NYĀYA
(TARKA ŚĀSTRA)

A Short Introduction to the Hindu System of Logic and Debate

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INTRODUCTION TO NYĀYA
(Tarka śāstra)
The School of Logicians

The Nyāya is the discipline of logic, and provides the only sound methodology of philosophical inquiry into the nature of knowledge and the objects of knowledge. It is the means to obtain Right Knowledge (pramāṇa) about the Self and to discover the purpose of life. The only way we can impart our knowledge and experience to others and to elucidate for ourselves their implications for the rest of our lives and also to defend their validity against hostile criticism is by means of logic.

The term Nyāya in Sanskrit signifies "going into a subject," — that is, an analytical investigation of the subject through the process of logical reasoning.

Vatsyāyana, the classic commentator on the Nyāya-Sūtra, defines it as:

"a critical examination of the objects of knowledge by means of the canons of logical proof."

The Nyāya is also called Tarka-vidya, "science of reasoning," or Vāda-vidya "science of argument."

The founder of the Nyāya was Gautama (Gotama) who is frequently-referred to in the literature as Akṣa-pāda, "Eye-footed," and Dīrga-tapas, "Long-penance."

In ancient India it was customary to give people nicknames which gave a descriptive characterisation of the individual. Gautama probably received these names from his habit of performing long penances during his periods of study and from the fact that he was customarily seen with his eyes directed toward his feet when walking, (probably due to his deep reflection while strolling).

There is considerable argument about the exact date of Gautama but authorities place him about 550 BC., making him almost a contemporary of Buddha. According to tradition, Gautama, the founder of the Nyāya, was born in the village of Gautama-sthāna, and each year a fair is held in this village in his honour on the 9th day of the lunar month of Chaitra (March-April). The village is located 28 miles north east of Darbhaṅga.

Before Gautama, the principles of the Nyāya existed as an unsorted body of philosophical thought concerning things that can be known and on the means of acquiring such knowledge. Gautama merely formulated the generally accepted principles of the time.

THE PROBLEM

All systems of Indian philosophy begin with the problem of suffering – duḥkha.
The goal of the Nyāya is to enable us to attain the highest goal of life which is Liberation from duḥkha and the attendant cycle of births and deaths — mokṣa, variously known as ‘release’, ‘freedom’, ‘emancipation’ or nirvāṇa – the state of non-return to birth/death.

According to nyāyikas the world presents itself to us as a chain of consequences which needs to be broken in order to attain Liberation from suffering.

Misapprehension [ajñāna] — the inability to see things as they really are. We see things as we want to see them. We superimpose false ideas and concepts upon reality — we identify the Self with the mind/body complex.

Distorted views — this refers to our tendency for ego-centrism, and the creation of a vast network of false identities and ideologies in order to bolster and maintain the ego-notions we hold dear. We identify through our genders, our race, class, tribes, family, nation, hobbies, ideologies etc. Each of these roles has three dynamic forces of attraction – to those things, places, people etc. that confirm our identity, and aversion for anything, person or idea that challenges who we think we are. And these two forces contribute to our delusion – the psycho-drama which we inhabit.

Karma — we then perform activity in accordance with this false view of ourselves and the world; designed to perpetuate our transient selves and to give some meaning to our lives. All actions involving other beings have three possible outcomes; negative (cause suffering), positive (cause joy), or neutral. Negative and positive acts result in consequences which are experienced either now or later.

Rebirth — in order to actualise the karma that we have created for good or bad.

Suffering — dis-ease, dissatisfaction, unhappiness, stress, depression etc.

THE SOLUTION

❖ The way to break this chain is to obtain insight and wisdom (jñāna).
❖ Wisdom dissolves the delusive identification of the Self with the mind-body complex.
❖ The doṣas (distorted views) causing us to like and dislike a thing will no longer exist. When this disappears, there will no longer be any desire which is the stimulus for all goal orientated activity.
Cessation from action will break the eternal bond of Karma which will then free us from rebirth; the cause of all sorrow and suffering, and enable us to achieve the supreme end of life [mokṣa].

This goal can be attained by thoroughly studying and understanding the four topics presented in the Nyāya sūtras, namely:

1. The thing to be avoided (i.e., duḥkha)
2. Its cause (i.e., desire, attachment and ignorance)
3. Its solution i.e. absolute avoidance
4. The means of such avoidance (i.e., true knowledge of things as they really are)

The Nyāya examines the logic and coherence of philosophical or religious statements, and by comparing such statements with other widely-held beliefs about life, assess the appropriateness of accepting them as true.

What is rational? — The rational process is one in which conclusion are drawn from premises by a sequel of cognitive steps which can be followed, verified, and which others (provided they understand the meaning of the words used) would accept as being true — true for everyone, not just for one particular individual.

The study of Nyāya enables us to discern the true from the false, and ensures the avoidance of false teachings and beliefs while knowledge matures into the dawning of insight and enlightenment.

Today, as was the case centuries ago we are confronted by many gurus with many teachings, many different social and political ideologies all competing with each other.

The conflicting doctrines and ideologies of each new sect and teacher raises doubts as to which is the right path. The spiritual aspirant is confronted with the same problem of trying to discern the true from the false.

The teachings of the Nyāya System are intended to give us a rational basis for investigating and knowing the Truth.

The Nyāya deals with critical inquiry. It explores all beliefs – traditional and modern and argues vigorously against all superstition and prejudiced and irrational beliefs.

Wherever there is constructive thinking directed at acquiring real understanding there is a need for Logic.

This desire for seeking truth is innate in human nature and logic enables us to accomplish constructive rational thinking.

The purpose of logic is the realisation of the Self by providing the means of studying, listening, reflecting and judging. This culminates in the removal of doubt and leads to mature wisdom, or to confirm that which has been passed down through tradition.

It is only by a thorough examination of the sources and expressions can Truth be ascertained. Therefore, all knowledge and traditional teaching offered to us, as well as our personal experiences and ideas must be submitted to critical inquiry.

The chief concern of the Nyāya methodology is the means of knowing and not the nature of knowledge.
- It investigates the objects of our present perception, not their origination.
- It lays down the rules of syllogistic reasoning for the purpose of examining the objects of perceptions.
- It is the operative cause of Right knowledge and classifies the different ways in which knowledge is acquired.

THE METHODOLOGY

The logical method of ascertaining the Truth is through the application of the 16 categories of Logic, called Padārthas or topics, these are:

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The first two are the most important.
The first nine deal more strictly with logic, while the last seven have the function of preventing and mitigating error.
The process of Nyāya consists of three stages:—

Statement → definition → discussion
1. Clarification of the topic that is being discussed. Read or listen to the question and identify what the issue actually is.

2. Ask for definitions of the key terms – to make sure that you are both talking about the same thing. Not everyone understands terms in the same way. A person may use a term incorrectly or out of place or means by it something else.

3. Once the topic and terms have been defined and clarified one may then engage in the debate or argument.

Sanskrit is a fixed language in that all the terms are clearly defined. But each and every word has multiple meanings and thus confusion can arise about which meaning is intended.

e.g. ābja literally means “born of water” and can refer to either a fish, a conch shell or a lotus – depending on the context.

