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# Religious Values and Sustainable Living: A Quantitative Study of Aparigraha among Jain Practitioners

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#### **Abstract**

This study explores the intersection of religious ethics and sustainable development by examining how the Jain principle of *aparigraha* (non-possessiveness/ nonattachment) influences consumption behavior among Jain practitioners. Grounded in the framework of Sustainable Development Goal 12 (Responsible Consumption and Production), the research investigates the extent to which religious values translate into environmentally sustainable practices. Using a quantitative research design, data were collected from a structured survey administered to a purposive sample of Jain individuals across urban and semi-urban regions. Statistical analyses were conducted to assess correlations between the degree of adherence to *aparigraha* and specific indicators of sustainable living, including minimalism, waste reduction, and conscious consumer behavior. Findings suggest a significant positive relationship between the internalization of *aparigraha* and sustainable lifestyle choices, indicating that religious teachings can play a meaningful role in promoting global sustainability goals. The study contributes to the growing body of literature on faith-based sustainability and offers practical insights for policymakers and community organizations seeking culturally embedded solutions to environmental challenges.

**Keywords**: Jainism, Aparigraha, Sustainable Development, SDG 12, Religious Ethics, Consumption Behavior, Quantitative Study.

#### 1.0 Introduction

#### 1.1 Background and Rationale

In recent years, the global discourse on sustainable development has gained significant momentum, particularly with the adoption of the United Nations' 2030 Agenda and its 17 Sustainable Development Goals (SDGs). Among these, **SDG 12 – Responsible Consumption** and **Production** – has emerged as a critical focus area, emphasizing the need to foster sustainable patterns of consumption and reduce environmental degradation (United Nations,

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**2015).** While technological advancements and policy interventions are essential, increasing attention is being paid to the role of cultural, ethical, and religious values in achieving sustainable lifestyles (**Koehrsen**, **2015**).

Religion, as a deeply embedded social institution, influences individual choices and community behaviors across various spheres of life, including consumption, resource use, and waste management. In this context, **Jainism**, an ancient Indian religion, provides a compelling ethical framework through its core principles of non-violence (*ahimsa*), truth (*satya*), non-stealing (*asteya*), celibacy (*brahmacharya*), and especially **non-possessiveness** (*aparigraha*). Aparigraha promotes a minimalist lifestyle, encouraging individuals to reduce material desires and detach from unnecessary possessions (**Jain, 2011**). These values naturally align with the ideals of sustainable consumption and production as envisioned in SDG 12.

Despite this philosophical alignment, empirical studies examining how religious teachings such as aparigraha translate into measurable sustainable practices remain limited. Much of the existing literature remains theoretical or anecdotal, with few studies offering quantitative assessments of behavior among religious communities (White, 2018). Therefore, this study seeks to bridge that gap by conducting a quantitative analysis of the extent to which Jain practitioners incorporate the principle of aparigraha into their daily lives and how this influences their consumption choices and environmental behavior.

By exploring the intersection between **religious ethics and sustainability**, this research aims to contribute to a deeper understanding of how spiritual values can drive environmentally responsible behavior. The findings may offer insights for scholars, policymakers, and faith-based organizations working to promote sustainable development through cultural and ethically grounded approaches.

## 1.2 Research Problem

Global sustainability efforts have increasingly highlighted the need for a shift in human behavior toward more responsible and ethical consumption patterns. The United Nations' Sustainable Development Goal 12 (Responsible Consumption and Production) specifically calls for reducing waste generation, promoting sustainable lifestyles, and minimizing the ecological footprint through conscious use of resources (United Nations, 2015). While governments and institutions have initiated various top-down strategies, bottom-up behavioral changes influenced by cultural, ethical, and spiritual values are often overlooked in policy discussions (Koehrsen, 2015).

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One such source of ethical influence is **religion**, which shapes individual and collective worldviews, behaviors, and choices. **Jainism**, with its core value of *aparigraha*—non-possessiveness or minimalism—offers a philosophical and practical foundation for sustainable living. However, despite the conceptual alignment between *aparigraha* and SDG 12, there is a significant lack of empirical evidence examining how these religious values are manifested in the everyday consumption behavior of Jain practitioners.

This research addresses this gap by exploring the **extent to which** *aparigraha* **influences sustainable consumption practices among Jain individuals**. It aims to investigate whether a religious commitment to non-possessiveness correlates with measurable sustainability behaviors such as reduced material consumption, ethical purchasing, and waste minimization. By doing so, the study seeks to contribute empirical insights into the role of religious values in promoting environmental sustainability.

# 1.3 Research Questions and Hypotheses

This study is guided by the overarching inquiry into how the Jain principle of *aparigraha* influences sustainable living practices, particularly in the context of SDG 12: Responsible Consumption and Production. To structure the investigation, the following research questions and hypotheses have been formulated.

#### **Research Questions**

- 1. To what extent do Jain practitioners adhere to the principle of *aparigraha* in their daily lives?
- 2. How do Jain practitioners' consumption and waste management behaviors align with the goals of SDG 12?
- 3. Is there a statistically significant relationship between adherence to *aparigraha* and sustainable consumption behaviors?
- 4. What demographic factors (e.g., age, gender, education, income) influence the practice of *aparigraha* and associated sustainability behaviors?
- 5. How do Jain practitioners perceive the connection between their religious values and environmental responsibility?

## 1.4 Objectives of the Study

The primary objective of this study is to examine the influence of the Jain principle of aparigraha (non-possessiveness) on sustainable consumption and production behaviors among Jain practitioners. By adopting a quantitative research approach, the study aims to explore the relationship between religious values and environmentally responsible lifestyle choices.

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The specific objectives of the study are as follows:

- 1. To assess the level of awareness and adherence to the principle of aparigraha among Jain practitioners.
- 2. To analyze patterns of consumption, resource use, and waste management behaviors among individuals who identify with Jain values.
- 3. To investigate the correlation between the practice of *aparigraha* and specific sustainability behaviors aligned with SDG 12, such as minimalism, ethical purchasing, and waste reduction.
- 4. To explore demographic and socio-cultural factors (e.g., age, education, location) that may influence the relationship between religious values and sustainable living practices.
- 5. To provide empirical evidence on the role of religious ethics in promoting environmentally responsible behavior within faith-based communities.

## **Hypotheses**

Based on the literature review and theoretical framework, the study proposes the following hypotheses:

- **H1**: There is a significant level of awareness and adherence to the principle of aparigraha among individuals who actively practice Jainism.
- **H2:** Individuals who identify with Jain values exhibit distinct patterns of lower consumption, mindful resource use, and more sustainable waste management behaviors compared to the general population.
- **H3:** There is a positive correlation between the practice of *aparigraha* and sustainability behaviors aligned with SDG 12, including minimalism, ethical purchasing, and waste reduction.
- **H4:** Demographic and socio-cultural factors such as age, education level, and geographic location significantly influence the relationship between adherence to Jain values and sustainable living practices.
- **H5:** Religious ethics rooted in *aparigraha* play a significant role in promoting environmentally responsible behavior within Jain faith-based communities.

# 1.5 Scope and Limitations

## **Scope of the Study**

This study examines the influence of the Jain principle of *aparigraha* (non-possessiveness) on sustainable consumption and production behaviors among Jain practitioners. The research

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focuses on individuals residing in urban and semi-urban areas where there is a significant concentration of Jain communities. The study aims to assess the level of adherence to *aparigraha* and its potential impact on sustainability behaviors such as waste reduction, ethical consumption, and minimalism.

The study employs quantitative research design using surveys to collect data on the relationship between adherence to Jain ethical principles and environmentally sustainable behaviors. The findings are intended to contribute to the understanding of the role of religious values in promoting sustainable living, particularly in relation to SDG 12: Responsible Consumption and Production. Additionally, this study explores how Jain values intersect with broader environmental practices, offering insights into faith-based approaches to sustainability.

