



Course Outline

Course Code : MKT4761K

Course Title : SIM: Marketing Technology **Semester** : Semester 1, AY 2023/2024

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Overview

Rapidly evolving technologies, like ChatGPT, are a double-edged sword for marketers. While they offer unprecedented access to MarTech tools and solutions, they also reshape consumer behaviour and experiences. Companies are increasingly leveraging MarTech, such as chatbots, AR/VR, and the metaverse, to develop high-tech touchpoints that deliver new customer value.

This course, designed as a marketer's guide to MarTech, presents through experiential learning on the latest MarTech tools and solutions augmenting customer journeys. Through hands-on workshops and real-world case studies, you will learn how to assess and develop effective MarTech strategies for customers of tomorrow.

Course Objectives

At the end of this course, students should be able to:

- 1. Analyse the impact of rapidly evolving technologies on consumer behaviour and customer experiences.
- 2. Identify the different MarTech tools and solutions, and explain the technologies powering them.
- 3. Evaluate the managerial implications of MarTech deployment along the customer journey.
- 4. Develop innovative MarTech strategies that can effectively deliver value to customers.

Note: This course aims to help you gain the knowledge and confidence to effectively communicate and collaborate with technical specialists, such as software developers and data scientists, on MarTech projects. You will experience and experiment with various no-code/low-code MarTech tools to appreciate the underlying technology and evaluate the managerial implications for marketing.

General Guide & Reading

This course adopts selected frameworks from the recommended textbook. However, **you are not required to purchase it for this course**. The recommended textbook is available for loan at both NUS and NLB libraries. Suggested readings and references will be provided to enhance your understanding of the topics covered.

Recommended Textbook

• Kotler, P., Kartajaya, H., & Setiawan, I. (2021). Marketing 5.0: Technology for Humanity.

<u>Assessment</u>

Assessment Components	Weightage
Online Quiz (OQ1: 5%. OQ2: 5%)	10%
Class Participation	20%
Discussion Boards (DB1: 15%, DB2: 15%)	30%
Group Project	40%

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Assessment Outline

- Online Quiz: Each online quiz will include a set of MCQs. You can complete it on your own time before the deadline. We have a total of 2 online quizzes.
- **Class Participation:** The sectionals are designed to help you experience and reflect through the case discussions and hands-on workshops. You can contribute to the class through active participation in the various in-class learning activities.
- **Discussion Board:** The discussion boards serve as a post-class online forum to internalise your inclass learning and share your explorations on real-world use cases with your peers. You will post and comment on the discussion boards. We will have a total of 2 discussion boards.
- **Group Project:** You will work with your group to develop a MarTech strategy aimed at enhancing the customer experience for a business through the use of high-tech touchpoints along the customer journey. You can create your MarTech solution for a real or fictitious company. You will present your MarTech strategy, solution and prototype at the group project presentation.

Study Group

You can form your own study group consisting of up to 5 members. You will collaborate with your group on both the in-class learning activities and group project.

Academic Honesty & Plagiarism

Academic integrity and honesty is essential for the pursuit and acquisition of knowledge. The University and School expect every student to uphold academic integrity & honesty at all times. Academic dishonesty is any misrepresentation with the intent to deceive, or failure to acknowledge the source, or falsification of information, or inaccuracy of statements, or cheating at examinations/tests, or inappropriate use of resources.

Plagiarism is 'the practice of taking someone else's work or ideas and passing them off as one's own' (The New Oxford Dictionary of English). The University and School will not condone plagiarism. Students should adopt this rule - You have the obligation to make clear to the assessor which is your own work, and which is the work of others. Otherwise, your assessor is entitled to assume that everything being presented for assessment is being presented as entirely your own work. This is a minimum standard. In case of any doubts, you should consult your instructor.

Additional guidance is available at:

- Administrative Policies
- http://www.nus.edu.sg/registrar/administrative-policies-procedures/acceptance-record#NUSCodeofStudentConduct
- http://nus.edu.sg/osa/resources/code-of-student-conduct