Words thus have literal meanings and figurative meanings. Modern English is a rapidly evolving language with new words and phrases being created every day. Many words are created for technical usage in describing new discoveries and phenomena, and many words are either invented or deployed to produce an emotional affect rather than to accurately describe a phenomenon.

e.g. The term “Islamophobia” was invented at a Muslim Brotherhood workshop in order to pathologize any objection to Islam and to shut down debate and demonise opponents.

Islamophobia was modelled on the concept of “homophobia” which is an irrational fear of homosexuals which leads to physical violence, verbal abuse and discrimination against them. Phobia is an irrational fear of something and is a psychological disorder.

Now the difference between these two concepts – homosexuals are not an organised group of people with doctrines of holy war against heterosexuals. There is no homosexual agenda to spread their sexual preference and to establish a world-wide empire of homosexuality. It is simply an inborn sexual orientation which cannot be changed and involves the private actions of two people.

Islam on the other hand does have an organization, lobby groups, and conquest agenda. Islam has a history of 1400 years of jihad and has a proven record of violence and murder in the name of Islam. Although the vast majority of Muslims are good and law abide citizens it’s the fanatics that one must fear. And these fanatics are truly capable and more than willing to murder to redress assumed or imagined wrongs – so is a fear of them “irrational”?

Other terms which are socio-political buzz words and used for their emotional valency are: equality, diversity, inclusivity, multiculturalism, sensitivity etc.

If you don’t agree with your opponent or choose not to debate and want to shut him down you label him a Fascist or neo-Nazi or alt-right winger, racist, sexist, misogynist or some such epithet which doesn’t actually describe him but simply tarnishes and demonizes him.
1. THE MEANS OF VALID KNOWLEDGE  [Pramāṇa]

Definition of Valid Knowledge (pramāṇa)
yathāvasthita vyavahārāṇuṣuṇa jñānam pramāṇa
Valid (Right) knowledge is that which reveals a thing as it actually is and is applicable to daily life.

Knowledge is said to be true when there is –
- Coherence
- Correspondence
- Consequence or Utility

Coherence — The statement must be logical and consistent.
Correspondence — The knowledge must correspond to the actual nature of the object as it is. (tadvati-tat-prakāraka)
Consequence — Utility — our practical activities in relation to the object are successful. (pravṛtti-samārthya).

In other words we can do something with it — it has a practical application and utility.

Valid knowledge (pramāṇa) corresponds to the thing as it really is, and leads to successful utilisation thereof.

False knowledge does not correspond to reality and any activity directed thereby results in failure and disappointment.

N.B. ‘Right’ or ‘valid’ knowledge in the Indian context is somewhat individualized — for example; knowledge of quantum particles is useful for a scientist engaged in that type of research but not useful for the common person, as nothing can be done with this knowledge — it may certainly be true but it is not valid in terms of practical outcomes of daily life.

It may be possible to count the number of grains of sand on a beach and this may have some scientific application, but the knowledge, albeit true is unusable for all practical purposes and therefore said to be “invalid” or more properly “irrelevant”.

According to Nyāya, there are four means whereby we obtain data/information:

1. Empirical knowledge, Sense perception/experience [pratyakṣa]
2. Discursive reasoning, inference [anumāna]
3. Analogy [upamāna]
4. Verbal testimony of a trustworthy source. [śabda]
Each school of Indian thought has its own theory of the Means to obtain Right knowledge.

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<th>Means of Right Knowledge</th>
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<td>Naiyāyika</td>
<td>perception ([pratyakṣa]), inference ([anumāna]) comparison ([upamāna]) verbal testimony ([śabda])</td>
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<td>Prābhākaras</td>
<td>perception ([pratyakṣa]), inference ([anumāna]) comparison ([upamāna]) verbal testimony ([śabda]) presumption ([artha) (patti]), non-existence ([abhāva])</td>
</tr>
<tr>
<td>Bhāṭtas &amp; Vedāntins</td>
<td>perception ([pratyakṣa]), inference ([anumāna]) comparison ([upamāna]) verbal testimony ([śabda]) presumption ([artha) (patti]), non-existence ([abhāva]) probability ([sambhava]) and tradition ([aithiḥya])</td>
</tr>
<tr>
<td>Paurāṇikas.</td>
<td>perception ([pratyakṣa]), inference ([anumāna]) comparison ([upamāna]) verbal testimony ([śabda]) presumption ([artha) (patti]), non-existence ([abhāva]) probability ([sambhava]) and tradition ([aithiḥya])</td>
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- **Presumption** \([artha\) \(patti]\) — is the deduction of one thing from the assertion of another thing, e.g., from the assertion that — 'unless there is a cloud, there is no rain,' we presume that — 'there is rain, if there is cloud.'

- **Non-existence** \([abhāva]\) — is the deduction of the existence of one of two contradictory things from the non-existence of the other; e.g., the absence of the sun establishes the presence of the stars.

- **Probability** \([sambhava]\) — consists in assuming the existence of a thing from that of another thing in which it is included. e.g., The presence of a car indicates the probability of a driver.

- **Tradition** \([aithiḥya]\) — received knowledge without any verification of the source from which it first originated.

According to Nyāya these four additional means: presumption, non-existence and probability are included in **inference**, and tradition is included in Verbal Testimony. They are not considered as independent means of right knowledge because they do not form a separate category, and there is no need to consider them separately.
1:1 Perception (pratyakṣa)

The knowledge which is obtained from the contact of a sense organ with its object, and which is determinate, unnamed and consistent.

Sense perception is of two kinds:-

1. Indeterminate (nir-vikalpaka) or abstract — general, non-specific.
2. Determinate (sa-vikalpaka) or concrete — specific.

"Indeterminate" knowledge is vague and non-specific — i.e. not being able to tell the difference between smoke or dust seen at a distance. Or not being able to distinguish between a snake and a rope in dim light.

“Determinate” knowledge is that which is clear and differentiated from other things.

The "unnamed" brings to our attention the fact that the name of an object has no connection with the knowledge of it derived through our direct perception. We know the object but may not know the name of the object.

The "consistent" means that we can actualise the knowledge.

i.e. The perception of water in a mirage which is an illusion is inconsistent with what we know and can use.

Perceptual knowledge must be real, actual, suitable, specific, particular and not vague, visionary or general.

1:2 Inference (Anumāṇa)

That knowledge which is deduced from prior perception.

Anumāṇa is based upon a well-known or observed connection (concomitance) between 2 things (cause and effect). e.g. clouds + rain, rain + harvest, smoke + fire, insult + anger, love + attachment, etc.

There are 3 types of anumāṇa or inference;—

1. It may be a priori, — from cause to effect; (pūrvavat)
   e.g. on seeing clouds, one infers that it is going to rain;

2. or it may be a posteriori, — from effect to cause; (śeṣavat)
   e.g. on seeing a river swollen, one infers that there has been rain fall.

