IEEE eLearning Case Study: English for Technical Professionals

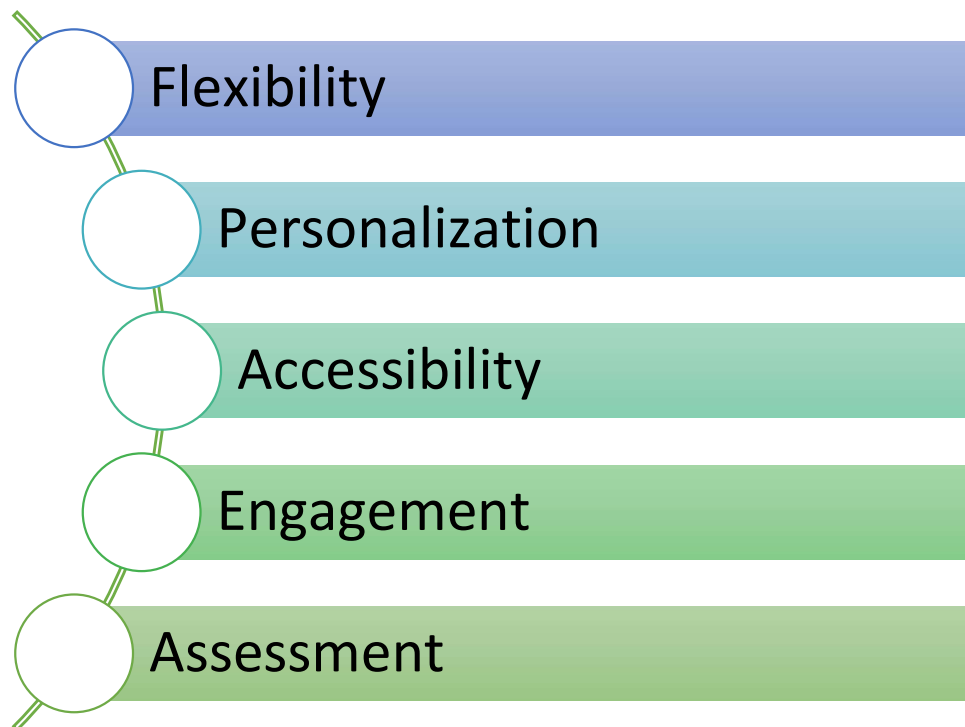*Rafael Kasprowski (rkasprowski@ebsco.com)*

Key Account Manager and Product Specialist, IEEE – Spain & Portugal

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eLearning Can Support Traditional Academic Models

- Flexibility
- Personalization
- Accessibility
- Engagement
- Assessment

![IEEE ENGLISH for Technical Professionals™]

- 21 hours of **online instruction**
- Each lesson includes modules on workplace **reading**, **writing**, **listening**, and **speaking** skills
- Short **assessments** and **exercises**, with **final test** at the end of each lesson
- **Speech-to-text** feature provides **real-time feedback** during speaking practice
- Learners have the **flexibility to take** modules & lessons **on their own, in the order they prefer**
- Learn more and watch use case video at https://ieee.org/etp

Provides non-native English speakers with a working knowledge of English techniques and vocabulary that are essential for working in today's technical workplace.

Use Case: **International Institute of Information Technology (IIIT), Naya Raipur**

Students in India face technical communication challenges

▸ 52% of the students in India are not fluent in words that are used with regular frequency at the workplace.*

▸ 25% of engineers in India don't possess the technical English skills required to understand the engineering curriculum despite being in the best institutions. Research scholars struggle with writing high-quality technical thesis or research papers.*

▸ IIIT Raipur partnered with IEEE to solve the technical communication challenges for students, staff and research scholars over the course of one semester by trialing *IEEE English Technical Professionals.*

*Hindustan Times

IIIT Naya Raipur Student Feedback

91% of the respondents indicated that the course was beneficial for them

88.5% of the respondents indicated they were satisfied with the course

85% of the respondents indicated the course was worth including in the curriculum

"Although having a basic understanding, students need to learn about technical writing and speaking, which helps them in their professional careers in industry and as well as in academics. This course helped students build their future in a better way."

End Result: IIIT Naya Raipur purchased and incorporated the *IEEE English for Technical Professionals* course in their English, Research and PhD Research Methodology Courses

Use eLearning in the University Curriculum

Flipped Classrooms	**Assignments**	**Tutoring and supplemental instruction**	**Online labs**
Group work	**Advising**	**Research**	**Projects** *Support University Continuing Education Programs, Workforce Retraining, Alumni Services, Career Services*

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Three Ways to Access eLearning

- IEEE Learning Network
- IEEE *Xplore*
- SCORM files (upcharge)

	The IEEE Learning Network (ILN) EXPERIENCE	**The IEEE Xplore** EXPERIENCE	**Customer's Learning Management System (LMS)** EXPERIENCE
	IEEE LearningNetwork	IEEE Xplore® Digital Library	S C O R M Sharable Content Object Reference Model
Courses are discovered via:	ILN *(primary)* and IEEE *Xplore*	IEEE *Xplore*	Customer's own LMS
Courses are accessed at:	iln.ieee.org	ieeexplore.ieee.org/ courses/home	Customer's own LMS
Course experience is:	Enhanced *(Includes bookmarking and transcript features)*	Standard	Varied *(Depends on customer's LMS platform)*
Authentication methods accepted:	ALL IEEE *Xplore* methods *except* EZproxy	ALL IEEE *Xplore* methods	Not applicable
Analytics are:	Enhanced *(Includes course completion and time spent in course)*	Standard *(course starts only)*	Varied *(Depends on Customer's LMS platform)*
Certificates:	Digital certificate with Continuing Education Units (CEU) and Professional Development Hours (PDH) instantly	Digital certificate of participation within 1-2 weeks	Not included

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