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Schedule and Outline

Week	Topic	Activity / To-Do
1	MarTech for Customers of Tomorrow	Activity
	 Marketing Technology and Kotler's 5As Customer Path 	Ice-Breaker
	High-Tech Touchpoints and Customer Experience	Course Overview
	Topic Questions	Group Discussion
	 How will technology shape the customers of tomorrow? 	
	How can brands use MarTech to create new customer	
	experiences?	
	Reading	
	Tordjman, K. L. (2023, March 20). High-Tech Touchpoints Are	
	Changing Customer Experience. Harvard Business Review.	
2	Aware: Attract Customers with Al Machine Learning	Activity
	Introduction to AI and Machine Learning	Group Discussion
	Machine Learning and Customer Experience	Case Discussion
	Topic Questions	
	 What is the role of machine learning in marketing? 	Assessment
	How can brands leverage machine learning for customer	Discussion Board 1
	experience?	(Due: End of Week 3)
	Casal Dispary and Machina Lagrains in the Streeming Age	
	Case: Disney+ and Machine Learning in the Streaming Age	
	McTigue K. and Anderson T. (2023, January 27) Disney+ and Machine Learning in the Streaming Age. Northwestern Kellegg.	
	Machine Learning in the Streaming Age. Northwestern Kellogg School of Management.	
	Reading	
	Siegel E. (2023, March 24) How Machine Learning Can Improve	
	Customer Experience. Harvard Business Review.	
3	Aware: Attract Customers with Al Machine Learning	Activity
3	Automated Machine Learning Models	Hands-on Workshop
	Generative Al for Content Creation	Traines on Workshop
	Centrality of a fine of content of callon	
	Workshop	
	Building and deploying machine learning models	
	Exploring generative AI tools for content creation	
4	Appeal: Build Customer Relations with CRM Automation	Activity
	Introduction to Robotic Process Automation (RPA)	Group Discussion
	Customer Relationship Management (CRM) Automation	Case Discussion
	Topic Questions	
	 What is the role of automation in marketing? 	Assessment
	How can brands build customer relations with CRM automation?	Discussion Board 2
		(Due: End of Week 5)
	Case: HubSpot and Motion AI: Chatbot-Enabled CRM	
	 Avery J. and Steenburgh T. (2018, February 12) HubSpot and 	
	Motion AI: Chatbot-Enabled CRM. Harvard Business School.	
	Reading	
	RPA For Marketers: How Marketers are Getting More Done with	
	Software Robots. UiPath.	
	What is CRM Automation? Automation Anywhere.	

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	Appeal: Build Customer Relations with CRM Automation	Activity
	CRM Software System and Components	Hands-on Workshop
	Automated CRM Email Marketing Campaign	
	Workshop	
	Exploring CRM for customer relationship building	
	Building an automated email marketing campaign	
6	Ask: Create Customer Engagements with Chatbots	Activity
	 Introduction to Chatbot and Large Language Model 	Group Discussion
	Engaging Customers with AI Chatbot and Avatar	Hands-on Workshop
	Workshop	Assessment
	Interacting with an AI chatbot avatar	Online Quiz 1
	Building an AI chatbot avatar	(Due: End of Week 6)
	Recess Week	
7	Act: Design O2O Retail Experiences with AR/VR	Activity
	Introduction to AR/VR	Group Discussion
	Online-to-Offline (O2O) Commerce	Case Discussion
	Topic Questions	
	 How is O2O commerce reshaping e-commerce? 	Assessment
	How can brands use AR/VR to create immersive retail experience?	Group Project (Due: End of Week 12)
	Reading	Present: In Week 13)
	Gibbons, S. (2023, April 18). Online-To-Offline (O2O) Could	
	Revolutionize E-Commerce Business. Forbes.	
	 Papagiannis, H. (2021, November 1). How AR Is Redefining Retail in the Pandemic. Harvard Business Review. 	
8	Act: Design O2O Retail Experiences with AR/VR	Activity
Ü	Devices and Platforms for AR/VR Content Creation	Hands-on Workshop
	Creating Immersive Shopping Experiences with AR/VR	· ·
	Workshop	
	Experiencing AR for O2O commerce	
	Designing AR for immersive shopping experience	
9	Advocate: Empower Brand Communities in the Metaverse	Activity
	 Introduction to Metaverse: Web3, NFT and Virtual Land 	Group Debate
	Building Brand Communities in the Metaverse	Case Discussion
	Topic Questions	
	 Metaverse marketing: Fad or Future? 	
	How can brands build loyal communities in the metaverse?	
	Case: Nike: Tiptoeing into the Metaverse	
	 Sawhney M. and Goodman P. (2022, May 26) Nike: Tiptoeing into the Metaverse. Northwestern Kellogg School of Management. 	
	Reading	
	 Marketing in the metaverse: An opportunity for innovation and experimentation. (2022, May 24). McKinsey. 	
	 Purdy M. (2023, April 2). Building a Great Customer Experience in the Metaverse. Harvard Business Review. 	

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10	Advecate Empoyer Prand Communities in the Metayers	Activity
10	Advocate: Empower Brand Communities in the Metaverse	Activity
	Devices and Platforms to Access the Metaverse	Hands-on Workshop
	 Creating Brand Experiences in the Metaverse 	
		Assessment
	Workshop	Online Quiz 2
	Exploring brand experience in the metaverse	(Due: End of Week 10)
	 Designing immersive virtual brand experience 	
11	Becoming a Future-Ready Marketing Leader	Activity
	Future of Work for Marketing	Group Discussion
	Future Cone and Backcasting	
	Topic Questions	
	 What is the future of work for marketing? 	
	What are the desired attributes of modern marketers?	
	Reading	
	21 Marketing Jobs of the Future (2019, April). Center For The	
	Future of Work, Cognizant.	
	 Lewnes A. and Keller K. 10 Principles of Modern Marketing (2019, 	
	April 12). MITSloan Management Review.	
12	Group Project Consultation	
13	Group Project Presentation	

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