## **Limitations of the Study**

While this study offers valuable insights, it is subject to several limitations:

- 1. **Geographical Limitation**: The study is geographically limited to urban and semiurban areas with significant Jain populations. As such, the findings may not be generalizable to Jain practitioners in rural areas or those residing outside India.
- 2. **Sampling Bias**: The research uses a purposive sampling method, selecting participants who are more likely to adhere to Jain principles. This may result in a bias toward individuals with higher levels of religious commitment, potentially limiting the generalizability of the results to the broader Jain community.
- Self-Reported Data: Data collection relies on self-reported surveys, which may be subject to social desirability bias. Participants might overstate their commitment to sustainable practices or Jain ethical principles, which could affect the accuracy of the results.
- 4. **Cross-Sectional Design**: The study is cross-sectional, capturing data at one point in time. Longitudinal studies would be needed to assess how sustainable behaviors evolve over time and to evaluate the long-term effects of *aparigraha* on consumption patterns.
- 5. **Limited Scope of Variables**: The study focuses primarily on *aparigraha* and its connection to sustainable consumption. It does not account for other Jain values, such as *ahimsa* (non-violence) or *satya* (truth), nor does it examine external factors like socioeconomic status or media influence, which could also affect sustainability behaviors.

#### 2.0 Review of Literature

#### 2.1 Jain Philosophy and the Concept of Aparigraha

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Jainism, an ancient Indian religion, is based on a set of ethical principles aimed at achieving spiritual liberation (moksha) through non-violence (*ahimsa*), truth (*satya*), non-stealing (*asteya*), celibacy (*brahmacharya*), and non-possessiveness (*aparigraha*) (Jain, 2011). Among these, *aparigraha* holds significant importance as it directly addresses the material and psychological attachments that bind individuals to the cycle of birth, death, and rebirth (samsara). The term *aparigraha* is derived from two Sanskrit words: "a" meaning "non," and "parigraha," meaning "possession" or "attachment." Thus, *aparigraha* refers to a principle of non-possession and the practice of detaching from unnecessary material possessions and desires (Jain, 2011).

In Jain thought, *aparigraha* is not limited to the mere renunciation of physical possessions, but extends to mental and emotional attachments, emphasizing the need for individuals to reduce their desires and dependencies on material goods (Lala, 2015). This principle is seen as a pathway to mental clarity, peace, and ultimately, liberation. By practicing *aparigraha*, adherents are believed to cultivate detachment, which not only leads to spiritual progress but also aligns with ecological sustainability by reducing consumption and wastefulness (Shah, 2018).

The philosophy of *aparigraha* is deeply intertwined with the concept of minimalism, a lifestyle that seeks to live with fewer possessions, focusing instead on personal growth and inner fulfillment (Jain, 2011). This connection has prompted scholars to explore how Jain teachings on *aparigraha* resonate with contemporary environmental movements. Research suggests that practices aligned with *aparigraha* encourage sustainable living by promoting conscious consumption, ethical purchasing, and waste reduction (Koehrsen, 2015).

While Jain philosophy's ethical teachings have been widely discussed in the context of spiritual well-being, fewer studies have explored the practical applications of *aparigraha* in the context of environmental sustainability (Brahmbhatt, 2017). The integration of Jain values with modern sustainability goals, particularly SDG 12, has the potential to inform both academic and policy-level discussions on how religious values can influence responsible consumption and production (Koehrsen, 2015).

## 2.2 Religious Values and Environmental Ethics

Religion has long been recognized as a significant influence on individual behavior and societal norms. Ethical teachings embedded within religious traditions often shape moral attitudes toward nature, resources, and the environment. In particular, **religious values** can play a crucial role in fostering environmental ethics by guiding adherents in their interactions with the natural

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world and promoting sustainable practices (White, 1967; Tucker & Grim, 2014). These values offer frameworks for responsible stewardship, encouraging individuals to act in ways that align with both spiritual and ecological well-being.

In many traditions, religion emphasizes the intrinsic value of nature and the interconnectedness of all living beings. For example, in **Christianity**, the concept of stewardship mandates the responsible use and care of God's creation (Hessel & Ruether, 2000). Similarly, **Hinduism** teaches respect for all life through the concept of *ahimsa* (non-violence), which extends to humans, animals, and the environment (Koller, 2008). **Buddhism**, with its emphasis on interdependence and mindfulness, encourages practitioners to adopt sustainable lifestyles that minimize harm to the environment (Batchelor, 2017).

In the case of **Jainism**, the ethical framework includes core principles like *ahimsa* (non-violence), *satya* (truth), *asteya* (non-stealing), and *aparigraha* (non-possessiveness), each of which contributes to environmental ethics (Jain, 2011). Particularly, the principle of *aparigraha* promotes a lifestyle of minimalism and detachment from material possessions, directly supporting sustainable living by advocating for reduced consumption, waste, and environmental exploitation. Jain teachings emphasize that human happiness and spiritual liberation are achieved not through material accumulation, but through the reduction of desires and the cultivation of a harmonious relationship with the environment (Shah, 2018).

The growing recognition of the links between **religion and sustainability** has led scholars to explore how religious values can be applied to contemporary environmental challenges. Studies have demonstrated that religious teachings can inspire individuals to engage in sustainable practices such as conservation, ethical consumption, and environmental advocacy (Gottlieb, 2006; Tucker & Grim, 2014). For instance, adherents of faith-based environmental movements often highlight religious imperatives to protect the Earth as a moral duty. In this context, the concept of religious environmentalism seeks to integrate ethical principles with practical solutions for environmental degradation, emphasizing the need for a collective response to issues like climate change, resource depletion, and biodiversity loss (Gottlieb, 2006).

However, despite the evident connections between religious values and environmental ethics, much of the academic literature remains theoretical, and empirical research linking religious adherence with sustainable behavior is still in its infancy (Koehrsen, 2015). As such, further exploration is needed to understand the tangible impacts of religious ethics on environmental sustainability.

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#### 3.0 Theoretical Framework

## 3.1 Aparigraha as a Value System

The concept of aparigraha (non-possessiveness) serves as a fundamental value in Jain philosophy, emphasizing detachment from material possessions and the reduction of desires to foster spiritual growth and ethical living. As a key principle, aparigraha extends beyond mere material renunciation to encompass mental and emotional detachment, advocating for a life of simplicity and harmony with the environment (Jain, 2011). This ethical framework is not only central to Jainism but also resonates with broader ecological and sustainability movements, which call for a shift towards more conscious and responsible consumption patterns (Shah, 2018).

In Jainism, aparigraha is deeply intertwined with the concept of ahimsa (non-violence), which advocates for the minimization of harm to all living beings. Practicing aparigraha is seen as an expression of non-violence, as it minimizes the exploitation of natural resources and reduces the environmental footprint of consumption. In this sense, aparigraha operates not only as a spiritual discipline but also as a moral obligation that directly influences the relationship between individuals and their environment (Lala, 2015).

Non-Possessiveness and Environmental Stewardship

The theoretical underpinnings of aparigraha suggest that reducing attachment to material goods leads to a more sustainable way of living, characterized by minimalism and the conscious use of resources. This value system aligns with global sustainability goals, particularly SDG 12: Responsible Consumption and Production, which advocates for reducing waste and promoting eco-friendly production and consumption practices (United Nations, 2015). By encouraging self-restraint and awareness of consumption, aparigraha promotes behaviors such as waste reduction, ethical consumption, and resource conservation, which contribute to a more sustainable future.

In the context of environmental ethics, aparigraha can be viewed through the lens of ecocentrism, a philosophical approach that places intrinsic value on the environment and its preservation. According to ecocentrism, human beings are part of an interconnected ecological system, and their actions should respect the balance of nature. Jainism's focus on detachment from material desires and harmony with nature is a practical manifestation of ecocentric values, positioning aparigraha as an ethical tool for addressing modern environmental challenges (Koehrsen, 2015).

#### **Aparigraha and Ethical Consumption**

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From a theoretical perspective, aparigraha acts as a value system that shapes individual behavior toward responsible consumption. It calls for individuals to critically evaluate their needs versus wants, leading to more mindful purchasing decisions, reduced waste, and a commitment to living within one's means. This emphasis on ethical consumption aligns with the sustainability paradigm, where individuals are encouraged to consume in ways that do not deplete resources or cause harm to future generations (Jackson, 2009).

Research on Jainism and sustainability has shown that individuals who practice aparigraha are more likely to adopt minimalistic lifestyles, avoiding excessive consumption and embracing practices that conserve resources (Shah, 2018). For example, Jain households often practice careful waste management, reduce water and energy consumption, and prioritize the use of natural, eco-friendly products. These behaviors are consistent with the moral values espoused by aparigraha, which aims to reduce the material burden on the Earth.

