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RESEARCH ARTICLE

IMPACT OF GREEN BRAND TRUST, GREEN BRAND AWARENESS, GREEN BRAND IMAGE, AND GREEN PERCEIVED VALUE ON CONSUMER'S INTENTION TO USE GREEN PRODUCTS: AN EMPIRICAL STUDY OF JORDANIAN CONSUMERS.

Mohammad saleem alshura¹, Abdelrahim. M. Zabadi².

1. The world Islamic sciences & Education University: College of Business.
2. University of Business&Technolgy: College of Engineering & InformationTechnology

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*Corresponding Author

Mohammad saleem
alshura.

Abstract

This paper aims to study the effect of trust in green bran, image of green brand, awareness in green brand, and green perceived value on consumer's intention to use green products in Jordan context. A survey was managed by using questionnaires to gather data from (450) people in Amman city the capital of Jordan. By using descriptive and inferential statistics, the collected data were analyzed. Multiple regression analysis was used to examine the hypothesis. The findings revealed that there are statistically significant relationships between trust in green bran, awareness of green brand, green perceived value, and Jordan's consumer intention to use these products, while image of green brand was not having.

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Introduction:-

Indeed, the world encounters an environmental sustainability issues and environmental problems affecting and changing the consumptions patterns of human life and activities. Green marketing is a wide concept and includes the promotion and ads activities of products, services, and corporations with ecological concerns. Green marketing includes a wide range of activities like changes in the production process, packaging changes remodeling, modification in products, and stylizing as well as modifying advertising activities and campaigns (1). The environmental concern speedily emerges as key issue for consumers and businesses alike because of global warming. For this, many companies are seeking to seize this opportunity.

In the current years, due to the tremendous amount of ecological pollution which immediately concerns with industrial manufacturing in the world, associations pay more attention to this issue is growing steadily. This interest has led to several companies to express their willingness and readiness to accept such responsibilities and issues relating to the environment. It must be emphasized in this respect that not all companies have a capability to commercialize their green products to their consumers. If companies are willing to adopt green marketing successfully and efficiently, thereafter their environmental notions should be incorporated into all parts of marketing. If companies were able to provide products / services that meet the environmental needs for customer, then the customer will prefer such product or service.

In the advent of ecological era, firms have to discover an opportunities to reinforce their products' environmental performance to strengthen their trade mark equities. Business organizations need to participate in the green marketing which the business owners must have an environmental conscience from the processes of product

designing, manufacturing, packaging and advertising until the products being the hands of consumers in response to continuously increasing and expanding green consumerism (2). In addition, the consumers are willing to pay higher prices to purchase the environmentally friendly products and services.

Because of more popular environmentalism in the world, the sales of green products have dramatically increased nowadays, and, therefore, more consumers are willing to pay higher price for green products (3). According to (Yu – Shan Chen, 2009), five reasons for companies to develop green marketing: compliance with environmental pressures; gaining competitive advantage; improving corporate images; seeking new markets or opportunities; and enhancing product value (4). Therefore, this study assumed that understanding green marketing by companies could raise their intangible brand and attracts more customers.

Although previous studies have paid great attention to explore the relevant issues for green brand awareness, green brand trust, green brand image, and green perceived value [(5); (3); (6)], none of these explored them about green or ecological issues and its impact on consumers' intention to use. Thus, this study intends to fill this gap. Also, this study proposed four constructs – Green brand awareness; green brand trust; green brand image; and green perceived value – and discussed their implications in the field of green marketing. In addition, this study developed a research model and examined it, which can enhance green marketing.

In the Arab region particularly, we note that there is a growing environmental awareness at the official level as response to global developments in the field of social responsibility and environmental awareness, especially in the past decades. This was demonstrated through the enactment of several environmental laws and issuance of various legislation aimed at preserving the environmental and its natural resources, especially non – renewable materials. In addition to that, this environmental awareness has led to emergence of movements and non-official groups that supports the global trend to preserve the environment, and denounces all environmentally harmful behavior practices.