3. It may also be what is termed 'commonly seen,' (samānyatodṛṣṭa) which is knowledge of one thing derived from the perception of another thing with which it is commonly seen;
   e.g. on seeing rain, one infers that there are clouds.

Another example of this sort is the movement of the moon which is inferred on the basis of its changing position in the sky, although the movement of the moon is not perceived directly by the senses.

See para 7 for a more detailed discussion of this important topic.
1:3 **Analogy (Upamāna)**

Knowledge of a thing derived from its similarity to another thing already well known.

For example, one is told that a water buffalo resembles a big black cow. One then travels to a place where the water buffalo lives, and on seeing an animal resembling a big black cow, one concludes that it must be a water-buffalo.

Analogy has been regarded in Nyāya as an independent means of Right Knowledge because it brings about a right cognition that cannot be achieved through either sense-perception or inference.

1:4 **Verbal Testimony (śabda/ āgama/āpta-vākyya)**

The instructive assertion of a reliable person (āpta), that is, one who is possessed of true knowledge and is truthful.

This instruction may be about perceptible things or about intangible realities.

The first can be verified, but one must depend upon inference (anumāna) to ascertain the truth of the latter.

The “reliable” person (āpta) must be someone who is:

- Free from prejudices or bias
- Has no self-interest in the outcomes of the information.
- Is recognised by other authorities as trustworthy

For example, the ‘scientists’ who provide a tobacco company with ‘evidence’ that tobacco is not injurious to health are not reliable persons, because they are being funded by the tobacco company and their results are favourable to a product which has been proven beyond reasonable doubt to be harmful to human health and the majority of their colleagues denounce them.

- **Perception** is concerned chiefly with the present;
- **Inference** deals with the past, present, and future;
- **Comparison** is an instrument of perception, enabling us to know a named object.
- **Verbal testimony** reveals knowledge about things which we cannot know by ourselves.
- It is by means of these four sources of right knowledge that the goals of humankind are accomplished.
2. THE TOPICS OF RIGHT KNOWLEDGE  [Prameya]

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<th>[ātman] Self</th>
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<td>[artha] Experiences</td>
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<tr>
<td>Intelligence [buddhi]</td>
<td>[manas] Intellect</td>
</tr>
<tr>
<td>Activity [pravṛtti]</td>
<td>[doṣa] Imbalances</td>
</tr>
<tr>
<td>Consequence [phala]</td>
<td>[duḥkha] Suffering</td>
</tr>
<tr>
<td>Re-birth [pratyabhāva]</td>
<td>[apavarga] Liberation</td>
</tr>
</tbody>
</table>

There are many things that might be regarded as topics of right knowledge, but these 12 are especially significant because the true knowledge about them will dispel all delusions and lead to freedom from suffering; while false knowledge concerning these topics perpetuates rebirth and suffering.

Nyāya only establishes these principles on a rational basis but does not attempt to dilate upon them.

Nyāya does not attempt to explain all that is known about these several topics, that is left for the more speculative systems of philosophy.

2:1. The Self (ātman).

The presence of the following 6 factors indicate the presence of an ātma or Self.

- knowledge (jñāna)
- striving (prayatna)
- attraction (rāga)
- aversion (dveṣa)
- pleasure (sukha)
- pain (duḥkha)

- These are experiences which are common to all sentient beings.
- There is obviously a subject that experiences them, and that subject is called a Self or ātman or jīvātman
- Since the ātman is one of the intangible realities it cannot be apprehended through the senses; the Self is self-evident to all of us, none of us doubt our own existence.
- The ātman is the subject of these phenomena and is something distinct from the body and mind. But it cannot be demonstrated by sense-perception as it is the Subject.

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1 Ātman is to be distinguished from the Judeo-Christian notion of the “soul” which while being a spiritual essence and thus akin to the concept of ātman, is available only to human beings. Ātman is inclusive of all sentient beings.

2 The Buddhists hold with the doctrine of anātma – or non-Self. They say that an ātman cannot be found in the mind-body complex. The Nyāyikas ask “who is it that is searching for the ātman?”
It’s existence is established through anumāna or inference and from śabda — scriptural testimony.

2:2. The Body (śarīra)

The body is that which is the locus of motion (ceṣṭa), of the senses (indriyas) and of their effects/experiences (arthas) of pleasure and pain.

- The body is the field of the ātman’s experiences as it strives to attain what is pleasurable and avoid what is un-pleasurable.
- All these activities are actualised through the 10 senses, the instruments through which the ātman receives stimuli from the external world and through which it reacts to those stimuli.
- The receptors of pleasure and pain lie within the brain which mediates the experiences thereof. The śarīra includes both the physical body the brain and hence is usually referred to as the mind/body complex.

2:3. The Senses & 2:4. Their Experiences

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<th>Elements (Bhūtas)</th>
<th>Experiences (Arthas)</th>
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<td>Earth — (prthivi)</td>
<td>odour — (gandha)</td>
</tr>
<tr>
<td>taste — (rasana)</td>
<td>water — (apas),</td>
<td>flavour — (rasa)</td>
</tr>
<tr>
<td>vision — (cakṣus)</td>
<td>fire — (tejas)</td>
<td>colour — (rūpa)</td>
</tr>
<tr>
<td>touch — (tvak)</td>
<td>air — (vāyu)</td>
<td>sensation — (sparśa)</td>
</tr>
<tr>
<td>hearing — (śrottra)</td>
<td>ether — (ākāśa)</td>
<td>sound — (śabda)</td>
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</tbody>
</table>

The senses and their objects provide five varieties of perception yielding special kinds of knowledge according to the objects which they reveal.

There are six categories which constitute “the field” of the senses these are:—

- **Substance** — is defined as that which is the material cause or constituent cause of a thing, or that which is the substratum of “qualities”. According to Nyāya, there are 9 substances: —

  1. earth (prthivi)
  2. water (ap)
  3. light (tejas)
  4. air (vāyu)
  5. dimension (dig)
  6. space (ākāśa)
  7. time (kāla)
  8. Self (ātman)
  9. Mind (manas)
Quality — that which has general characteristics, or, the general attributes of a substance. All the afore mentioned substances have qualities. These are 24 in number and are:— colour, taste, odour, touch, number, dimension, separateness, conjunction & disjunction, nearness & remoteness (both space and time), heaviness, fluidity, viscosity (smoothness of water), sound, knowledge, pleasure (gratification), suffering, desire (attachment), aversion, effort, merit & demerit and faculty (velocity, impression and elasticity).

Actions — upwards, downwards, horizontal movement, circular, contracting and expanding.

Generality — all the known objects although different from one another are still substance (dravya). Their being substance is the higher generalization. But these objects can be further divided into different classes, each class differing from the others but having an individual or lower generality.

Individuality — all matter is composed of atoms and each atom is a unit, therefore there are an infinite number of individual units.

Inherence.— this category refers to the intimate relationship that exists between a substance and its attributes or qualities, between atoms and their compounds, between the whole and its parts, between substance and its modifications.

