GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)

Semester- IV

Course Title: Essentials of Digital Marketing

(Course Code: 4341601)

Diploma programme in which this course is offered	Semester in which offered
Information Technology	4 th Semester

1. RATIONALE

An exponential growth in the internet and mobile phone users during recent times has opened a wide range of communication opportunities for individuals and organizations. Today, individuals and organizations have started using the internet and digital media as their main marketing strategy in the form of digital marketing. In today's world, everyone is connected in a digital way. Digital Marketing enables us to utilize the capabilities of every online platform in the best possible way. Therefore, there is a need to understand the essentials of Digital Marketing and to inculcate the skills of digital marketing among students.

This course provides a detailed understanding of the basics of Digital Marketing concepts, digital marketing platforms, search engine optimization, web analytics, and social media tools and marketing, email marketing, etc. This course will sensitize students to formulate digital marketing strategies and use appropriate tools in an integrated manner. The students will also learn to measure the effectiveness of their digital campaigns using various analytical tools.

2. COMPETENCY

The course content should be taught and implemented with the aim to develop various types of related skills leading to the achievement of the following competency

- Explain the role and importance of digital marketing in a rapidly changing world.
- Demonstrate advanced practical skills in common digital marketing tools and online platforms.

3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge, and the relevant soft skills associated with this competency are to be developed in the student to display the following COs:

The practical experiences and relevant soft skills associated with this course are to be taught and implemented so that the student demonstrates the following industry-oriented COs associated with the above-mentioned competency:

- a) Explain the role of Digital Marketing in the rapidly changing digital landscape.
- b) Apply Search Engine Optimization techniques in digital marketing.
- c) Use website analytics to improve the effectiveness of advertisement and conversion rate.
- d) Create Digital Marketing Campaigns using various social media marketing platforms and measure their effectiveness.
- e) Apply Search engine marketing techniques for creating effective advertising campaigns.

4. TEACHING AND EXAMINATION SCHEME

Teachi	ing Scl	heme	Total Credits	Examination Scheme				
(In Hours)		s)	(CI+T/2+P/2)	Theory Marks Practical Marks Tota				
CI	Т	Р	С	CA	ESE	CA	ESE	Marks
3	0	4	5	30	70	25	25	150

Out of 30 marks under the theory CA, 10 marks are for assessment of the micro-project To facilitate the integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessing the attainment of the cognitive domain UOs required for the attainment of the COs.

Legends: CI-Classroom Instructions; T – Tutorial/Teacher Guided Theory Practice; P - Practical; C – Credit, CA - Continuous Assessment; ESE - End Semester Examination.

5. SUGGESTED PRACTICAL EXERCISES

The following practical outcomes (PrOs) that are the subcomponents of the COs. Some of the **PrOs** marked '*' are compulsory, as they are crucial for that particular CO. These PrOs need to be attained at least at the 'Precision Level' of Dave's Taxonomy related to the 'Psychomotor Domain'.

Sr. No	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. Req
1	Prepare Report on P.O.E.M. framework and its benefits in digital marketing.	1	02
2	Analyze Amazon, Flipkart, Snapdeal, or any three e-commerce sites for the following: (i) Do a comparative analysis of their product offerings (ii) Do a comparative analysis of their landing pages (iii) Do a comparative analysis of their call to action (CTA) (iv) Do a comparative analysis of website loading and website navigation (v) Find the rankings of Amazon, Flipkart, Snapdeal using Alexa.com	II	04
3	Use any SERP simulator tool to check SERP snippet preview of any website for title tag and meta tag descriptions. (https://popupsmart.com/tools/serp-preview-tool/)	11	02
4	Pick up the website name of any two top TV brands you like and conduct an SEO audit (with any of the free available audit sites) on key On-Page and Off-Page impact parameters. Prepare a report on your key observations.	II	04
5	Conduct an audit of any website for performance, accessibility, progressive web apps, and SEO using Lighthouse Tool or other similar tools. (https://developer.chrome.com/docs/lighthouse/overview/)	II	06