Finally, the structure of the current research is as follows: a literature review is discussed in literature review and hypothesis development section, and four research hypotheses are also assumed. In research methodology section, this study described the methodology, sample, data collection, and the measurement of the variables. Next, descriptive statistics, reliability of measurements. In the end, this study mentioned the discussions about the findings and implications, and pointed out possible directions for future research in conclusion and implications section.

Study objective:-

The objective of study is to: investigate the influence of green brand trust, Green brand awareness, green brand image, and green perceived value on the Jordanian customers' intention to use green products.

Problem statement:-

Although many studies investigate the different aspects of green brand, there is a shortage of an empirical study about how to increase customers' intentions to use these green products among Jordanian customers and other Arab Countries. So, the first problem in this research is the lack of empirical studies on these dimensions and its effect on customers' intention to use green products in Jordan. After carefully reviewed of the previous studies on the same subject, it was noted that it have looked at green brand awareness, green brand trust and green brand image of green products, others looked at green perceived value.

However, little of these studies looked at all these factors together. In addition to that, these studies have linked green brand awareness to green perceived risk, and buying decisions, but not with intention to use green products as this research intend to do. According to this literature gap and review, the research problem is "investigating whether green brand awareness, green brand trust, green brand image, and green perceived value has a relationship to intention to use green products among Jordanian consumers.

Research importance: According to the background and significance of the problem statement mentioned above, the researcher was interested to investigate the influence of green brand dimensions and green perceived value on Jordanian customer intention to use green products. In the study, the researcher selected four constructs: green brand image, green brand trust, green brand awareness, and green perceived value. This study could help in a decision - making on the brand to create and gain a competitive advantage. Also, it provides a body of knowledge in the field

of green marketing to marketers, manufacturers, or those who are interested in applying or a guideline for planning the strategies of the brand and creating a strong brand.

Literature review and hypotheses development:-

This research was established on a literature review as follows:

Intention to use:-The Theory of Reasoned Action (**TRA**) first developed by Martin Fishbein and revised and expanded by Fishbein and Icek Azjen in the decades that followed, is a theory that focuses on a person's intention to behave a certain way. An intention is a plan or a likelihood that someone will behave in a particular way in specific situations — whether or not they actually do so [(7); (8)]. This Theory has been broadly developed in comprehending consumers' decision-making processes in different contexts [(9); (8)].

According to **TRA**, behavioral intention is a function of two factors; namely, attitude toward subjective norm and performing the behavior [(7); (8); (9)]. To understand behavioral intent, which is seen as the main determinant of behavior, the **TRA** looks at a person's (or population's) attitudes towards that behavior as well as the subjective norms of influential people and groups that could influence those attitudes (9).

TRA proved its applicability in explaining social behavior purposed at buying green products. The most excellent predictors of the intention to buy green products are attitudes towards the behavior perceived value (10). Vazifehdoust (2013) indicated that the intention of customers to buy green products is defined by having a positive attitude and green perceived value toward green products (11).

Trust in a green brand:- According to (Chen, 2010), green brand trust is defined as “the readiness to be depended on only one thing based on the trust or belief resulting from its reliability, kindness, and capability about eco-friendliness” (3). According to Mayer et al. (1995) trust has three characteristics (ability, benevolence, and integrity) (12), is an expectancy held by one that the word or promise of another one be able to be relied on (13).

Consumer trust is a fundamental determinant of long-term consumer attitude (14). For that consumer intent to purchase influenced his trust for that product or service. Our research model proposed that green brand trust influence customer intention to use green product, alike [(14); (15)], confirmed that customers purchase intentions significantly affected by customers' trust and it is a determinant of consumer purchase intentions to buy.

Also supported a study conducted by Kang (2012) affirms that green satisfaction has positive impacts on green trust and green affect (16). These findings support our hypothesis in positive significant relationship with customers' intention to buy eco – friendly products. Purchasers trust with the sellers will lead to a higher level of buy intentions. All this confirms that prior consumer trust in the product is very necessary for his intention to use. **This leads to the hypothesis saying that:**

Hypothesis One (H1): Trust in a green brand has a statistically significant relationship with Jordanian's customer intention to use green products.