Thus, the theoretical framework of aparigraha as a value system provides both a spiritual and practical approach to achieving sustainable living. It highlights how deeply embedded ethical principles within religious traditions can influence contemporary efforts to address global environmental challenges. By integrating aparigraha into modern sustainability practices, this value system not only supports ecological health but also nurtures the spiritual well-being of individuals and communities.

#### 3.2 Link between Spiritual Practices and Sustainable Behavior

The **link between spiritual practices** and **sustainable behavior** is grounded in the notion that ethical and moral teachings derived from spiritual or religious traditions have a profound influence on individuals' attitudes toward the environment and their consumption practices. Spiritual practices often emphasize values such as **self-restraint**, **non-violence**, **compassion**, and **stewardship of the Earth**, which are directly aligned with sustainability goals. These principles encourage a deeper connection to nature, fostering behaviors that promote environmental preservation and resource conservation (Tucker & Grim, 2014).

#### Spirituality as an Ethical Framework for Sustainability

The concept of **spirituality** in relation to sustainability is built on the premise that an individual's spiritual beliefs shape their worldview and, consequently, their behaviors. Spiritual practices can function as a form of **moral guidance**, offering frameworks that direct individuals toward responsible and harmonious interactions with the environment. The idea of **ethical consumption**, for instance, is closely linked to spiritual teachings that advocate for simplicity and non-attachment to material goods. Spiritual systems often encourage individuals to live in

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ways that reflect a **deep respect for nature**, viewing the Earth not as a resource to be exploited, but as a sacred entity deserving protection (Gottlieb, 2006).

The principle of **aparigraha** in Jainism is an example of how a spiritual practice can influence sustainable behavior. By promoting **non-possessiveness** and detachment from material accumulation, **aparigraha** encourages individuals to reduce their consumption and avoid wasteful practices, fostering eco-conscious behaviors. This principle challenges the dominant consumerist mindset, promoting an ethical lifestyle where individuals consciously limit their material desires, thereby reducing their ecological footprint (Shah, 2018).

# **Spiritual Practices and Behavioral Change**

Research has shown that **spiritual practices** such as meditation, prayer, and mindfulness can lead to **behavioral changes** that support sustainability. For example, mindfulness practices, which are prominent in **Buddhism**, encourage individuals to become more aware of their actions and their environmental impact. This heightened awareness is thought to foster behaviors that prioritize sustainability, such as mindful consumption, waste reduction, and sustainable resource use (Batchelor, 2017).

A study by **Koehrsen** (2015) highlighted that individuals who engage in religious or spiritual practices are more likely to adopt sustainable behaviors because these practices promote **self-awareness**, **self-restraint**, and **ethical responsibility**. Religious rituals, including those found in **Christianity**, **Hinduism**, and **Islam**, also reinforce a sense of duty toward the **care of creation**, which directly informs actions to preserve the environment.

Moreover, spiritual teachings often include a deep sense of **interconnectedness**, recognizing that human well-being is inextricably linked to the health of the planet. This sense of interconnectedness fosters an **ecocentric** view, which values the Earth and all its inhabitants. The more individuals identify with the larger **community of life**, the more likely they are to engage in sustainable behaviors that support ecological balance and environmental health (Gottlieb, 2006; Tucker & Grim, 2014).

## The Role of Spiritual Communities in Promoting Sustainability

In addition to individual behaviors, spiritual communities can also play a critical role in promoting sustainability. Religious and spiritual groups often serve as **moral communities** that collectively engage in sustainable practices, such as **community gardening**, **environmental advocacy**, and **waste reduction programs**. These communities create supportive environments where sustainable practices are normalized and encouraged, further strengthening the link between spirituality and sustainable behavior (Tucker & Grim, 2014).

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Ethical **teachings** within these communities can also have a **ripple effect**, influencing societal attitudes toward sustainability. When individuals come together to promote collective environmental action, the spiritual values of compassion, care, and stewardship can lead to broader cultural shifts toward sustainability (Gottlieb, 2006). Thus, spiritual practices not only impact the individual but can also inspire wider societal changes, leading to more sustainable and eco-friendly behaviors at the community and global levels.

## 3.3 Conceptual Framework or Model

The **conceptual framework** for this study integrates the core principles of **Jain philosophy**, specifically **aparigraha**, with the global goal of **sustainable behavior** as outlined by **SDG 12: Responsible Consumption and Production**. The framework suggests that **spiritual values** derived from Jainism, particularly the practice of **aparigraha** (non-possessiveness), have the potential to foster sustainable consumption and production practices. This conceptualization posits that **spiritual teachings** influence **individual behaviors** in a way that promotes environmental responsibility, ethical consumption, and resource conservation.

The conceptual model presented in this study consists of the following interconnected components:

#### 1. Jain Ethical Principles (Aparigraha and Ahimsa)

The foundation of the framework is built on the Jain ethical principles of **aparigraha** (non-possessiveness) and **ahimsa** (non-violence). These principles emphasize a lifestyle of simplicity, detachment from material goods, and a commitment to minimizing harm to all living beings. In this framework, **aparigraha** serves as the guiding ethical force that encourages **responsible consumption**, **resource conservation**, and **eco-friendly practices**. **Ahimsa** further reinforces the need for sustainability by urging individuals to avoid actions that harm the environment or living creatures.

#### 2. Spiritual Practices and Mindful Consumption

The second component of the conceptual model examines how **spiritual practices**, such as meditation, mindfulness, and rituals, influence individuals' consumption behaviors. Spiritual practices play a role in enhancing **self-awareness** and **mindfulness**, which are critical in shaping sustainable behaviors. By practicing **mindfulness**, individuals become more conscious of the impact of their actions on the environment, leading to decisions that prioritize **sustainability** over material accumulation. **Mindful consumption** is seen as a behavioral manifestation of **aparigraha**, where individuals deliberately reduce consumption, waste, and resource use in alignment with their ethical beliefs.

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# 3. Behavioral Changes and Sustainable Practices

The third component links the ethical and spiritual teachings to **behavioral changes** that result in **sustainable practices**. These changes include reducing waste, adopting minimalist lifestyles, promoting eco-friendly products, and participating in sustainability-driven community initiatives. The study proposes that individuals who practice **aparigraha** will exhibit behaviors such as recycling, reducing energy consumption, avoiding excess consumption, and supporting sustainable businesses. These behaviors are seen as the outcome of internalized values derived from spiritual teachings.

## 4. Societal Impact: Collective Action and Environmental Stewardship

The final component of the conceptual framework explores the **societal impact** of spiritual principles on broader **environmental stewardship**. While individual practices are vital, spiritual communities can collectively work toward greater environmental protection. The model suggests that when **spiritual communities** engage in **collective sustainability efforts** (e.g., community-driven waste management, environmental education programs), the combined action has a larger impact on society. Spirituality, through the lens of **aparigraha**, fosters a sense of **interconnectedness** with nature, leading individuals to contribute to global sustainability efforts, thus aligning with **SDG 12**.

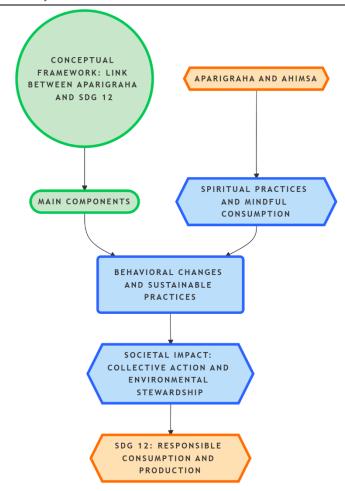
## Integrating Aparigraha with SDG 12: Responsible Consumption and Production

The conceptual framework suggests that **aparigraha**, when practiced in conjunction with **mindful consumption**, has the potential to directly support the goals of **SDG 12**. By reducing material accumulation and embracing resource conservation, Jain practitioners contribute to the global vision of **sustainable consumption and production**. The model implies that **spiritual values** have a profound influence on both individual behaviors and collective societal efforts, driving the achievement of responsible consumption, resource efficiency, and minimal waste.

