



**1<sup>st</sup> ONLINE TEACHING**  
**ENHANCEMENT AND LEARNING**  
**INNOVATION CARNIVAL (eTeLIC)**  
**BOOK SERIES**

**SYNCHRONOUS@REAL-TIME**  
**ONLINE INTERACTION**





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# **SYNCHRONOUS@REAL-TIME**

## **ONLINE INTERACTION**

Editors:  
TAN TSE GUAN  
FAIRULADILAN HAMADUN  
SURIA BABA

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## LIST OF ABBREVIATIONS

ADDIE	Analysis; Design; Development; Implementation; and Evaluation
AR	Augmented Reality
ASSURE	Analyze Learners; State Objectives; Select Methods, Media and Materials; Utilize Methods, Media and Materials; Require Learner Participation; and Evaluate and Revise Bipolar Junction Transistor
BJT	Enhancement Metal Oxide Semiconductor Field Effect Transistor
E-MOSFET	Centre for Academic Excellence and Development
CAED	Centre for Applied Learning and Multimedia
CALM	Centre of Modern Language collaboration with Centre of Instructional Resources & e-Learning
CIReL	Course Learning Outcomes
CLOs	Communicative Language Teaching
CLT	Complex Problem Solving
CPS	Critical Thinking
CT	Engineering Accreditation Council
EAC	e-Learning Enrichment and Advancement Platform
eLEAP	English for Specific Purposes
ESP	Face-to-Face
F2F	Integrated Design Project
IDP	Institutes of Higher Learning
IHLs	Intended Learning Outcomes
ILOs	Fourth Industrial Revolution
IR 4.0	International University Carnival on e-Learning
IUCEL	Kemp Model; and The Gerlach and Ely Model
KEMGERLY	Learning Management System
LMS	Movement Restriction Order
MCO	

MOOC	Massive Open Online Course
MQF	Malaysian Qualifications Framework
NGOs	Non-Government Organizations
PdPc	Learning and Coaching
PoPBL	Project Problem-Based Learning
ME	Read & Write
Q&A	Question and Answer
SBL	Service/Community Based Learning
SULAM	Service Learning Malaysia University For Society
TeLIC	Teaching Enhancement & Learning Innovation Carnival
UMK	Universiti Malaysia Kelantan
UMP	Universiti Malaysia Pahang
UNIMAS	Universiti Malaysia Sarawak
UTeM	Universiti Teknikal Malaysia Melaka
VE	Vaginal Examination
WHO	World Health Organization

## PREFACE

This book is a serial collection of teaching and learning (TnL) innovation from the competition of Teaching Enhancement & Learning Innovation Carnival 2020 (eTeLIC'20). It is the first-ever virtual carnival organised by the Centre for Academic Excellence and Development (CAED), Deputy Vice-Chancellor (Academic & International) Office, Universiti Malaysia Kelantan (UMK) on 21 September 2020 through an online platform, Google Meet. 114 entries from higher educational institutions and schools all over Malaysia had participated in the carnival. The carnival fits with the current situation that encourages remote teaching due to the COVID-19 crisis with the theme of *New Norm: Cultivating Online Learning*. Educators are massively affected and they critically need to learn, unlearn, and relearn to remain sustained and relevant in the inevitable paradigm shift to online learning. This book has 16 innovations that focuses on synchronous Teaching and Learning (TnL) approaches that a group of educator and students are engaging live at the same time either face-to-face or digital interactions. The contributors of the book share their current TnL innovations, ideas, as well as the best practices that are critically needed to be adopted and adapted especially in the midst of the COVID-19 pandemic. The uniqueness of each approach is that integrating synchronous video conference tools such as Microsoft Teams, Google Meet, Zoom Meetings, Cisco Webex and others to create real-time shared environments with interactive collaboration technologies. Furthermore, some educators are exploring and use various low-bandwidth social media or live mobile messaging applications such as WhatsApp and WeChat to engage their students synchronously and effectively. This book perhaps can be a guidebook not limited to only lecturers but also to other educators such as schools, matriculations, polytechnics, and other institutions.

Editors

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