Awareness in a green brand:- The study proposes the green brand awareness and it can be defined as: “the ability for a buyer to recognize and to recall that a brand is environmental friendly” [(17); (18)]. Customers whom have some environmental concerns their purchasing decision is positively affected by green product, price awareness and brand image awareness. Hence the role of marketers is providing information relating to the green products.

Governmental and Non-Governmental organizations should take initiatives to originate environmental awareness among customers then absolutely this will led to increase the sales of green products. If there is higher level of brand equity then customer will buy a brand to which higher brand awareness is attached and with the strong association of brand awareness there is a positive influence on consumer's buying behavior towards green product (19).

Ng (2013) stated that increasing awareness amongst customers on environmental threats caused by electronic products has pushed companies to incorporate eco-friendly attributes in their products to fulfill consumers green expectations (6). Thus, the corporations that offering environmentally sustainable products and services will promote their green perceived value of brands.

However, mixing green features in products or services not directly impact perceived value of a trading name. Chen (2012) indicates that awareness about products, especially green products, create positive perception about the products and decrease the perceived risk of green products (20). Ottman (2008) found that there is a strong positive effect and correlation of green awareness, green brand image and green trust and green brand preference (21).

According to the definition of green brand awareness, this study proposes that that green brand awareness is positively related to buying decision of customers. Furthermore, according to social cognitive theory, environmental issues modify the human behavior (22), and human behavior influences the aspects of the environmental to which they are exposed, for example, awareness and education about green products significantly effect on purchasing behavior of customers [(23); (24); (25)]. **Accordingly, the following hypothesis was formulated:**

Hypothesis Two (H2): Awareness in green brand has a statistically significant relationship with Jordanian's customer intention to use green products.

Image of a green brand:-Chen (2010) defines green brand image as “a whole range of impressions, conceptions and apprehensions towards a brand in the customers’ memory which is correlated to the sustainability and eco-friendly concerns” (3). Cretu (2007) defines brand image as “the consumer’s mental visuals that illustrate a specific brand which is related to the products produced by a company”(26).

Brand image is the spirit of the product or service, which is usually passed on to consumers, thus causing them to believe in a certain level of production and helping them to make a purchase decision(19). The main advantage of creating grand brand image is the definite increase in environmental awareness, which companies can exploit for competitive advantage through the deployment of their products in different markets (27). Ko (2013) the outcomes of green marketing significantly connected to the creating a positive brand image for green products, and results shows that the customers intention to use these products (28).

Mourad (2012) stated the green brand image is understood to have a positive effect on the green brand choice (29). Both, company's reputation and positive grand image enhance consumer's intention to use green products. Company's success in attracting additional customers and creating loyalty for its products is important step in appropriate marketing strategies. An individual is inherently tends to choose products which are more well – known according to social cognitive theory. This means that the reputability and brand image is a valid reason of individual purchasing activities, decisions, and behaviors [(30); (31); (32)]. **Based on the foregoing; the following hypothesis has been developed:**

Hypothesis Three (H3): Image if a green has a statistically significant relationship with Jordanian's customer intention to use green products.

Green brand perceived value:-The concept of perceived value in recent years has been the focus of many studies [(33); (34); (35)]. Perceived value is described as “a customer’s general assessment of the net benefit of a service or product based on a customer’s judgment” (33). Perceived value because it has a positive effect on marketing performance (Sweeney et al., 1999). Because perceived value is more significant today’s, corporations can increase customer purchase intention through product value (36). Perceived value can not only be a central determinant in maintaining long-term consumer relationships, and also play a key role in affecting intentions to buy (37); perceived value is also significant in influencing consumer trust (38).