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6	Use the Google Tag Manager to insert the tracking code in the sample web pages of your website.	III	02
7	Use Google Analytics to analyze website performance.	III	04
8	Create a Facebook ad campaign and analyze the performance of your Facebook ad accounts and campaigns with AdsReport.(https://adsreport.agorapulse.com/home)	IV	04
9	Compare your Facebook page performance pages using the Barometer Facebook page analytics tool or other similar tools (https://barometer.agorapulse.com/home)	IV	02
10	Design infographics, ads, covers, and posts for social networks using Canva tool.	IV	04
11	Create an engaging video using Loom or any other tool and share it on social media. (https://www.loom.com/)	IV	02
12	Create a proxy YouTube ad and measure the success using YouTube Analytics.	IV	04
13	Create an Email marketing campaign for the blood donation camp at your institute. You are required to identify the ideal target audience and develop proper email messages which will increase open email rate, engagement, and ultimately registration and attendance to the event. You can useMailChimp, sender, or any of the available tools for designing and testing campaign success.	V	04
14	Design an email marketing campaign to reactivate dormant users for gym membership/ Library and measure the effectiveness of this campaign.	V	04
15	Create a proxy ad campaign using Google Ads and measure the effectiveness.	V	04
16	Optimize your Google Ad campaign results with the use of the Google Analytics tool, proper keyword selections, Ad groups, and bid adjustments.	V	04
	Total		56

<u>Note</u>

- i.More **Practical Exercises** can be designed and offered by the respective course teacher to develop the industry-relevant skills/outcomes to match the COs. The above table is only a suggestive list.
- ii. The following are some **sample** 'Process' and 'Product' related skills (more may be added/deleted depending on the course) that occur in the above-listed **Practical Exercises** of this course required which are embedded in the COs and ultimately the competency.

S. No.	Sample Performance Indicators for the PrOs	Weightage in %
1	Analyze and identify a suitable approach for the problem- solving	25
2	Use of appropriate technology/software/tools	25
3	Relevance and quality of output	20
4	Interpret the result and conclusion	15
5	Prepare a report/presentation for the given problem	15
	Total	100

6. MAJOR EQUIPMENT/ INSTRUMENTS AND SOFTWARE REQUIRED

These major equipment/instruments and Software required to develop PrOs are given below with broad specifications to facilitate procurement of them by the administrators/management of the institutes. This will ensure the conduction of practical in all institutions across the state in a proper way so that the desired skills are developed in students.

S. No.	Equipment Name with Broad Specifications	PrO. No.
1	Computer system with an operating system and Internet Facility	All
2	SERP simulator tool	2
3	https://www.seoptimer.com/, https://www.semrush.com/siteaudit/	3
3	Google Tag Manager	6
4	https://www.sender.net/, MailChimp	13, 14

7. AFFECTIVE DOMAIN OUTCOMES

The following *sample* Affective Domain Outcomes (ADOs) are embedded in many of the above-mentioned COs and PrOs. More could be added to fulfill the development of this competency.

- a) Work as a leader/team member.
- b) Follow ethical practices.

The ADOs are best developed through laboratory/field-based exercises. Moreover, the level of achievement of the ADOs according to Krathwohl's 'Affective Domain Taxonomy' should gradually increase as planned below:

- i. 'Valuing Level' in 1st year
- ii. 'Organization Level' in 2nd year.
- iii. 'Characterization Level' in 3rd year.

8. UNDERPINNING THEORY

The major Underpinning Theory is formulated as given below and only higher level UOs of *Revised Bloom's taxonomy* are mentioned for the development of the COs and competency in the students by the teachers. (Higher level UOs automatically includes lower level UOs in them). If required, more such higher-level UOs could be included by the course teacher to focus on the attainment of COs and competency.