Non-existence — this is a category which is included by some teachers of Nyāya

2:5. Intelligence; [Buddhi]

The ability to form ideas and general notions, to retain conceptions and to be able to discern, judge, comprehend, apprehend, and understand the meaning of right knowledge.

It is that mental power which enables one to reflect upon the teachings and to contemplate the Self.

2:6. Mind (Manas)

The capacity for reflection, inference, testimony, doubt, humour, dream, cognition, conjecture, memory, desire, and feeling of pleasure and pain.

In contrast with the faculty of intelligence; the intellect (buddhi) seeks factual knowledge which is external and worldly, while the Mind (manas) aims at internal knowledge – wisdom which is spiritual.3

2:7. Extrovert Activity (Pravṛtti)

That which sets the mind, body, and voice in motion, for good or bad.

3 N.B. the Nyāya concept of buddhi and manas is different to that taught by Saṅkhya and accepted by Vedānta
It is the effect of these extroverted actions, stimulated by craving (tṛṣṇa) arising from false knowledge (avidya) that holds one in bondage (bandhana) to the cycle of suffering and transmigration (samsāra).

2:8. Distorted Views (Doṣa) — The initiating causes of all action.

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<th>Doṣa</th>
<th>Manifestation</th>
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<td>Attraction [rāga]</td>
<td>lust, greed, craving, selfishness, longing, and covetousness;</td>
</tr>
<tr>
<td>Aversion [dveṣa]</td>
<td>anger, envy, jealousy, and implacability</td>
</tr>
<tr>
<td>Delusion [abhiniveṣa]</td>
<td>Clutching, clinging, grasping, attachment, immersion in one’s own psycho-drama</td>
</tr>
</tbody>
</table>

- ▪ The mark of attraction is attachment;
- ▪ The mark of aversion, is the lack of forbearance;
- ▪ The mark of delusion, is misapprehension.

Attraction and aversion are two polarities which in combination create delusion i.e. entrenched identification with the mind/body complex and its experiences and further immersion in samsāra.

Delusion gives rise to further attraction and aversion, which makes one forget that there is nothing in actual fact which is psychologically agreeable or disagreeable to the ātman; therefore, there is no reason to like or dislike objects. Objects themselves do not give rise to pleasure of pain, it is our attitude towards them, the value that we give them, that is the cause of our experience of subjective pleasure and pain. (Here we are not talking about physical pleasure and pain of an objective nature like hot and cold and pain of injury etc.)

The reason for the appearance of the dosas is due to the incapacity to distinguish the part from the whole, that is, the real from the unreal.

e.g., the beautiful body provokes lust, while the sight of faeces repels. And thus it is with everything throughout nature; there is the twofold aspect, the real and the unreal. The real is things as they just are, the unreal is our value projections onto them. Because of this false conception of the true nature of things, desires arise which in turn, stimulate us to action.

Here it must be remembered that the hatred of pain is none the less hatred; and until all such reactions are removed by true knowledge, one will remain attached to the illusory world of name [nāma — mind] and form [rūpa — body]. Self-realisation [ātma-bodha] is acquired by constant study and reflection on the Dharma.

In this way wisdom can be matured until all doubt has been removed, and the mind will then awaken to the latent potential lying within.

We are all in essence already enlightened beings — we only don’t know it yet!

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4 Like many Sanskrit terms doṣa has many meanings like disorder, defect, fault, imbalance, distortion etc.
2:9. Consequence (*phala*)

Consequence is the outcome of activity.

Every activity (*kriya*) has an outcome which may take the form of either pleasure (*sukha*) or pain (*duḥkha*), depending upon the nature of the action done.

It is also twofold in that it gives pleasure or pain to another being or gives pleasure of pain to the actor.

The effect is also of two kinds; that which appears immediately as seen in practical projects, or that which appears after a lapse of time as seen in the planting of seed by a farmer.

The same principles operate in the ethical realm. The fruit of right conduct (*karma-phala*) done in previous lives and currently in this world may appear as companionship (*sahatva*), progeny (*prajā*) and wealth (*vittam*), which are the three sources of worldly joy.

2:10. Suffering (*duḥkha*)

An impediment that hinders Self-actualisation.

- The body (and everything in life) is impermanent (*aniyta*) unstable (*asthiram*) and thus said to be the abode of suffering (*duḥkha-ālaya*);
- The senses are the instruments whereby we experience suffering,
- The intellect is the agent of suffering (the ājīva or Self is the subject);
- Birth, then, is association with suffering (*duḥkha-sāmyoga*); therefore, life is a passing experience of sorrow and suffering.

Pleasure is but an interval in this process, a mere distraction, for all pleasures are attended with non-fulfilment or non-perpetuation which produces constant low-level anxiety. In other words, the default human condition is dissatisfaction because everything is impermanent, unstable and unsubstantial. It can, therefore, be said that one who is addicted to the pursuit of pleasure is in reality given to the pursuit of pain, for there is no pleasure, in the attainment and enjoyment of which, pain in some form or other is not present.

According to Vedanta Desikan, all forms of material pleasure and happiness and all material goals have seven defects known as *Sapta-dosha* these are:—

1. *alpa* — their end results are trivial
2. *asthira* — they are transient and impermanent,
3. *asukara* — not easily obtained, they require much effort and are time consuming.
4. *asukhāvasāna* — ultimately ending in grief and disappointments.
5. *dukhānvita* — accompanied by disappointments and supported only by struggle.
6. *anucitam* — incompatible with our essential being.

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5 Gita 8:15
7. *abhimāna-mūla* — they're based upon a false sense of self and lead to further perpetuation of this delusional sense of identity.

### 2:11. Rebirth (*pratyabhāva*)

The re-embodiment of the Self (*jīva*) in another physical form after death.

Birth consists of the connection of the *jīvātman* with a new body and mind complex. Therefore, birth is not the production of a new circumstance, but only re-association; while death is not the destruction of anything, but only separation. To deny this principle would be to negate the moral law of the universe and promote antinomianism. It would also render meaningless all moral instruction of enlightened beings and all the Shastras.

### 2:12. Liberation (*apavarga*)

The absolute freedom from suffering.

Only the *ātman* which is liberated from the body, sense-organs and intellect is freed from *duḥkha*.

When the mind is awakened to the true nature of things by means of the cultivation of Right Knowledge, *duḥkha* will fade away as the darkness of the night before the rising sun. The distorted views (*doṣas*) will dissipate, and there will be no longer any incentive to motivated action i.e. action done with a desire for rewards, which, in turn, will free the Self from future rebirths.

The śāstras teach that the following 4 things must be investigated and known by the discerning aspirant:

1. that rebirth, karmic consequences, and suffering are the things to be known;
2. that motivated action and the distorted views are to be avoided;
3. that Liberation from suffering is the goal to be pursued; and
4. that knowledge of Truth is the means of its attainment.

It is by constantly reflecting on these teachings that true knowledge arises.

#### Development of Right Knowledge

Right Knowledge is developed by;

1. Self-restraint or discipline (*dama*)
2. Holding the mind steadfast and focused upon the *ātman* by sustained effort, maintaining a state of tranquillity (*sama*).