According to [(39); (40)], green brand is an overall assessment of the perceived value of a product or service by the customer, and the net profit between what is perceived and what customers are offered based on environmental concerns, expectations, and needs of a sustainable green product. Nowadays, consumers believe that the use of environmentally friendly products offers many advantages compared to the conventional products (41); therefore, the needs of the customers for green products or services could be developed while the perceived value of the desired brand/green product increases (20).

Green perceived value is one of the most significant for green users. More and more consumers actually care about their purchases, it is important for them that green products which they buy were accepted in their social surrounds (19). If a product execute poorly in terms of social approval, negative incident like disagreement or dissatisfaction are probably could happen [(19); (6); (42); (43)]. **Based on the discussion above it can be hypothesized that:**

Hypothesis Four (H4): Green perceived value has a statistically significant relationship with Jordanian's customer intention to use green products.

Research model:-

Based on the frame of reference discussed in the literature, the authors have developed a research model. Authors of this model will describe what factors are influences on consumer in his decision making behavior towards the ecology problems. These factors are influence on consumer which lead his behavior towards action, which in turn consumer decide to buy the ecology energy and finally outcome is acceptance and continue to adopt the process for ecology product.

For this study, the theoretical framework was adopted from previous studies [(3);(29);(5);(10)] on green marketing. These studies carried out a research on the relationship of these green brand constructs with intention to utilize the green products. Others concentrate that green perceived value is positively important relationship with customer's intention to use green products. Furthermore, the main theory for this study was the theory of reasoned action (TRA) and technology acceptance model (TAM). The researcher expanded these studies by adding additional variables to include perceived green value and intention to use green products as depicted in figure (1).

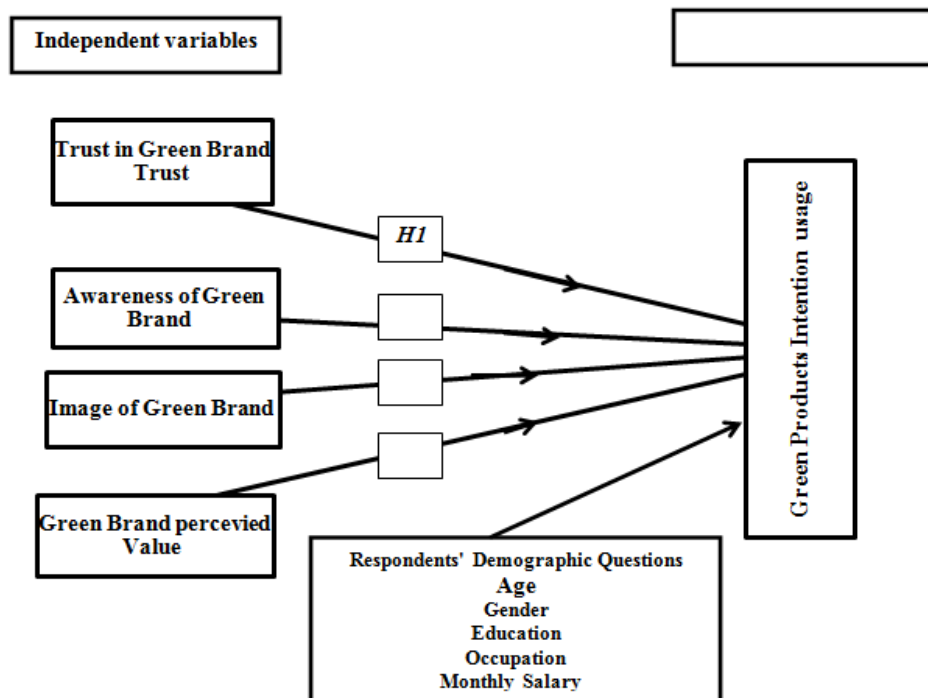


Figure (1): Research Model

Research design and methodology:-

A quantitative research method was applied using a questionnaire to fulfill the aim which is to investigate the linkage between green brand trust, green brand awareness, green brand image, and perceived value and customers' intention to use green products in Jordan context. These kinds of studies are suitable to test the importance of the correlations between investigated constructs (44), also relationships between variables were tested through the causal research technique (45).