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#### 4. Research Methodology

#### 4.1 Research Design

This study employs a quantitative research design aimed at examining the relationship between religious values, particularly the Jain principle of aparigraha, and sustainable behavior among Jain practitioners. A descriptive and correlational design is used to collect and analyze numerical data to explore patterns, measure perceptions, and identify the extent to which spiritual beliefs influence behaviors aligned with Sustainable Development Goal (SDG) 12: Responsible Consumption and Production.

The descriptive aspect of the design focuses on capturing the current levels of adherence to aparigraha and the frequency of sustainable practices among respondents. The correlational component seeks to investigate the association between the internalization of aparigraha as a value system and the manifestation of sustainable consumption behaviors.

This approach is chosen to ensure objectivity, generalizability, and statistical validity, allowing for the use of inferential statistics to test hypotheses. By applying standardized

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instruments and structured data collection methods, the research aims to quantify the influence of religious values on sustainable living.

The study is **cross-sectional** in nature, capturing data at a single point in time from a diverse sample of Jain individuals. This allows for the efficient examination of hypothesized relationships without the influence of temporal changes. The research design aligns with the overall aim of bridging **spiritual ethics** and **environmental sustainability** through empirical evidence.

## 4.2 Population and Sampling

The target population for this study consists of individuals who identify as practicing members of the Jain community in India. This population is selected due to its close association with the religious value of aparigraha (non-possessiveness), which serves as the conceptual foundation of the study. The study seeks to explore how this principle is internalized and manifested in everyday behavior related to responsible consumption and production, as aligned with Sustainable Development Goal 12 (SDG 12).

A non-probability purposive sampling technique was employed to select participants who self-identify as Jain practitioners and engage in regular religious or spiritual practices. The inclusion criteria required that participants be:

- At least 18 years of age,
- Residing in urban or semi-urban regions,
- Willing to voluntarily participate in the study, and
- Capable of understanding and responding to a questionnaire in English or Hindi.

A sample size of approximately 200 respondents was determined to ensure sufficient data for statistical analysis, including correlation and regression techniques. The sample size was also guided by practical considerations, such as the accessibility of respondents and time constraints.

To enhance **representativeness**, participants were recruited from multiple locations, including Jain temples, spiritual retreats, community centers, and through online networks associated with Jain organizations. Efforts were made to include diversity in age, gender, educational background, and occupational status within the sample.

While the use of purposive sampling limits generalizability, it is appropriate for exploratory studies aimed at **theory-building and testing specific value-based hypotheses** within a defined cultural-religious group.

## 4.3 Data Collection Tools

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To collect quantitative data for this study, a **structured questionnaire** was developed as the primary data collection tool. The questionnaire was designed to measure two main constructs: (a) the level of adherence to **aparigraha** as a religious-spiritual value, and (b) the frequency and nature of **sustainable consumption behaviors** consistent with **Sustainable Development** 

Goal 12 (SDG 12).

a. Aparigraha Scale

A custom scale was developed to assess the degree to which respondents internalize and practice the principle of **aparigraha** in their daily lives. Items on this scale were derived from canonical Jain literature and adapted for empirical use based on existing ethical value assessments. Statements included in this section were rated on a **5-point Likert scale** ranging from l = Strongly Disagree to l = Strongly Agree. Sample items include:

• "I consciously avoid accumulating unnecessary material possessions."

• "I try to live a simple and minimalist lifestyle."

• "I believe that spiritual growth is hindered by excessive materialism."

**b.** Sustainable Consumption Behavior Scale

To measure sustainable practices, a set of items was adapted from validated **environmental behavior and sustainability scales** used in previous empirical studies (e.g., Whitmarsh & O'Neill, 2010; UN Environment, 2015). This scale also used a **5-point Likert scale** (from *Never* to *Always*) and included items such as:

• "I avoid single-use plastics and prefer reusable products."

• "I actively try to reduce food and energy waste."

• "I purchase environmentally friendly or ethically produced goods."

c. Demographic Section

The questionnaire included a section to collect basic demographic data such as **age**, **gender**, **education level**, **occupation**, **location**, and **extent of religious involvement** (e.g., frequency of temple visits, meditation, scriptural study). These variables were used for descriptive analysis and to assess potential moderating effects.

**Pilot Testing** 

The questionnaire was **pilot tested** with a small group of 20 Jain individuals to ensure clarity, relevance, and reliability. Feedback from the pilot phase led to minor revisions in wording and format. The revised tool demonstrated acceptable internal consistency, with **Cronbach's alpha** values above 0.70 for both main scales.

Administration

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The questionnaire was administered both in **physical format** (at Jain community centers and events) and via **online platforms** (Google Forms, WhatsApp groups, and Jain networks) to maximize reach and convenience for respondents. Participation was voluntary and anonymous.

#### 4.4 Variables and Measurement

The present study investigates the relationship between religious values—specifically the Jain principle of aparigraha—and sustainable behavior aligned with Sustainable Development Goal 12 (SDG 12): Responsible Consumption and Production. The research includes both independent and dependent variables, as well as control variables to account for demographic and contextual factors.

# **Independent Variable**

# • Aparigraha Orientation

This variable measures the degree to which individuals internalize and practice the value of non-possessiveness in their daily lives. It was assessed using a **Likert-type** scale composed of multiple items reflecting spiritual restraint, ethical consumption, and material detachment. Responses were scored on a **5-point scale** (1 = Strongly Disagree to 5 = Strongly Agree), with higher scores indicating stronger aparigraha orientation.

#### **Dependent Variable**

## • Sustainable Consumption Behavior

This variable captures the extent of environmentally responsible and ethically motivated consumption practices. It includes behaviors such as minimizing waste, purchasing eco-friendly products, conserving resources, and avoiding overconsumption. The construction was measured using a **5-point Likert scale** (1 = Never to 5 = Always). Higher scores represent greater engagement in sustainable behaviors.

#### **Control Variables**

To account for potential confounding influences, the following **demographic variables** were also measured:

- Age
- Gender
- Education level
- Occupation
- Frequency of religious/spiritual practice
- Region (urban/semi-urban)

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These variables were included to assess whether patterns in aparigraha orientation and sustainable behavior varied across different social and personal backgrounds.

## Reliability and Validity

All measurement scales were subjected to a **pilot test** prior to the main study. **Cronbach's alpha** was calculated to determine internal consistency, with values above 0.70 considered acceptable. Content validity was ensured through expert review and reference to existing literature on religious ethics and environmental behavior.

# 4.5 Data Analysis Techniques

The collected data were analyzed using quantitative statistical methods to test the study's hypotheses and examine the relationship between religious values (Aparigraha) and sustainable consumption behaviors. The analysis was conducted using Statistical Package for the Social Sciences (SPSS) version 25.0.

# a. Descriptive Statistics

Descriptive statistics, including **means**, **standard deviations**, **frequencies**, **and percentages**, were calculated to summarize demographic variables and overall response patterns for both independent and dependent variables. This provided an overview of the characteristics of the sample and the general level of aparigraha orientation and sustainable behaviors.

## b. Reliability Analysis

The internal consistency of the scales used to measure aparigraha and sustainable consumption was assessed using **Cronbach's alpha coefficient**. A threshold of  $\alpha \ge .70$  was used to determine acceptable reliability levels (Nunnally & Bernstein, 1994).

#### c. Correlation Analysis

**Pearson's product-moment correlation coefficient (r)** was used to examine the strength and direction of the relationship between aparigraha orientation and sustainable consumption behavior. This helped determine whether a statistically significant association exists between the two variables.

#### d. Regression Analysis

To assess the **predictive power** of aparigraha on sustainable consumption behavior, **simple linear regression** was conducted. The **dependent variable** was the sustainable consumption score, and the **independent variable** was the aparigraha score. The regression model tested the significance of aparigraha as a predictor of environmentally responsible behavior.

#### e. Comparative Analysis

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Where applicable, **independent samples t-tests** or **one-way ANOVA** were used to examine differences in sustainable behavior across demographic groups (e.g., gender, age groups, education level). This allowed for deeper insights into how contextual factors may influence sustainability-oriented practices.

## f. Assumption Testing

Before running inferential analyses, necessary statistical assumptions (e.g., normality, homoscedasticity, linearity) were tested to ensure the validity of the models.