Unit	Unit Outcomes (UOs)	Topics and Sub-topics			
Unit –1: Introduction to Digital Marketing	 1a. Differentiate traditional and digital marketing. 1b. Describe the framework and skills for digital marketing. 1c. Explain the importance of data privacy in digital marketing. 	 1.1 Concept of Digital Marketing 1.2 Evolution of Digital Marketing 1.3 Digital Marketing Strategy: P.O.E.M. Framework 1.4 Skills required in Digital Marketing 1.5 Digital Marketing Plan 1.6 Digital Advertising market in India 1.7 Dignified Digital Marketing: Ethics and Data privacy 			
Unit– 2: Introduction to Search Engine Optimization (SEO)	 2a. Describe the need and process of SEO. 2b. Compare different methods of SEO. 2c. Explain different optimization techniques. 2d. Discuss various aspects of search engine marketing. 2e. Explain how social media is related to SEO. 	2.1 Introduction to SEO i. Overview of SEO ii. Need of SEO iii. How does a search engine work? 2.2 SEO Tactics and Methods i. White Hat SEO ii. Black Hat SEO 2.3 Optimization i. On-page optimization ii. Off-page optimization 2.4 Introduction to Search Engine Ranking i. What is SEO ranking ii. Important Factors for SEO ranking iii. Different ways to improve SEO rankings 2.5 Social media and SEO			
Unit-3: Website Analytics	3a. Select proper metrics for Web Analytics3b. Use various web analytics tools	 3.1 Data collection, Weblogs & Page tagging, Key metrics: Unique visitors, Pageviews, Pages/visit, Avg Visit Duration, Bounce rate, New Visits 3.2 Types of web analytics Tools: Content analytics tools, Customer analytics tools, Usability (UX) analytics tools, A/B and multivariate testing tools, social media analytics tools, SEO analytics tools, General enterprise analytics tools, Open- source web analytics tools, Product 			

	1	Land Particular
	2. 4	analytics tools
	3c. Analysis goals and its success	3.3 Setting up goals and conversion rate, goal
		reports in Google Analytics
	3d. Manage Multi-channel	3.4 Attribution models
	Attributions for effective ad	i. Single-touch attribution models: First-
	campaign	click, Last-click, Last non-direct click
		ii. Multi-touch attribution models: Linear,
		Time decay, Position-based
		iii. Connect offline with online
	3e. Use Tracking Codes for	3.5 Long tracking code, Obfuscated tracking
	analysis	code, their pros, and cons, UTM codes
	4a. Explain the	4.1 Introduction to social media marketing
	importance of social	i. importance and benefits of social
	media marketing	media marketing
		ii. Types of social media marketing
	4b. Use Facebook for	iii. Building a better Social Media
	digital marketing	Marketing Strategy
Unit-4:		4.2 Introduction to Facebook Marketing
Oine 4.	4c. Use Twitter for digital	i. Understanding the Facebook
Social Media	marketing	Algorithm for delivery of ads
Marketing		ii. Facebook Marketing Assets (Facebook
	4d. Use LinkedIn for	Page, Business Manager, Facebook
	digital marketing	Ads)
		iii. Facebook Ads Strategy
	4e. Use Instagram for	iv. Creating & optimizing advertising
	digital marketing	campaigns
		v. Facebook Insights and pixel
	4f. Use YouTube for	4.3 Introduction to Twitter Marketing
	digital marketing	i. Types of Twitter Ads
		ii. Twitter Advertising Campaigns
		iii. Twitter analytics
		4.4 Introduction to LinkedIn Marketing
		i. Introduction and Importance of
		LinkedIn Marketing
		ii. Types of LinkedIn ads
		iii. LinkedIn's Campaign Manager
		iv. LinkedIn Analytics
		4.5 Introduction of digital marketing
		Strategies through Instagram
		i. Types of Instagram Content
		ii. Instagram Ads
		iii. Instagram insights
		4.6 Importance of Video Marketing
		i. Types of YouTube Ads
		ii. Setting up Video campaign
		iii. YouTube Analytics
	1	iii. TouTube Alialytics