Research population:-The population of this study includes all customers of the largest shopping centers in Amman, the capital of Jordan, specifically: **Safeway, Mecca Mall, and City Mall**, due to the availability of some green products in these centers.

Primary data and research sample:-Primary data was undertaken by gathering information directly from respondents out of questionnaire designed to collect primary data from customers to explain the relationship between variables shown in research framework. Because there is no method to quantify the number of entrants from customers to these malls, this study used convenience sampling techniques to collect the representative sample from customers.

Total of (450) questionnaires were distributed using drop and collect method among customers of those three centers under study. From (450) questionnaires, (400) questionnaires were filled up and returned, fifteen of them have been neglected and considered as incomplete data. Overall, (385) questionnaires were usable for further analyses. Multiple regression analysis was used to analyze the relationship between selected variables.

Secondary data:-An overall review of literature was carried out to identify the literature gaps. Also, databases, books, conference papers, journal articles, thesis and working papers from both national and international researches were utilized to ensure the quality of the study.

Research instrument:-Questionnaire items were adapted from several studies of previous literature with pre tested, reliable and valid scales. These scales were modified to suit this study. The questionnaire consists of two parts. The first part includes the demographic profile of the respondents such as gender, age, education, income, and position. This was followed the second part by (24) items. Trust in green brand was measured using (5) items developed by (20), (5) items to measure awareness in green brand were adopted from (23), image of green brand was measured using (5) items which were adopted from (10), green perceived value was measured using (5) items adopted from (10), and consumer intention to use green products trust was measured using (4) items developed by authors. Each rated on five – point Likert scale running from (1 = Strongly disagree, 2 = Disagree, 3 = Undecided, 4 = Agree, and 5 = Strongly Agree). In this study, face validity and content validity of the scale was ensured through consultation by experts in the field.

Statistical methods:-The result processing is conducted by using "SPSS" program to calculate the different statistics used in this study: **Descriptive statistics used to analyze and compare the responses in terms of respondent profile:** frequency, percentage, mean and standard deviation, and **inferential statistics** analysis by using a multiple regression analysis for examining the hypotheses testing.

Results:-

This part of the study offers the data analyses and the empirical findings acquired from statistically testing the data. Respondents' profile questions of the questionnaire for this study were asking the respondents': Age, Gender, Education, Occupation, and Monthly salary. The frequency and percentage of demographic distribution of (385) respondents are given in **Table (3)**. Descriptive analysis and reliability test are shown in **Tables (1 and 2)**, respectively. Cronbach's Alpha value is greater than (0.70) for designed questions, this indicates that the statements measurements are valid to measure the constructs (46).

Table (1): Descriptive Analysis.

Variables	Mean	Standard Deviation (SD)
Green Brand Trust	3.479	1.99
Green Brand Awareness	3.669	0.960
Green Brand Image	3.480	1.101
Perceived Value	3.119	1.320
Intention to Use Green Products by customers	3.459	1.129

Table (2): Reliability

Variables	No. of Statements	Cronbach's Alpha
Green Brand Trust	5	0.901
Green Brand Awareness	5	0.923
Green Brand Image	5	0.932
Perceived Value	5	0.945
Intention to Use Green Products by customers	4	0.930

Table (3): Respondents' profile.

Item	Frequency	Percentage (%)
GENDER		
Male	256	66.5%
Female	129	33.5%
AGE		
Below 30 yrs.	128	33.25%
Between 31 and 40 yrs.	84	21.82%
Between 41 and 50 yrs.	74	19.22%
Greater than 50	99	25.71%
EDUCATION LEVEL		
College Degree	55	14.30%
University degree	225	58.4%
Post Graduate	25	6.5%
Other	80	20.8%
OCCUPATION		
Self –Employed	33	8.57%
Employed	76	19.74%
Student	85	22.08%
Retired	75	19.48%
House keeper	37	9.61%
Other	79	20.52%
SALARY		
Less than 400 JD*	109	28.31%
Between 400 and 600 JD	129	33.50%
Between 600 and 800 JD	59	15.33%
Between 800 and 1000 JD	45	11.69%
More than 1000	43	11.17%
*Jordan Dinar TOTAL:385 100%		

The Pearson Correlation coefficient value shows the correlation between independent and dependent constructs. Based on information based on **Table (4)**, there is high correlation between the independent variables and customer's intention to use green products as all Pearson values are greater than (0.90).