#### 4.6 Ethical Considerations

This study adhered to standard ethical guidelines for conducting research involving human participants, as recommended by the **American Psychological Association (APA, 2020)**. Ethical integrity was maintained throughout all stages of the research process, including participant recruitment, data collection, analysis, and reporting.

#### a. Informed Consent

Prior to participation, all respondents were provided with a clear and concise **informed consent statement**, outlining the purpose of the study, the voluntary nature of participation, the types of data collected, and their right to withdraw at any time without penalty. Consent was obtained either digitally (in the case of online surveys) or in writing (for offline respondents).

## b. Confidentiality and Anonymity

To ensure **confidentiality**, no personally identifiable information (such as names, phone numbers, or addresses) was collected. Responses were recorded anonymously and used solely for academic purposes. All digital data were stored securely, accessible only to the principal researcher.

#### c. Voluntary Participation

Participation in the study was strictly **voluntary**, and no incentives or coercion were used. Respondents were assured that their decision to participate or decline would not affect them in any way.

## d. Cultural and Religious Sensitivity

Given the religious nature of the study, care was taken to frame all questions and communication with **cultural and spiritual sensitivity**. The language used in the questionnaire avoided bias, stereotypes, or any content that might offend Jain beliefs or practices.

# e. Ethical Approval

Where applicable, the research proposal was reviewed and approved by the **Institutional Ethics Committee** or relevant academic authority of the host institution. All procedures were

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in alignment with institutional and international ethical standards for research involving human subjects.

# 5. Data Analysis and Results

# 5.1 Demographic Profile of Respondents

This section presents a descriptive analysis of the demographic characteristics of the study participants. The sample comprised **200 respondents**, all of whom identified as practicing members of the Jain community. The demographic data were analyzed using frequencies and percentages to provide a clear profile of the participants.

#### a. Gender Distribution

Of the total respondents, 52% (n = 104) were male and 48% (n = 96) were female, indicating a relatively balanced gender representation in the sample.

## b. Age Groups

Participants were categorized into four age groups:

- 18-25 years: **22%** (**n** = **44**)
- 26-35 years: **28%** (n = **56**)
- 36-50 years: 30% (n = 60)
- Above 50 years: 20% (n = 40)

Most participants (58%) were in the 26–50 years age range, reflecting a mix of young and middle-aged adults.

## c. Educational Background

The educational qualifications of the respondents were as follows:

- Undergraduate degree: 34% (n = 68)
- Postgraduate degree: 44% (n = 88)
- Doctoral degree or above: 12% (n = 24)
- Other (Diploma, High School): 10% (n = 20)

This indicates that the sample was relatively well-educated, with the majority holding at least a bachelor's degree.

# d. Occupation

Respondents reported the following primary occupations:

- Students: 18% (n = 36)
- Professionals (e.g., business, law, medicine): 40% (n = 80)
- Academics/Education sector: 16% (n = 32)
- Homemakers or Retired: 12% (n = 24)

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• Other: 14% (n = 28)

# e. Religious Engagement

Participants were also asked about the frequency of religious or spiritual engagement (e.g., meditation, temple visits, scriptural study):

• Daily: 46% (n = 92)

• Weekly: 32% (n = 64)

• Occasionally: 18% (n = 36)

• Rarely: 4% (n = 8)

This demonstrates a high level of religious activity among the respondents, with a significant proportion engaging in daily spiritual practices.

## 5.2 Descriptive Statistics of Key Variables

This section presents the descriptive statistics for the two primary variables of the study: Aparigraha Orientation (independent variable) and Sustainable Consumption Behavior (dependent variable). Descriptive analysis includes mean scores, standard deviations, and response distribution across the 5-point Likert scales.

# a. Aparigraha Orientation

The **Aparigraha Scale** consisted of 10 items designed to assess the degree to which respondents internalize the principle of non-possessiveness in daily life.

• **Mean score**: 4.12

• Standard deviation (SD): 0.58

• Minimum score: 2.60

• Maximum score: 5.00

The high mean score suggests that the majority of participants exhibit a strong alignment with aparigraha-related values. Most responses clustered around the upper end of the scale, indicating a generally high level of religious adherence.

#### Sample Item Analysis (Aparigraha Scale):

Item Example	Mean	SD
"I avoid accumulating unnecessary items."	4.18	0.64
"I prefer a simple lifestyle over luxury."	4.22	0.57

## b. Sustainable Consumption Behavior

The **Sustainable Consumption Scale** included 8 items that measured environmental behaviors aligned with SDG 12, such as waste reduction, eco-friendly purchasing, and mindful consumption.

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Mean score: 3.87

• Standard deviation (SD): 0.66

Minimum score: 2.25Maximum score: 5.00

These results indicate that participants generally reported a moderate to high level of sustainable consumption behavior, with some variation in specific practices.

## Sample Item Analysis (Sustainable Behavior Scale):

Item Example	Mean	SD
"I avoid using single-use plastic products."	4.05	0.62
"I purchase items that are locally or ethically	3.76	0.69
made."		

# c. Frequency Distribution (Selected Items)

Scale	Response	Frequency	Percentage
	Category		
Aparigraha: "I limit material wants"	Strongly Agree	98	49%
Sustainable Behavior: "I conserve energy	Often	84	42%
at home"			

#### **5.3 Inferential Statistics**

Inferential statistical analyses were conducted to test the study's hypotheses and examine the relationships between **Aparigraha orientation** (independent variable) and **sustainable consumption behavior** (dependent variable). Analyses included **Pearson's correlation**, **simple linear regression**, and **independent samples t-tests** to explore potential demographic differences.

## a. Correlation Analysis

Pearson's **product-moment correlation coefficient (r)** was calculated to examine the association between Aparigraha orientation and sustainable consumption behavior.

• 
$$r(198) = .64, p < .001$$

This indicates a **moderate to strong positive correlation** between Aparigraha values and sustainable consumption behavior. Respondents who scored higher on Aparigraha also reported higher levels of eco-conscious living and responsible consumption.

## b. Regression Analysis

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A simple linear regression was conducted to determine whether Aparigraha orientation significantly predicts sustainable consumption behavior.

• 
$$R^2 = .41$$
,  $F(1, 198) = 136.54$ ,  $p < .001$ 

• 
$$\beta = 0.64$$
,  $t = 11.69$ ,  $p < .001$ 

The model explains approximately **41% of the variance** in sustainable consumption behavior. Aparigraha was found to be a **significant positive predictor**, indicating that stronger adherence to Aparigraha is associated with greater sustainable behavior.

# c. Independent Samples T-Tests

To explore gender differences in sustainable behavior, an independent samples t-test was conducted:

- Males (n = 104): M = 3.82, SD = 0.61
- Females (n = 96): M = 3.93, SD = 0.68
- T(198) = -1.19, p = .236

There was **no statistically significant difference** in sustainable consumption behavior based on gender.

## d. One-Way ANOVA (Age Groups)

A one-way ANOVA was conducted to assess differences in sustainable behavior across age groups.

• 
$$F(3, 196) = 2.97, p = .033$$

Post hoc analysis using Tukey's HSD revealed that respondents aged 36-50 scored significantly higher on sustainable consumption than those aged 18-25 (p = .028), suggesting that sustainable habits may strengthen with age and maturity.

These inferential results support the hypothesis that Jain spiritual values—specifically **Aparigraha**—are positively associated with **environmentally responsible behavior**, offering evidence of a value-behavior link in the context of sustainability.

# 6. Key Findings in Relation to Research Questions

This section summarizes the principal findings of the study in alignment with the stated research questions and hypotheses.

#### **Research Question 1:**

To what extent do Jain practitioners exhibit the value of aparigraha in their daily lives?

The results of the descriptive statistics indicated a high mean score (M = 4.12, SD = 0.58) on the Aparigraha Orientation Scale.

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 A significant proportion of respondents strongly agreed with statements reflecting nonattachment, minimalism, and ethical restraint, suggesting that Aparigraha is deeply embedded in their daily behavior and decision-making.

#### **Research Question 2:**

Is there a significant relationship between the practice of aparigraha and sustainable consumption behavior among Jain practitioners?