	5a. Apply Email	5.1 Importance of Email Marketing
	Marketing techniques	i. Types of Email marketing
		ii. Email marketing campaign
		iii. Email marketing analytics
Unit-5: Digital	5b. Apply Search Engine	5.2 Introduction to SEM and pay-per-click (PPC)
Promotions	Marketing techniques	i. PPC vs SEO
		ii. Introduction to Google Ads
		iii. Types of Google Ads Campaigns
		iv. Ad Extensions
		v. Creating ad campaigns
		vi. Google Ads Bidding and Ranking
		Strategies
		vii. Performance Reports

Note: The UOs need to be formulated at the 'Application Level' and above of Revised Bloom's Taxonomy' to accelerate the attainment of the COs and the competency.

9. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit	Unit Title	Teaching	Distribution of Theory Marks				
No.		Hours	R	U	Α	Total	
			Level	Level	Level	Marks	
I	Introduction to Digital Marketing	04	04	06	00	10	
II	Search Engine Optimization	10	04	08	04	16	
Ш	Website Analytics	08	06	06	02	14	
IV	Social Media Marketing	12	06	08	04	18	
V	Digital Promotions	08	02	06	04	12	
	Total	42	22	34	14	70	

Legends: R=Remember, U=Understand, A=Apply and above (Revised Bloom's taxonomy) **Note**: This specification table provides general guidelines to assist students for their learning and to teachers to teach and question paper designers/setters to formulate test items/questions assess the attainment of the UOs. The actual distribution of marks at different taxonomy levels (of R, U, and A) in the question paper may vary from the above table.

10. SUGGESTED STUDENT ACTIVITIES

Other than the classroom and laboratory learning, the following are the suggested student-related *co-curricular* activities that can be undertaken to accelerate the attainment of the various outcomes in this course: Students should conduct the following activities in groups and prepare short reports (of 1 to 5 pages for each activity). For micro projects, the report should be as per the suggested format, for other activities students and teachers together can decide the format of the report. Students should also collect/record physical evidence

such as photographs/videos of the activities for their (student's) portfolio which will be useful for their placement interviews:

- a) Undertake micro-projects in teams.
- b) Prepare charts to explain the use/process of the identified topic.
- c) Students are encouraged to prepare infographics, posters, certificates, or banners for promoting college activities and events.
- d) Students are encouraged to register themselves in various MOOCs such as Swayam, edx, Coursera, Udemy, etc. to further enhance their learning and to do the certification course on Digital Marketing.
- e) Students are encouraged to make a blog or any social media page of their college or department to promote the events.

11. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

- a) Massive open online courses (**MOOCs**) may be used to teach various topics/subtopics.
- b) Guide student(s) in undertaking micro-projects.
- c) Managing Learning Environment
- d) Diagnosing Essential Missed Learning concepts that will help students.
- e) Guide Students to do Personalized learning so that students can understand the course material at their pace.
- f) Encourage students to do Group learning by sharing so that teaching can easily be enhanced.
- g) 'CI" in section No. 4 means different types of teaching methods that are to be employed by teachers to develop the outcomes.
- h) About **20% of the topics/sub-topics** which are relatively simpler or descriptive in nature is to be given to the students for **self-learning** but to be assessed using different assessment methods.
- i) With respect to **section No.10**, teachers need to ensure the creation of opportunities and provisions for **co-curricular activities**.
- j) Guide students on how to address issues on environment and sustainability using the knowledge of this course

12. SUGGESTED MICRO-PROJECTS

Only one micro-project is planned to be undertaken by a student that needs to be assigned to him/her at the beginning of the semester. In the first four semesters, the micro-project is group-based (groups of 3 to 5). However, **in the fifth and sixth semesters**, the number of students in the group should **not exceed three**.

The micro-project could be industry application-based, internet-based, workshop-based, laboratory-based or field-based. Each micro-project should encompass two or more COs which are in fact, an integration of PrOs, UOs, and ADOs. Each student will have to maintain a dated work diary consisting of individual contributions to the project work and give a seminar presentation of it before submission. The total workload on each student due to the micro-project should be about **16** (sixteen) student engagement hours (i.e., about one hour per week) during the course. The students ought to submit a micro-project by the end of the semester (so that they develop the industry-oriented COs).