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6 The three goals of human life or the tripod of human happiness is *Dharma* – an ethical job and life-style, *Artha* – adequate financial gain and *Kāma* – ethical means of enjoyment of material pleasures — these three are known as “trivarga” and Liberation is known as “apavarga” – together they constitute the four Human Goals or *purusārthas*. 

The motivating force to develop right knowledge is a strong desire to know the Truth about who we are, what we’re doing here and how do we act so as to decrease our suffering. By applying discursive reasoning and self-inquiry (ātma-vivāra) and by study and the habitual cultivation of wisdom, combined with sustained meditation practice, one learns to rest within the Self, and enlightenment dawns.

3. **DOUBT** (*samśaya*)

A conflicting judgment about the precise character of an object, arising from (1) the recognition in it of properties common to many objects, or (2) of properties not common to any of the objects, (3) from conflicting testimony, and from (4) irregularity of perception and non-perception.

Doubt must not be confused with error, which is false knowledge. Doubt is incomplete knowledge which serves as the incentive for further investigation — it is therefore a very positive and desirable quality to have.

False knowledge/error may produce an erroneous conviction which sedates the mind by removing all desire for further knowledge or even entertaining viable alternatives.

*Error* is defined as “that knowledge which does not lead to successful action”. For example, it is impossible to fulfil the expectations created by hallucinations. In other words, the ideal world of thought must correspond to the outer reality in order to be considered true.

The rules and methodology of Nyāya are to be applied when doubt has arisen, and it becomes necessary, therefore, to examine reality for confirmation or clarification of the truth.

There are 4 kinds of doubt:-

1. **Perception of common properties or failure to perceive the difference**
   
   e.g. in the dark a post may be mistaken for a person, or a coiled rope mistaken for a snake.

2. **Conflicting testimony of witnesses or news reports, or differing opinions on the same subject by two or more people.**

3. **Irregularity of perception;**
   
   e.g. being unable to determine whether water is perceived when it is seen in a pond where it actually exists, or when it is seen in a mirage where it really does not exist.
   
   e.g. Hearing the rustle of leaves in the bush and having some doubt that it could be an animal or a human.

4. **Irregularity of non-perception;**
   
   e.g. being unable to believe that something exists based on never having perceived a thing with qualities as described or inability to believe that such a thing exists. Like a kangaroo which is a big jumping rat!
4. **MOTIVE** *(prayojana)*

A desire which impels one to act

Purpose serves as the motive behind all action which may be to attain something pleasurable or to avoid something undesirable.

Until there is purpose, there can be no successful action; therefore, a wise person never engages in purposeless action.

It is also the *purpose or motive* which determines if an act is morally right or wrong. No act is of itself either good or bad – it is the intention with which it is done that determines its moral character. Therefore as sincere spiritual aspirants we should always be examining and reflecting upon our motives and clarifying our intent.

5. **CORROBORATIVE INSTANCE** *[drṣṭānta]*

The thing about which a layman and an expert entertain the same opinion.

This is also known as “familiar example” and is a common observation of both common folk and experts. Both scientists and laymen accept the general proposition that whenever there is rain there must be clouds; therefore, such an example can be used in the process of reasoning from the known to the unknown.

6. **DEMONSTRATED TRUTH** *[siddhānta]*

A conclusion of an hypothesis, reached and agreed upon by a school of philosophy

*Siddhānta* is a conclusion that is recognised as being logically proven by a certain school of philosophy.

These are of four kinds of *Siddhānta*:

1. A **commonly accepted truth** — is a tenet which is not opposed by any school of philosophy and which is claimed by at least one school; e.g. All schools of Hindu Philosophy accept earth, water, light, air, and ether as the basic five elements, and smell, taste, colour, touch, and sound as the objects of the five senses.

2. A **peculiar truth** — is a tenet which is accepted by similar schools, but rejected by opposite schools.

   e.g., the 3 Abrahamic schools all accept that God creates the world from nothing. All schools of Indian philosophy reject this conclusion, as a something cannot come into existence out of nothing. *(ex nihilo nihilo fit).*
(3) **A consequential truth** — is a tenet which if accepted, leads to the acceptance of another tenet;

   e.g., the acceptance of the doctrine that there is a Self separate from the 5 senses, because it can recognise one and the same object by seeing and touch, implies:—

   (a) that the senses are more than one,
   (b) that each of the senses has its particular object;
   (c) that the Self derives its knowledge through the channels of the senses; and
   (d) that a substance which is distinct from its qualities is the locus of them.

(4) **An implied truth** — is a tenet which is not explicitly declared as such, but which follows from the examination of particulars concerning it.

   e.g., the discussion whether certain people should be allowed to vote implies that those people are capable of understanding and making political decisions.

### 7. THE FACTORS OF REASONING [avayava]

|---------------------------|------------------|------------------------|-------------------------|-------------------------|

Logical reasoning take place through the paradigm known as the Syllogism. Inference (anumāna) is the process of knowing something, not by means of contact between the senses and physical objects and not by observation, but rather through the medium of a sign, or linga, that is invariably related to it.

Inference involves the process of analyzing memories, correlations, propositions, theories and arguments.

The systematic method for arriving at, and testing the validity of inferential knowledge is through the paradigm known as the syllogism.

There are always some inseparable constituents to a syllogism, and if any of these parts are missing or if there is any defect in these parts, then the knowledge inferred is invalid.

The process of reasoning has two applications:—

1. **svārtha** — reasoning for oneself to gain correct knowledge. Reflective thinking about something in order to either convince oneself of a truth, or to discard a misconception.
2. **parārtha** — reasoning to convince another of correct knowledge.

There are 5 logical steps used in a syllogism to establish Right Knowledge.

1. Proposition [pratijñā] is the statement of the thing to be proved.
2. Reason [hetu], is the argument used to prove the proposition.
3. Example [udāharaṇa], is a generally accepted instance of a similar thing
4. Application [upanaya], consists of drawing the comparison.
5. Conclusion [nigamana] shows the convergence of the four previous steps of the syllogism toward the same judgement.

The application of the syllogism can best be illustrated by a few examples:

<table>
<thead>
<tr>
<th>1. Proposition</th>
<th>There is fire burning on the mountain.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Reason</td>
<td>Because there are billows of smoke arising in the distance.</td>
</tr>
<tr>
<td>3. Example</td>
<td>Wherever there is smoke there is also fire, as in a camp-fire or bonfire.</td>
</tr>
<tr>
<td>4. Application</td>
<td>So, on this mountain there is smoke arising.</td>
</tr>
<tr>
<td>5. Conclusion</td>
<td>Therefore, this mountain is alight with a forest fire.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. Proposition</th>
<th>John is mortal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Reason</td>
<td>Because he is a man</td>
</tr>
<tr>
<td>3. Example</td>
<td>All men are mortal such as Socrates, Napoleon, King Henry etc.</td>
</tr>
<tr>
<td>4. Application</td>
<td>John is also a man</td>
</tr>
<tr>
<td>5. Conclusion</td>
<td>Therefore, he is mortal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. Proposition</th>
<th>Fascism is an evil ideology</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Reason</td>
<td>Because it has flawed doctrines of racial superiority and nationalism.</td>
</tr>
<tr>
<td>3. Example</td>
<td>It resulted in the second world and the holocaust.</td>
</tr>
<tr>
<td>4. Application</td>
<td>All this was due directly to Fascist ideology.</td>
</tr>
<tr>
<td>5. Conclusion</td>
<td>Therefore, Fascism is evil.</td>
</tr>
</tbody>
</table>

**Three parts of inference.**

Thus, a syllogism contains three parts:

1. The major term (sādhyā),
2. The minor term (pakṣa),
3. and the middle term (hetu or linga).

In the process of inference,

- the first step is the sight of smoke (hetu) on the hill (pakṣa);
- the second step is the recollection of the invariable (concomitant) relationship between smoke and fire (hetu & sādhyā);
- and the third step is the cognition of fire (sādhyā).