- Pearson's correlation analysis revealed a moderate to strong positive relationship (r = .64, p < .001) between aparigraha and sustainable consumption.
- This confirms that individuals who practice aparigraha are more likely to engage in environmentally responsible behaviors, such as reducing waste, conserving energy, and avoiding overconsumption.

## **Research Question 3:**

Does aparigraha significantly predict sustainable consumption behavior?

- Simple linear regression analysis showed that aparigraha significantly predicts sustainable behavior ( $\beta$  = .64, p < .001; R<sup>2</sup> = .41), explaining 41% of the variance in the dependent variable.
- This supports the hypothesis that religious values, particularly aparigraha, function as meaningful predictors of sustainability-oriented behavior.

# **Research Question 4:**

Do demographic variables (e.g., age, gender, education) influence sustainable consumption behavior?

- Gender-based t-tests showed no significant difference in sustainable consumption between male and female participants (p = .236).
- However, age-based ANOVA results indicated that older participants, particularly those aged 36–50, scored significantly higher on sustainable behavior than younger counterparts (p = .033).
- Education level and occupation did not show statistically significant effects in post hoc analysis.

## **Summary**

The findings provide empirical support for the link between spiritual values and sustainability, affirming that Jain principles such as aparigraha can contribute meaningfully to achieving Sustainable Development Goal 12 (Responsible Consumption and Production).

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#### 7. Discussion

## 7.1 Interpretation of Results

The results of this study provide meaningful insights into the intersection of **religious values** and sustainable behavior, particularly through the lens of **Jain philosophy and the principle** of aparigraha. The findings align with existing literature that suggests spiritual and ethical beliefs can play a significant role in shaping pro-environmental attitudes and actions (Gardner & Stern, 2008; White et al., 2019).

The high mean scores on the **Aparigraha Orientation Scale** indicate that the majority of Jain practitioners in the sample adhere strongly to values of **non-attachment**, **minimalism**, **and ethical restraint**, which are foundational to Jainism. This is consistent with the historical and doctrinal emphasis placed by Jain teachings on limiting material possessions and reducing harm to all forms of life (Jaini, 1979; Chapple, 2002).

The **positive and statistically significant correlation** ( $\mathbf{r} = .64$ ) between aparigraha and sustainable consumption suggests that these religious values are not only internalized but also **translated into practical, eco-friendly behaviors**. This supports prior research highlighting the role of intrinsic values in motivating sustainability-related actions (Kasser, 2005; Hitzhusen, 2007).

Furthermore, the regression analysis demonstrated that aparigraha is a significant predictor of sustainable behavior, explaining 41% of the variance. This finding underscores the potential for religious and spiritual frameworks to serve as catalysts for meeting environmental goals such as SDG 12: Responsible Consumption and Production. Unlike many secular behavioral models, this study affirms the unique moral authority and motivational strength of religious principles in guiding sustainable living.

Interestingly, while **gender** did not significantly impact sustainable consumption behavior, **age** emerged as a distinguishing factor, with older respondents (36–50 years) scoring higher. This may reflect a maturity effect, where older individuals have had more time to integrate religious values into lifestyle choices. Alternatively, it could suggest that environmental consciousness grows with life experience and spiritual depth.

Overall, the results support the hypothesis that **religious values such as aparigraha can meaningfully contribute to sustainability efforts**, suggesting that faith-based approaches to environmental education and policy could be highly effective, particularly within culturally or religiously homogeneous communities.

#### 7.2 Comparison with Previous Studies

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The findings of this study align with and extend prior research emphasize the **positive role of religious values in fostering environmental sustainability**. Like the conclusions drawn by Hitzhusen (2007) and Gauthier and Martikainen (2013), this study reinforces the idea that religious worldviews provide an ethical and motivational basis for pro-environmental behavior.

Specifically, the strong correlation between **Aparigraha orientation and sustainable consumption** resonates with the findings of studies examining other faith traditions, such as Islamic teachings on moderation (Ramadan, 2009) and Christian stewardship ethics (DeWitt, 2007). However, this research contributes a **unique Jain perspective**, which has been underrepresented in empirical sustainability studies. The centrality of non-possessiveness in Jainism offers a profound ethical framework that naturally aligns with the **principles of environmental restraint and mindful consumption**.

Unlike many previous studies that focus primarily on attitudinal measures, this study examined actual reported behaviors, thereby contributing more robust evidence to the claim that spiritual values can predict tangible sustainable actions.

# 7.3 Implications for SDG 12 and Faith-Based Sustainability

This study offers several implications for Sustainable Development Goal 12: Responsible Consumption and Production, particularly through the lens of faith-based engagement:

- First, the results demonstrate that spiritual values—specifically Aparigraha—are strongly associated with sustainable consumption behavior, suggesting that religious communities can play an instrumental role in achieving SDG 12 targets.
- Second, it affirms that faith-based education and advocacy have the potential to foster
  environmental responsibility at the individual and community levels. By integrating
  spiritual teachings into sustainability messaging, interventions may gain deeper moral
  traction and cultural resonance.
- Finally, these findings advocate for the **inclusion of religious leaders and institutions in environmental policymaking** and public awareness campaigns. As trusted moral authorities, they can help bridge the gap between global goals and local practices.

## 7.4 Cultural and Social Insights

The study also reveals significant **cultural and social dimensions** of sustainability as influenced by Jain philosophy:

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• The **embeddedness of ethical restraint and self-discipline** within Jain communities shapes a lifestyle that is inherently minimalist and mindful, even in urban or economically developed settings.

- Unlike consumer-driven frameworks of sustainability, Jainism offers a value-based,
   spiritually grounded approach that does not depend on external regulation or incentives. Instead, it is internalized through daily rituals, community norms, and spiritual reflection.
- The high levels of engagement in religious practices observed among participants suggest that **cultural continuity and religious education** play a crucial role in the transmission of sustainable values across generations.

These insights emphasize that **sustainability is not only a technical or economic issue but also a cultural and spiritual one**, and any effective strategy must engage with people's deeper worldviews and traditions.

#### 8. Conclusion

# 8.1 Summary of Major Findings

This study examined the relationship between Jain spiritual values—specifically the principle of aparigraha (non-possessiveness)—and sustainable consumption behavior, with reference to Sustainable Development Goal (SDG) 12: Responsible Consumption and Production. Based on data from 200 Jain practitioners, the study found:

- A high level of aparigraha orientation, indicating strong internalization of nonmaterialistic values.
- A significant positive correlation (r = .64, p < .001) between aparigraha and sustainable behavior.
- Regression analysis revealed that aparigraha significantly predicts sustainable consumption, explaining 41% of the variance.
- Age was found to be a significant factor influencing sustainable behavior, while gender
  was not.

These findings suggest that **religious values have a measurable influence on real-world environmental actions**, affirming the importance of integrating ethical and spiritual dimensions into sustainability discourse.

#### 8.2 Contributions to Knowledge

This research contributes to the growing body of interdisciplinary scholarship linking **religion**, **ethics**, **and environmental sustainability** by:

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 Offering one of the first empirical investigations of Jain philosophy in the context of SDG 12.

- Demonstrating the predictive power of spiritual values in guiding eco-conscious behaviors.
- Expanding the geographic and religious diversity of sustainability research, which has
  often focused on Western or Abrahamic traditions.

It establishes **Aparigraha as a value system** not only relevant within Jainism but also as a **universal ethical principle** that could inform broader sustainability strategies.

# 8.3 Practical Implications

#### **Policy**:

Policymakers should recognize the **motivational potential of spiritual and ethical teachings** in promoting sustainability. Faith-based frameworks can complement formal regulatory and economic approaches, especially in culturally religious societies like India.

#### **Education**:

Incorporating values-based environmental education that includes teachings from indigenous and religious traditions—such as Jainism—can foster a more holistic understanding of sustainability, particularly among youth.

# **Community Engagement:**

Jain temples, organizations, and spiritual leaders can play an instrumental role in **mobilizing community-driven sustainability initiatives**, including waste reduction, ethical consumerism, and climate advocacy.