Table (4): Correlation among the constructs

	Intention to Use	Brand Trust	Brand Awareness	Brand Image	Perceived Value
Intention to Use	1.00				
Brand Trust	0.94	1.00			
Brand Awareness	0.96	0.91	1.00		
Brand Image	0.93	0.92	0.93	1.00	
Perceived Value	0.91	0.86	0.88	0.87	1.00

The findings of **F - test** demonstrates whether the suggested model for the current study is appropriate to describe the variations in customer's intention to use green products. **Table (5)** shows the P-value for ANOVA is (0.000) < .05, which indicates that the suggested model is suitable.

Table (5): ANOVA

	Sum of Squares(SoS)	Degrees of Freedom(DF)	Mean Squares(MS)	F-test	Sig.level
Reg.	471.90	04	117.00	3.79E3	000
Res.	14.49	378	0.39		
Total	486.39	382			

Table (6): Results Summary

R	R ²	R ² Adjusted	Standard Error	R ² change	F-test	Df1	Df2	Sig.
0.98	0.971	0.971	0.189	0.971	3086.67	4	378	0.0000

Testing of hypotheses:-

hypothesisOne (H1): Trust in a green brand has a statistically significant relationship with Jordanian's customer intention to use green products. The p – value for the relationship between trust in green brand, and Jordanian's customers' intention to use green products is also (**0.000**).Therefore, we can conclude that trust in a green brand has a statistically significant relationship with Jordanian's customers' intention to use green products.

Besides, the **beta value** for the relationship between trust in brand image and Jordanian's customers' to use green product is (**0.298**).This value is an indication that the relationship between the independent variable (trust in green brand), and the dependent variable (Jordanian's customer intention to use green products) is positive. Accordingly, the **first hypothesis (H1) also acceptable.**

Hypothesis Two (H2): Awareness in green brand has a statistically significant relationship with Jordanian's customer intention to use green products. In the same manner, for the relationship between awareness in green brand, and Jordanian's customers' intention to use green products – **the P – value is (0.000)** as shown in **table (7)**. So, we can conclude that awareness in green brand has a statistically significant relationship with Jordanian's customers' intention to use green products.

Besides, the beta value for the relationship between these two variables is (**0.599**).This value is an indication that the relationship between the independent variable (awareness in green brand), and the dependent variable (Jordanian's customer intention to use green products) is a **positive relationship**. As a result, the decision **requires accepting the second hypothesis (H2).**

Hypothesis Three (H3): Image of a green brand has a statistically significant relationship with Jordanian's customer intention to use green products. According to the findings, **the third hypothesis (H3) is rejected**; this due to the **P-value is (0.121)** for the relationship between image of green brand and Jordanian's customers' intention to use green products, also the value of beta is (**0.51**).

Ultimately, **hypothesis Four (H4): Green perceived value has a statistically significant relationship with Jordanian's customer intention to use green products.**The p – value is (**0.000**), there is a statistically significant and positive relationship between green perceived value and Jordanian customer's intention to use green products. Also, the Beta value is (**0.139**) as a consequence, **the fourth hypothesis (H4) is accepted.**

Table (7): Results of Multiple Regression Analysis

	B	Standard Error	Beta	t-test	Sig.
Constants	-0.309	0.499	-----	-6.840	0.000
Brand Trust	0.309	0.031	0.298	11.120	0.000
Brand Awareness	0.599	0.030	0.509	18.320	0.000
Brand Image	0.051	0.030	0.051	1.549	0.121
Perceived value	0.139	0.020	0.159	7.579	0.000