When used for reasoning for one’s self (svārtha) then only these 3 factors are necessary but when used as a formal statement or argument designed to convince others (parārtha), however, all five factors come into play.

In making a statement to convince others we proceed thus:–
The first step will be the predication of the major term in relation to the minor term: ‘There is fire on the hill’.

The second step will be the formation of the middle term in relation to the minor term: ‘There is visible smoke on the hill’.

The third step will be the formation of the middle term in its universal or invariable relationship with the major term: ‘Where there’s smoke, there’s fire’.

In the fourth step it is sometimes helpful to use a specific example to confirm the relationship between the middle term and major term. For instance, ‘Wherever there’s smoke there’s fire, as in the kitchen’.

The fifth step is to affirm the conclusion.

Later commentators have introduced five additional components: however, they do not really form any part of the core argument but can indeed be used to supplement an argument when in opposition. In other words, they can be used to argue against or to harass an opponent in debate.

They are:

1. Inquiry (jijñāsā) — the investigation of the proposition;
   e.g., is all of this hill on fire every where, or just in a particular part?

2. Doubt (saṃśaya) — questioning the reason for the proposition:
   e.g., that which is thought to be smoke may just be dust.

3. Capacity (śakya-prāpti) — to determine if the example warrants the conclusion;
   e.g., is there always smoke wherever there is fire? Gas fires don’t produce smoke.

4. Purpose (prayojana) — to ascertain if the object is something to be pursued, avoided, or ignored.

5. Removal of all doubt (saṃśaya-vyudāsa) — to make certain that the opposite of the proposition is not true;
   e.g., it is settled beyond any measure of a doubt that whenever there is smoke there is fire.

The function of the Proposition is to establish a connection of the substance with the attribute to be demonstrated.

The function of the Reason is to state that the attribute to be demonstrated is the cause; because it furnishes the means by which a thing is proven. It may accomplish its purpose either by affirming the Example or by denying it.

The function of the Example is to show that the two attributes are related in the same substratum — as the thing to be demonstrated and the means of demonstration. It consists of a familiar instance which is known to possess the property to be established and which implies that this property is invariably contained in the reason given.

The Example can be either affirmative or negative. A negative Example is a familiar instance which is known not to have the property to be established and which implies that the absence
of this property is invariably rejected in the reason given. As such, it furnishes the resemblance or difference as the means of the demonstration of the thing to be proved and makes Application possible through resemblance to it.

The function of the Application is to demonstrate that the attribute (which is the means of demonstration) co-exists with the attribute which is to be demonstrate. It consists of a statement which hi-lights the attribute which the thing to be demonstrated possesses, to show that it is or is not in common with the Example.

The function of the Conclusion is to exclude all contrary conclusions against the Proposition to be proved. It brings together the Proposition, Reason, Example, and Application; the Conclusion exhibits the capacity of all the members to operate as a unit and prove the truth of a single statement.

| (1) John is mortal (fact);                      | The first premise states a positive fact. |
| (2) Because he is a man (reason);             | The second premise states the reason for this assertion. |
| (3) All men are mortal – for example, Napoleon, Lincoln, Socrates, and so on (example); | The third premise then confirms the relationship between the reason for the assertion and the asserted fact itself as supported by a well-known example. |
| (4) John is also a man (application);         | The fourth constituent of the syllogism represents the application of the universal proposition to the present case. |
| (5) Therefore John is mortal (conclusion).    | The fifth part, or conclusion, is drawn from the preceding four parts. |

To gain a proper understanding of the workings of logic, let’s examine more closely how a systematic syllogism functions.

To do this, the previous example may be re-analyzed.

‘There is fire on the hill because there is smoke, and where there is smoke, there is fire’.

As was previously discussed, fire is the major term, hill is the minor term, and smoke is the middle term.

The middle term (smoke) is so-called because, on the one hand, it is connected to the minor term (hill), and, on the other hand, it is universally related to the major term (fire).

This middle term is also called reason or grounds since it is because of its perception that the major term is inferred.

Thus, an inference has two conditions:

1. The knowledge of the middle term must exist in the minor term;
2. And a relationship must exist between the middle and the major terms.
N.B. All reasoning is based on the connection between two things! It is not possible to realize the existence of fire on the hill as a conclusion based on inferential reasoning if the invariable concomitance between the middle (smoke) and major (fire) terms is not established.

This invariable concomitance between these two terms of an inference is called vyāpti – the logical ground for inference.

Concomitance guarantees the validity of the conclusion; the validity or invalidity of an inference depends on the validity or invalidity of vyāpti.

Therefore, Nyāya philosophy goes into great detail concerning the nature of concomitance and the fallacies related to it.

**Logical ground for inference.**

Vyāpti, meaning ‘the state of pervasiveness’, implies both that which pervades and that which is pervaded.

For example, in the inference of fire and smoke, smoke is the pervaded and fire is the pervader. Here smoke is always accompanied by fire – wherever there is smoke, there will also be fire.

The reverse, however, is not necessarily true:—

It is possible to have fire without smoke – for example, a Bunsen burner.

But there are examples in which both the pervader and the pervaded coexist permanently – for example, fire and heat.

There are, therefore, two kinds of concomitance:— equivalent and non-equivalent.

a. Non-equivalent concomitance (asama-vyāpti) is an invariable concomitance between two unequal entities (such as smoke and fire). It has already been shown that in this type of concomitance, one entity (fire) may be inferred from the other (smoke), but not vice versa.

b. Equivalent concomitance (sama-vyāpti) is an invariable concomitance between two coexistent terms, either of which can be inferred from the other. For example, a chair is a nameable thing because a chair is knowable, and whatever is knowable, is nameable. Here nameable and knowable can both be inferred from each other.

Concomitance thus denotes a relationship of coexistence (saha-carya). But not every instance of coexistence is an example of concomitance. Fire, for example, often coexists with smoke, yet it may exist without smoke.

The coexistent relationship of fire and smoke depends on certain conditions – temperature and wetness, for instance. The limiting condition on which the relation of coexistence depends is called upādhi, and for an inference to be valid, the relation between the middle and major terms of a syllogism must be independent of any and all conditions. In other words, a valid concomitance represents an invariable and unconditional concomitant relation (nitya anupaṭādika sambandha) between the middle and major terms of a syllogism.