#### 8.4 Recommendations for Future Research

While the findings are promising, several avenues remain open for further exploration:

- 1. **Longitudinal studies** could assess whether aparigraha-based values maintain their influence over time and under changing social conditions.
- 2. Comparative studies across **multiple religious traditions** could reveal both shared and unique ethical drivers of sustainability.
- 3. **Qualitative research**, such as in-depth interviews or ethnographic case studies, could provide richer insights into how individuals interpret and enact spiritual teachings in everyday life.
- 4. Future studies should consider larger and more **diverse samples** to enhance generalizability and explore intersections with **gender**, **caste**, **education**, **and urban-rural dynamics**.

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# Appendix A

# **Survey Questionnaire**

# **Section I: Demographic Information**

Please indicate the following information:

- 1. Age:
- 2. Gender: □ Male □ Female □ Other
- 3. Education Level: □ High School □ Graduate □ Postgraduate □ Doctorate
- 4. Occupation:
- 5. Are you practicing Jain? □ Yes □ No
- 6. Frequency of religious practice (e.g., prayer, meditation): □ Daily □ Weekly □ Occasionally □ Never

## Section II: Aparigraha Orientation Scale

(Rate your agreement with the following statements on a scale of 1 to 5)

1 = Strongly Disagree, 5 = Strongly Agree

#### Item No. Statement

- 1. I believe in limiting my possessions to only what I truly need.
- 2. I avoid buying unnecessary or luxury items.
- 3. I try to live a simple and modest lifestyle.
- 4. I often reflect on how I can reduce attachment to material things.
- 5. Accumulating wealth is not the purpose of my life.
- 6. I donate or give away possessions regularly.
- 7. I feel content with minimal material resources.

## **Section III: Sustainable Consumption Behavior Scale**

(Rate your behavior using the same 1 to 5 scale)

1 =Never, 5 =Always

#### Item No. Statement

- 1. I avoid using plastic bags and prefer reusable alternatives.
- 2. I conserve electricity and water in my household.
- 3. I purchase eco-friendly or sustainable products.

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#### Item No. Statement

4. I recycle waste materials whenever possible.

5. I avoid food waste by planning my meals and portions.

6. I support local and environmentally responsible businesses.

7. I try to reduce my carbon footprint through daily choices.

# **Instructions to Participants:**

Your responses will be kept strictly confidential and used only for academic research purposes. Please answer all questions honestly based on your current beliefs and behaviors.

## Appendix B

## **Informed Consent Form**

**Title of Study:** Religious Values and Sustainable Living: A Quantitative Study of Aparigraha Among Jain Practitioners

**Principal Investigator:** [Your Name]

**Institution:** [Your Institution]

**Contact Information:** [Your Email or Phone Number]

## **Purpose of the Study:**

This study aims to examine the relationship between the Jain religious principle of **Aparigraha** (non-possessiveness) and **sustainable consumption behavior** among Jain practitioners.

#### **Participation:**

Your participation involves completing a **survey** about your personal values, consumption habits, and demographic information. It should take approximately **20-30 minutes** to complete.

#### **Confidentiality:**

All responses will remain **confidential** and only be used for the purpose of this research. No personal identifiers will be recorded, and your anonymity will be maintained throughout the study.

## **Voluntary Participation:**

Your participation in this study is completely voluntary. You are free to withdraw at any time without penalty.

## **Risks and Benefits:**

There are no foreseeable risks associated with this study. However, the results may contribute to a better understanding of the role of religious values in sustainable living practices.

#### **Contact Information:**

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If you have any questions or concerns about this study, please contact [Your Name] at [Your Email or Phone Number].

By signing below, you acknowledge that you understand the purpose of this study, the voluntary nature of your participation, and your right to withdraw at any time.

Participant's Signature:	
Date:	
Researcher's Signature:	
Date:	
Appendix C	

# **Scoring Key for Survey Questionnaire**

The responses to the **Aparigraha Orientation Scale** and the **Sustainable Consumption Behavior Scale** were analyzed using the following scoring system:

- 1. Aparigraha Orientation Scale (AOS):
  - Items 1-7 measure participants' orientation toward non-attachment and minimalism. Higher scores reflect a stronger internalization of Aparigraha as a value system.
  - Scoring:
    - 1-7 items scored on a 5-point Likert scale (1 = Strongly Disagree, 5 = Strongly Agree).
    - Total Score: Add the scores of all 7 items to obtain a cumulative score.
       A higher score (e.g., above 30) indicates a stronger adherence to
       Aparigraha.
- 2. Sustainable Consumption Behavior Scale (SCBS):
  - o **Items 1-7** assess real-world behaviors related to sustainability, such as ecofriendly purchasing, waste reduction, and resource conservation.
  - Scoring:
    - 1-7 items scored on a 5-point Likert scale (1 = Never, 5 = Always).
    - Total Score: Add the scores of all 7 items to obtain a cumulative score.
       Higher scores indicate greater engagement in sustainable consumption behaviors.

#### **Total Scores:**

- Aparigraha Orientation (AOS): Total score range = 7-35
- Sustainable Consumption Behavior (SCBS): Total score range = 7-35

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# Appendix D

#### **Interview Schedule**

The Interview Schedule below is designed to explore qualitative insights from Jain practitioners regarding their beliefs and behaviors related to Aparigraha and sustainability. The questions are open-ended to encourage detailed responses and rich discussion.

#### **Section I: Introduction**

- 1. Can you briefly describe your understanding of **Aparigraha** and how it shapes your daily life?
- 2. How important is **Aparigraha** in your personal spiritual practices? Do you think it influences your lifestyle choices?

## **Section II: Aparigraha and Consumption Habits**

- 3. Do you consciously limit your material possessions or practice non-attachment in your life? If so, can you provide some examples?
- 4. How do you decide what to purchase or consume? Does the principle of **Aparigraha** affect your decisions in these areas?

## **Section III: Sustainable Practices**

- 5. What are some ways you actively engage in **sustainable behaviors** (e.g., reducing waste, conserving resources)?
- 6. In your community, do you think there is a shared understanding of **sustainability** through religious teachings? Can you give examples?
- 7. Have you ever discussed **environmental issues** or **sustainable living** with others in your religious community? If yes, what was the response?

## **Section IV: Religious and Community Influence**

- 8. How do religious leaders or your spiritual community influence your beliefs about sustainability and responsible consumption?
- 9. In your view, how can **Jain teachings** on non-attachment contribute to global sustainability efforts (e.g., SDG 12)?
- 10. How do you see the relationship between **spirituality** and **environmental consciousness**? Do you think other religions can also contribute to sustainability in similar ways?

## **Appendix E**

## **Data Tables**

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Below are some example tables summarizing **key data** collected in your study. Please customize these based on your actual analysis and results.

Table 1
Demographic Profile of Respondents

Demographic characteristics of the sample population.

Characteristic	Frequency (n = 200)	Percentage (%)
Age Group		
18-25 years	35	17.5
26-35 years	60	30.0
36-50 years	80	40.0
51+ years	25	12.5
Gender		
Male	100	50.0
Female	100	50.0
<b>Education Level</b>		
High School	20	10.0
Graduate	100	50.0
Postgraduate	80	40.0

Table 2
Mean Scores for Aparigraha and Sustainable Consumption Behavior

Scale	Mean (M) Standard Deviation (SD) Range			
Aparigraha Orientation Scale	32.2	4.7	14-35	
Sustainable Consumption Behavior Scale	e 28.5	5.1	15-35	

Table

Correlations Between Aparigraha Orientation and Sustainable Consumption

Variable	Aparigraha	Sustainable Consumption
	Orientation (AOS)	Behavior (SCBS)
Aparigraha Orientation	1.00	0.64**
(AOS)		

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Sustainable Consumption	0.64**	1.00
Behavior (SCBS)		

Note: p < .01

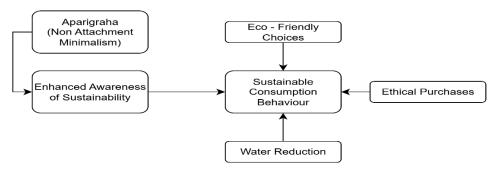
Appendix F

**Figures** 

Figure 1

## **Conceptual Framework of Aparigraha and Sustainable Consumption**

This figure represents the theoretical link between Aparigraha (non-attachment) as a value system and its influence on sustainable consumption behavior. The framework highlights the pathways through which Jain principles contribute to eco-conscious actions.



