduction to TRIZ course. TRIZ channel	https://youtu.be/rTjqZmEblF4	Open access
Rex114	Function modelling. TRIZ channel	https://youtu.be/K3ShgKAb2Vc	Open access
Rex115	Contradictions. TRIZ channel	https://youtu.be/OtHqqQa8Doo	Open access
Rex116	Trimming. TRIZ channel	https://youtu.be/eN09CzZkZfw	Open access
Rex117	IFR. TRIZ channel	https://youtu.be/Zqx3EIPi-qk	Open access
Rex118	TESE. TRIZ channel	https://youtu.be/brhtj718VIE	Open access
Rex119	What is the difference between optimization and invention? TRIZ channel	https://youtu.be/RhZvNbin-KQ	Open access
Rex120	Introduction to patents. TRIZ channel	https://youtu.be/OmUFBMGI6nQ	Open access
Rex121	Case study on FM, Trimming, IFR	https://youtu.be/P8DmWUPzZn4	