But how does one know that a relation is invariable and unconditional?

The Vedānta philosophers reply that concomitance is established by the un-contradicted experiences of the relationships between two things i.e. by repeated observation. But
according to Nyāya, concomitance is established through the perception of classes (*samānyā lakṣāna*).

Actually, the Nyāya method of inference uses **inductive reasoning**; that is, it draws a particular conclusion on the grounds of a general and universally known truth.

The universal truth is considered to fall within the range of *vyāpti*.

In Nyāya, there are three types of inductive analysis, or generalization.

- The first is *anvaya*, or uniform agreement in presence. This type of inductive process arises from observing a relationship in which, if one constituent is present, then in every instance the other constituent is also present – for example, wherever there is smoke there is fire.

- The second type of inductive analysis is the obverse of the first, and is called uniform agreement in absence (*vyatireka*). In this method, a negative universal relationship or invariable concomitance is observed – for example, wherever there is no fire, there is no smoke.

- The third kind of inductive process is a combination of the first and second methods. In this method, known as uniform agreement in both presence and absence (*anvaya-vyatireka* or *vyabhicāra-graha*), both constituents of a relationship are always found together; neither is ever present without the other. From this, it is induced that there must exist a natural relationship of invariable concomitance between them.

These three methods of generalization demonstrate a systematic technique for inductive reasoning. The most crucial concern, however, in any systematic inference is how to make certain that concomitance, the logical basis for the inference, is valid – that is, free from limiting conditions (*upādhis*). This process of ensuring that *vyāptis* are free from all vitiating conditions is called *upādhi-nirasa*. One way of ensuring this is by the repeated observation of both constituents of a relationship under all possible circumstances to make certain that the relationship is in fact invariable.

Another way is to employ hypothetical critical argumentation or *tarka*. But Nyāya places the greatest emphasis on *samānyā lakṣāna* – the perception of general classes – as the major means for insuring the validity of *vyāptis*.

### 8. FALLACIOUS REASONING [hetvābhāsa ]

These are; the irregular middle (*sabyabhicāra*), the contradictory (*viruddha*), the inconclusive (*satpratipakṣa*), the unproved (*asiddha*), and the Anachronism (*bādhita*).

These are the five forms of erroneous reasoning. To understand the reasoning we need to bear in mind the 3 parts of a syllogism:

1. The major term (*śādhyā*) — that which we are seeking to prove
2. The minor term (*pakṣa*) — the subject
3. and the middle term (*hetu*) — the reason given for the conclusion.
1. The Irregular middle or the ambiguous — the reason given leads to more than one conclusion.

Proposition: All beings that live in the Himalayas are saints, tigers live in the Himalayas and therefore tigers are saints.

Major term: Saints
Middle term: Himalayan beings
Minor term: Tigers
Conclusion: Wrong or ambiguous

As we learnt earlier the middle and the major terms must be in a concomitant relationship. Because both tigers and saints as well as many other varieties of beings live in the Himalayas the conclusion of this inference cannot be said to be correct, because the middle term, Himalayan beings, is not invariably related to the major term, saints.

Proposition: Sound is non-eternal, because it is intangible, all intangible things are non-eternal.

Major term: Non-eternal
Middle term: Intangible
Minor term: Sound
Conclusion: Wrong or ambiguous

Here two opposite conclusions have been drawn from the same reason. This is due to the fact that there is no distinct relationship between "intangible" and either "eternal" or "non eternal." In other words, the middle term "intangible" is not specifically connected to either of the terms "eternal and non eternal"; therefore the reason is said to be ambiguous.

2. The self-Contradictory — the reason dismisses what is sought to be established.

Proposition: Sound is eternal because it is produced, everything produced is impermanent.

Major term: Eternality
Middle term: Produced things are impermanent
Minor term: Sound
Conclusion: Contradiction

Here the reason contradicts that which is to be proved, because that which is eternal is never produced. Eternal and produced are contradictory attributes and mutually exclusive.

3. The Inconclusive (i.e. Petitio Principii) — the reason which provokes the very question for the solution of which it was employed. (Begging the question)
Proposition. The body is non-eternal, because it does not possess the attribute of eternality.

Major term Non-eternity
Middle term The attribute of eternality
Minor term The body
Conclusion Non-eternity is the same as 'not possessing the attribute of eternality'

Here nothing new is contributed to the thesis. The reason merely begs the question, for "non-eternal" is the same as "not possessing the attribute of eternality."

In other words, the subject matter of the topic is advanced as the reason for the desired inference.

This stops the argument and makes the investigation of Truth impossible.

4. Non-sequitur – unproven — the reason which stands in need of proof, in the same way as the proposition does.

Proposition. All Hindus are vegetarians because they all believe in the doctrine of Ahimsā.

Major term vegetarians
Middle term believe [in ahimsa]
Minor term Hindus
Conclusion unproven

Here it is necessary to prove the middle term i.e. that all those who believe in ahimsa are necessarily vegetarians (Buddhists, Jains, Quakers etc); therefore, proposition remains unproved.

5. The Annulled or Contradicted— the reason given contradicts the premise 

Proposition. Fire is cool
Annulled reason Because it is a product like water

Here the thing to be proven is the coolness of fire, but in this syllogism the fact of being a product has been advanced as the proof for the absence of heat, but heat, the negation of coolness is known from tactile perception and so therefore the reason contradicts the premise.

Added to these five fallacies also those which suffer from the three defects which are:

- too narrow a definition
- too broad a definition
- the impossible
9. HYPOTHETICAL REASONING [tarka]

A process for ascertaining the real nature of a thing of which the character is not known.
A method of arriving at the truth by showing the absurdity of all contrary ideas.

_Tarka_ is a method of attaining knowledge of the truth about an unknown or uncertain thing by comparing and then gradually eliminating all the competing suppositions;

E.g. Is the Self a product or a non-Product?

**If the Self is a non-product**, it will experience the result of its action and will, on the eradication of the causes of re-birth, attain release; therefore, re-birth and release are indeed possible.

**If it is a product**, these will not be possible, because the Self’s connection with the body, mind, and senses will not be the result of its own action, nor will it experience the fruit of its own actions. The phenomenon of re-birth and release is well known and established; therefore, the Self must be a non-product.

This form of reasoning is also called _Confutation_. This is not a method which ascertains, determines and verifies that the Self is a particular thing and nothing else. It simply eliminates all other contesting theories to the supposition it supports; after which Truth is established through the application of other means of Right Knowledge. For this reason _Confutation_ is considered to be a supporting technique and is, therefore mentioned separately.

10. DIALECTIC [nirṇaya]

The removal of doubts, and the resolution of a dispute, by examining two opposite views.

_Dialectic_ is in the form of a dialogue between two people who may hold differing views, yet wish to establish the truth by seeking agreement with one another.

This is in contrast to _debate_ in which two or more people hold differing views and wish to persuade or prove one another wrong (and thus a jury or judge is needed to decide the matter).