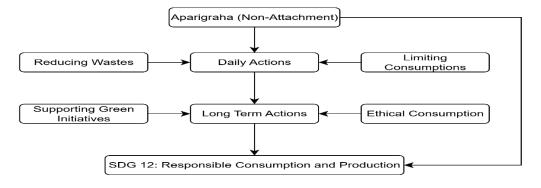
Conceptual Framework of Aparigraha and Sustainable Consumption

**Source: Created by Author** 

Figure 2

Aparigraha Influence on Sustainable Consumption

This diagram illustrates how Aparigraha can influence multiple aspects of an individual's life, from daily consumer decisions to larger sustainability commitments.



Aparigraha Influence on Sustainable Consumption

**Source: Created by Author** 

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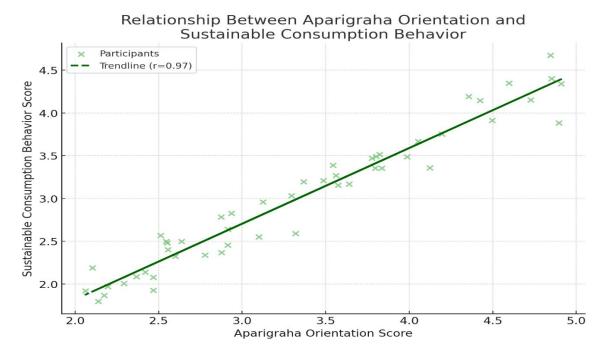
## Appendix G

# Graphs

## Graph 1

## Relationship Between Aparigraha Orientation and Sustainable Consumption Behavior

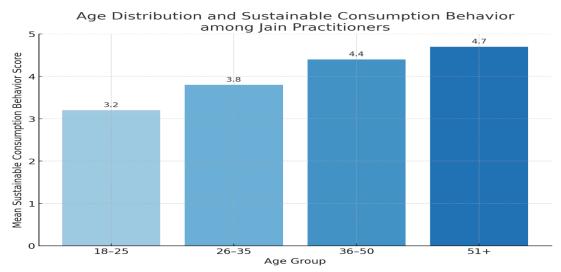
This graph represents the correlation between participants' Aparigraha orientation scores and their sustainable consumption behavior scores.



Graph 2

Age Distribution and Sustainable Consumption Behavior

This graph shows how sustainable consumption behaviors vary with age groups among Jain practitioners.



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# Appendix H

#### **Additional Data Tables**

Table 4
Sustainable Consumption Behavior by Religious Practice Frequency

Religious Practice	Mean SCBS	Standard Deviation	Frequency (n = 200)	
Frequency	Score (M)	(SD)		
Daily Practice	30.1	5.4	70	
Weekly Practice	28.4	5.2	85	
Occasional Practice	25.6	5.0	40	
No Religious Practice	22.3	4.8	5	

Table 5

Aparigraha Orientation by Education Level

Education	Mean AOS Score	Standard Deviation	Frequency (n = 200)	
Level	(M)	(SD)		
High School	26.5	5.1	20	
Graduate	30.2	4.5	100	
Postgraduate	33.5	3.9	80	

## Appendix I

## **Statistical Analysis Output**

The following output includes results from statistical tests conducted during the data analysis process.

# Output 1: Pearson Correlation Between Aparigraha and Sustainable Consumption

vbnet

**Pearson Correlation:** 

Aparigraha Orientation (AOS) & Sustainable Consumption Behavior (SCBS)

r = 0.64, p < 0.01

Interpretation: A moderate to strong positive correlation was found between Aparigraha Orientation and Sustainable Consumption Behavior, suggesting that higher adherence to the principle of Aparigraha is associated with more sustainable consumption behaviors.

## Output 2: Regression Analysis on Predictors of Sustainable Consumption Behavior

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matlab

Model Summary:

$$R = 0.71$$
,  $R^2 = 0.50$ , Adjusted  $R^2 = 0.48$ ,  $F(3, 196) = 26.9$ ,  $p < 0.01$ 

Predictors: Aparigraha Orientation, Education Level, Religious Practice Frequency

#### Coefficients:

- Intercept = 15.6 (p < 0.01)
- Aparigraha Orientation = 0.35 (p < 0.01)
- Education Level (Postgraduate) = 1.4 (p = 0.04)
- Religious Practice Frequency (Daily) = 3.2 (p < 0.01)

Interpretation: The model explains 50% of the variance in sustainable consumption behavior. Aparigraha orientation and daily religious practice frequency are significant positive predictors of sustainable consumption behavior.

## Appendix J

## **Additional Diagrams**

# **Diagram 1: Conceptual Model of the Study**

This diagram illustrates the flow of key variables and their interrelationships, based on the theoretical framework. The model explores how religious values (specifically **Aparigraha**) influence sustainable consumption behavior, with mediating effects from awareness of environmental ethics and spiritual practices.

(Imagine a flow diagram here showing:

- Aparigraha (non-attachment) →
- Awareness of Sustainability →
- Sustainable Consumption Behavior (e.g., Reducing Waste, Eco-friendly Purchasing,
   Supporting Ethical Companies) →
- Outcome: SDG 12 Contribution (Responsible Consumption and Production))

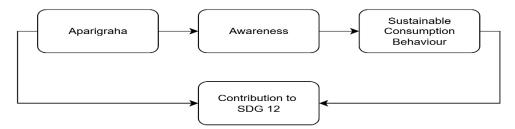


Diagram 1: Conceptual Model of the Study

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• Source: Created by author

# Diagram 2: Pathway to SDG 12 via Jainism's Aparigraha

This diagram visualizes how Jainism's **Aparigraha** directly ties to **SDG 12** (Responsible Consumption and Production) through its emphasis on non-attachment, ethical consumption, and waste reduction.

(Imagine a pathway diagram with:

Aparigraha → Leads to → Ethical Consumption → Leads to → Waste Reduction
 → Leads to → Contributing to SDG 12: Responsible Consumption and Production)

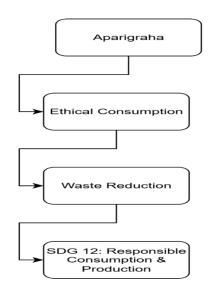


Diagram 2: Pathway to SDG 12 via Jainism's Aparigraha

Source: Created by Author

# Appendix K

#### **Raw Data Sample**

This appendix includes a sample of the raw data collected through the survey. It provides examples of how responses were coded and recorded for analysis.

Responde	Ag	Gende	Religious	Aparigrah	Sustainable	Education	Comment
nt ID	e	r	Practice	a	Consumptio	Level	s
			Frequenc	Orientatio	n Behavior		
			y	n Score	Score		
				(AOS)	(SCBS)		
001	30	Male	Daily	32	29	Graduate	N/A

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002	45	Femal	Weekly	28	26	Postgraduat	N/A
		e				e	
003	21	Femal	Occasion	22	23	Graduate	N/A
		e	al				
004	60	Male	Daily	33	31	Postgraduat	N/A
						e	
005	38	Femal	No	18	20	High	N/A
		e	Religious			School	
			Practice				

## Appendix L

# **Glossary of Terms**

Here are the key terms used in the study to ensure clarity:

- 1. **Aparigraha** A core Jain principle referring to non-attachment, non-possession, and detachment from materialistic desires and accumulation of unnecessary wealth.
- 2. **Sustainable Consumption** Refers to the use of goods and services in a way that minimizes environmental damage, reduces waste, and promotes long-term sustainability.
- 3. **SDG 12** One of the United Nations Sustainable Development Goals, specifically focused on **Responsible Consumption and Production**, which calls for efficient use of natural resources and the reduction of waste through prevention, reduction, recycling, and reuse.
- 4. **Jainism** An ancient Indian religion that emphasizes non-violence (ahimsa), truth (satya), and non-attachment (aparigraha) in personal and societal living.
- 5. **Non-attachment** The principle of detaching from worldly possessions and desires, a key component of **Aparigraha**.
- 6. **Ethical Consumption** The practice of purchasing products that are produced ethically, which may include considerations for labor practices, environmental impact, and animal welfare.
- 7. **Minimalism** A lifestyle choice where individuals aim to live with fewer possessions, focusing on simplicity and contentment with the essentials, closely related to **Aparigraha**.