A suggestive list of micro-projects is given here. This should relate highly to the competency of the course and the COs. Similar micro-projects could be added by the concerned course teacher:

- a) Prepare a report on Tools to Analyze Digital Marketing Competitors
- b) Perform analysis of Visual Keyword Tools for Search Engine Marketing
- c) Design Social Media Strategies for Online Shopping Carts using remarketing techniques
- d) Create SEO friendly Blog on any topic or product
- e) Prepare a case study on Search Engine marketing techniques
- f) Prepare SEO study of various websites.
- g) Prepare a small website for an event at your institute, analyze users' behavior and prepare statistical reports.
- h) Design a website, host it on a free server, measure page views, visitors, repeat visitors, bounce rate, etc., and prepare reports.

13. SUGGESTED LEARNING RESOURCES

Sr. No.	Title of Book	Author	Publication with place, year and ISBN
1	Digital Marketing	Seema Gupta	McGraw Hill, 3rd Edition 935532040X · 9789355320407 Published: August 5, 2022
2	The Art of Digital Marketing: The Definitive Guide to Creating Strategic, Targeted, and Measurable Online Campaigns	lan Dodson	Wiley Publication ISBN: 978-1-119- 26570-2, May 2016
3	Fundamentals of Digital Marketing	Puneet Singh Bhatia	Pearson 2nd Edition – 2019
4	Understanding digital marketing strategies for online success	Dishek J.Mankad	BPB Publications (August 26, 2019)
5	eMarketing: The Essential Guide to Marketing in a Digital World	Rob Stokes	ISBN 13: 9780620565158, Publisher: Red & Yellow
6	Practical Web Analytics for User Experience: How Analytics Can Help You Understand Your Users	Michael Beasley	Morgan Kaufmann; 1st edition (2013) ISBN: 978-0124046191

14. SUGGESTED LEARNING WEBSITES

- a) https://learndigital.withgoogle.com/digitalgarage/courses?category=digital_marketing
- b) https://onlinecourses.swayam2.ac.in/ugc19 hs26/preview
- c) https://onlinecourses.swayam2.ac.in/cec23 mg08/preview
- d) https://digitalagencynetwork.com/work/case-studies/
- e) https://www.digitalvidya.com/blog/google-analytics-case-studies/ (For web analytics)
- f) https://www.facebook.com/business/learn/courses
- g) https://www.javatpoint.com/seo-tutorial
- h) https://www.pageonepower.com/search-glossary/seo-search-ranking

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15. PO-COMPETENCY-CO MAPPING

Semester IV	Essentials of Digital Marketing (4341601)								
Semester IV	POs and PSOs								
Competency & Course Outcomes	PO 1 Basic & Disciplin e specific knowled ge	m Analys is	PO 3 Design / develo pment of solutio ns	PO 4 Engineering Tools, Experiment ation and Testing	PO 5 Engineering practices for society, sustainability & environment	PO 6 Project Managem ent	PO 7 Life- long learni ng		
Competency									
Explain the role and importanc Demonstrate advanced practical	_					rms.			
Course Outcomes CO a) Explain the role of digital marketing in the rapidly changing digital landscape.	2	1	-	-		-	2		
CO b) Apply Search Engine Optimization techniques in digital marketing.	2	2	2	2	-	2	2		
CO c) Use website analytics to improve the effectiveness of advertisement and conversion rate.	2	2	2	-	-	-	1		
CO d) Create Digital Marketing Campaigns using various social media marketing platforms and measure their effectiveness.	3	2	2	3	-	-	2		
CO e) Apply Search engine marketing techniques for creating effective advertising campaigns.	3	2	2	3	-	-	2		

Legend: '3' for high, '2' for medium, '1' for low, or '-' for the relevant correlation of each competency, CO, with PO/ PSO

16. COURSE CURRICULUM DEVELOPMENT COMMITTEE

GTU Resource Persons

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