Discussion:

This research examines the influence of four variables on consumer's intention to use green products. From the results, it is investigated to note that only three factors, namely trust in green brand (**H1**), awareness in green brand (**H2**), and perceived value (**H4**) influenced the Jordanian consumer's intention to use green products. This supports the findings of previous studies proposed by [(3); (20); (9); (29)]. Awareness of green brand image is the strongest factor that has positively influenced their intention to use green products. This study confirmed that an individual who has some concern for the environment and its green brand image would have a stronger preference in using a green product.

In this respect, it is important for marketers to develop and implement emotional green branding strategies effectively and strategically to encourage positive sales of green products, as there is an increased demand for green products (47). Researches indicate that awareness about products, especially green products, create positive perception about the products and decrease the perceived risk of green products. Moreover, according to social cognitive theory, environmental issues modify the humans' behavior. And human's behavior influences the aspects of the ecological to which they are exposed.

Awareness about green products generates positive understanding about the products and minimizes the expected risk of green products. Over and above, according to social cognitive theory, ecological issues modulate the individuals' behavior towards green products. And that consequently affects human behavior towards the environmental problems they encounter.

The result also shows that there is a significant positive relationship between trust in green brand and customers' intention to use green products. This result supports the findings of many researchers [(14); (15); (48)] that customers buy intentions significantly affected by customers' trust and it is a crucial constraint of consumer purchase intentions. These findings indicate that customer trust is a primary determinant of consumer behavior and attitude, besides, high level of trust between the consumer and the seller leads to increased intention to purchase the product or service. So manufacturers should organize appropriate strategies to create trust in its products which will encourage consumers to purchase.

In the end, it must be noted herein that the study utilized **TRA** to examine the relationship between the independent and dependent variables included in the research model. Implication of **TRA** and Social Cognitive Theory in green marketing which provide a precious opportunity for further studies to support from these two theories. A result of this study presents a significant evidence for investigators to identify the link between these constructs.

The findings of this study provide a good evidence for scholars to explore the effects of brand awareness, brand trust, and perceived value of green products on customers buying behavior. And, this study explored the implication of Theory of Reasoned Action and Social Cognitive Theory in green marketing which provide opportunities to further studies to support for these theories.

Limitations and future researches:-

In order to obtain comprehensive results for this study, all possible steps to achieve that have been made. This study has some limitations, as all other research studies. These limitations and suggested future researches can be summarized as follows:

First: Sampling, the study was carried out on a limited size of population. So it is not easy to generalize the results; **second,** this study was conducted for all green products for better results future research can be studied on a particular product and brand; **third,** Lack of available studies, especially in the Arab world for the user's intention to use green products on behavior intention that leads to customers to use green products, for future researches it should be studied on different circumstances.

Implication for: governments, manufacturing companies, and marketers:-

Governments should develop plans to enact laws and legislations, and campaigns regarding environmental protection and sustainability in order to maintain the safety of homeland and the citizen from global warming.

Manufacturing Companies should originate an ecological awareness concerning ecological protection and sustainability amongst present and potential customers, and manufacture the green products at reasonable prices and high quality to satisfy green needs of customers.

Marketers and advertisers should use proper and fair ecological issues in their ads in order to increase sales and profits, as well as maintaining the present customers and acquiring others. Marketers also, should design strong brand evolution, and put forward brand awareness strategies to create and maintain the image of "I like Green" in customer's targeting.

Conclusion:-

This study contributes to theory and in practices alike. In theoretical framework, this study has contributed in the areas of green marketing and consumer behavior. It added a value to the existing literatures an indicator and incentive on green purchasing behavior amongst all customers in the Jordanian society. In practice, the study supplies shoppers and salesmen simultaneously understand more clearly understandable about how to influence consumer behavior towards purchase green products. Organizations in addition to that, can push sales and increase their market share by adopting an appropriate marketing strategy.

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