The sequence of investigation is as follows:—

First impression

- doubt arises
  - examining the opposite view (_pūrva pakṣa_)
    - application of logic
      - determination of the controversy
        - ascertainment of Truth. (_nirṇaya_)

Doubt is the result of first impression and gives impetus to investigation in order to ascertain the truth.
“Ascertainment” is unnecessary in the case of direct perception or the verbal testimony of a trustworthy authority. But you must first be convinced that the authority is trustworthy. In other words, everything should be doubted and questioned and not accepted simply because the person holds a degree or title. You must test that individual and once you have assured yourself of their trustworthiness then you can accept their statements without further investigation.

Endlessly questioning for the sake of questioning is not useful for acquiring and furthering knowledge.

11. **DISCUSSION** [vāda]

A dialogue in which one adopts one of two opposing positions.

The purpose of Discussion is to arrive at the truth of the proposition under consideration. This may be achieved by talking about the topic with anyone who is a sincere seeker of Truth.

In vāda it is not necessary to establish one's own thesis, it is enough to submit one's views for examination in order to ascertain the Truth.

The discussion does not necessarily have to take into consideration the opposite opinion; it is enough to put any proposition to the test of logic.

The usual procedure is to maintain the thesis by means of Right Knowledge and to attack the counter-thesis by means of tarka.

12. **POLEMIC** [jalpa].

A vigorous verbal disputation directed at gaining victory only.

The sole purpose of engaging in a polemic is simply to gain victory over the other party.

There’s no desire to either gain further knowledge of Truth or to establish one’s own position, and therefore, one can employ any device of debate in order to win.

These devices are usually of a negative character, such as attacking the opponent’s character, (argumentum ad hominem) quibbling, advancing futile arguments, reducing to absurdity, evading the issue, focussing on examples or metaphors rather than on the actual argument itself etc.

13. **CAVIL** [vīṭaṇḍa]

A kind of wrangling, which consists in mere attacks on the opposite side.

In cavil there is no desire to establish any proposition. The only interest is to heckle the speaker by carping and offering frivolous objections.
Polemics and Cavilling, which are considered as forms of Discussion, may be used by an aspirant of Truth only as means of protecting one's young and fragile knowledge which has not yet matured into a full blossomed conviction.

One may occasionally encounter objectionable people who, devoid of true knowledge, are puffed up with their academic achievements or are deluded by their own erroneous convictions. These people may try to impose their views and beliefs on others. Under such circumstances the student is urged to make use of these argumentative devices in order to safeguard the development of knowledge in the same way that nature uses thorns on some plants to safeguard the growth of its fruit.

If one’s philosophy or belief system is under attack then one may also employ these negative means for self-defence. One should never gratuitously criticize or attack anyone else’s belief system, ideology or way of life if that person is keeping to themselves. When a person tries to impose their views on others then defence is required.

14. CASUISTRY

The opposition offered to a proposition by the assumption of an alternative meaning.

Casuistry is of three sorts: -

(1) Playing upon words (vacas). This consists of wilfully taking a term to mean something different from that intended by the speaker;
   e.g., taking the word 'quadruped' to mean four-legged table instead of an animal.

(2) Generalisations (sāmānyas). This consists of asserting the impossibility of a particular part because of the impossibility of the whole;
   e.g., to deny that a particular cow is black because all cows are not black.

(3) Metaphors (upacārās). This consists of invalidating a word used in a particular context by taking it literally when it was used metaphorically;
   e.g., the ‘House cheered’ means that the people in the house cheered and not the physical structure.

15. FUTILE REJOINDER

Offering objections founded on mere similarity or dissimilarity.

The reply is said to be futile if it does not take into consideration the universal connection between the middle term and the major term. Mere similarity or dissimilarity is not sufficient.

There are twenty-four kinds of futility which aim at showing an equality of the arguments of two sides so that neither side can win the argument. They are as follows:

1. Equalising the homogeneity.
2. Equalising the heterogeneity.
3. Equalising the addition.
4. Equalising the subtraction.
5. Equalising the questionable. 6. Equalising the unquestionable.
7. Equalising the alternative 8. Equalising the reciprocity
9. Equalising the co-presence. 10. Equalising the mutual absence.
11. Equalising the infinite regression. 12. Equalising the counter-example
15. Equalising the controversy. 16. Equalising the non-reason.
17. Equalising the presumption. 18. Equalising the non-difference
19. Equalising the non-demonstration. 20. Equalising the perception.
23. Equalising the eternality. 24. Equalising the effect.

16. CLINCHERS [nigraha-sthāna]

A situation in which one misunderstands, or does not understand at all.

There is no purpose in entering into a debate with one who demonstrates an utter lack of understanding of the subject being investigated; therefore, one is advised to stop the discussion the moment the other demonstrates an ignorance of, or misunderstanding of the subject under discussion.

Twenty-two occasions of “disagreement in principle” are listed and discussed in the Nyāya Texts. Any one these will result in the loss of the debate, but it is beyond the scope of this course to examine them in full detail. They are:-

1. Non sequitur — i.e. the conclusion does not follow from the premise.
2. Renouncing one’s original proposition.
3. Deviating from the original proposition.
4. Shifting or adjusting the original proposition in response to the arguments.
5. Self-contradicting one’s own original proposition
6. Changing or altering the original reason given for the proposition.
7. Changing the topic in the middle of the debate.
8. Offering meaningless reasoning.
10. Offering incoherent or confusing reasoning.
11. Advancing a line of reasoning which is inappropriate to the occasion.
12. Saying too little or refusing to elaborate on one’s position
13. Saying too much or over stating the case
14. Repetition of the argument over and over without moving forward
15. Silence — failure to respond
16. Demonstrating an ignorance of the subject matter under discussion, or lacking pertinent details.
17. Non-ingenuity i.e. failure of being original or witty.
18. Evasion of the question.
19. Admission of the opponent’s view.
20. Ignoring the censurable aspects of one’s logic when it’s pointed out to one.
22. Giving only a semblance of a reason or a made-up reason in an attempt to hoodwink the opponent.

By studying these clinchers one can learn the art of the argument and how to avoid losing the debate. I give here some guidelines.

• Before engaging in any debate or argument first study the opponent’s position (pūrvapakṣa) looking for the weak points and anticipating the counter arguments they are likely to mount. It is a good idea never to argue a point or defend a subject that you have no knowledge about or only semi or popular knowledge.

• Plan your argument well and have all the facts at your fingertips – quote from the originals whenever possible.

• Make sure that you define all terms of the debate before you begin. Don’t assume the meaning of anything.

• Try to be objective as possible and always acknowledge your own failings and the good points of your opponent.

• Present your proposition clearly and be careful not to adjust or change your position in response to attacks by the opposition. Just keep returning to and reiterating your position.

• Use clear logic and reasoning avoid sarcasm and abuse.

• Try to be innovative and witty, keep your sense of humour and avoid getting heated, disturbed and cranky.

• Always focus on the argument only and avoid all personal attacks against the opponent – remain respectful and gracious.

• Ask simple questions and respond to each point raised.