

1886

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Jalandhar-Pathankot Highway (NH-44), Sarmastpur-144012, Jalandhar, Punjab

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14<sup>th</sup> Oct. 2023

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**Sub: Access to DrillBit: A Plagiarism Detection Software**

Respected Sir,

Since Sep.2021, we had the access to Urkund, (plagiarism detection s/w). Access was free of cost for all the universities through INFLIBNET as approved by MHRD. The subscription to the URKUND is ceased with INFLIBNET on 30<sup>th</sup> Sep.2023 and now they are switching to DrillBit plagiarism detection s/w and like the previous one, this time also it is free to universities. Upto 31<sup>st</sup> Oct. 2023, it is under trial and from 1<sup>st</sup> Nov. the proper access will start. Under this S/w the Regular faculty and Phd Research Scholars can be registered as users. The rest faculty and students (contractual faculty/guest faculty, students other than Phd Research Scholars) can get the plagiarism reports through the admin as per requirement.

Now the plagiarism report required for the final submission of Phd. Thesis will be submitted as per DrillBit S/w.

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Thanks.

Regards.

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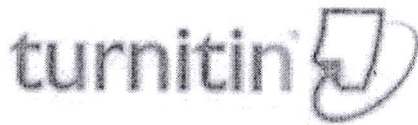
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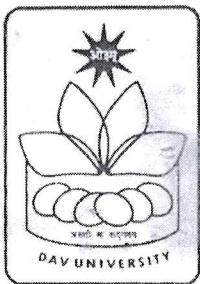
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Dear Prof. Joorel,

Greetings from DAV University.....!!!!

This is with ref. to your letter regarding providing feedback (faculty & Phd. students) and assigning nominee/coordinator for Plagiarism Detection Software (PDS) & Shodhganga, Ms Maninder Kaur Sood, In charge, E-Section (Central Library, DAVU) will coordinate with you from our University. Pls set up our account accordingly.

Regards.

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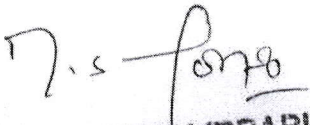
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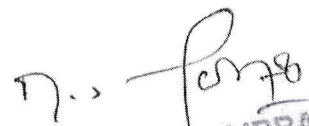
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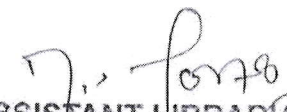
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ABSTRACT Background Individual personality is reflected in their thoughts, emotion and behaviour. Type D personality is defined as joint tendency towards negative emotions and social inhibition. Type D personality is associated with Anxiety, Depression and Psychological Stress which has adverse effect on physical & psychological well-being. Method among university students, to assess the intervening role of Optimism and Resilience in relationship of Type D personality with Psychological well-being and to study the prevalence of Type D personality in male and female university students. The study consisted of Total sample (N=700) students, both males and females age ranging from 18 to 25 years from various departments of DAV university, Jalandhar. The total sample (NE 700) was administered Type D personality scale-DS-14 (Denollet et al., 1996) Out of 700 sample, two Groups Group I, Type D Personality (N=416) and Group II, Non Type D Personality (N=284) were formed. Ryff's psychological well-being Scale (Ryff, 1989), Optimistic-Pessimistic-Attitude Scale (D.S Parsahar, 1998) and the Resilience Scale (RS-14), (Wagnild & Young 1993) were administered. Data was analysed by calculating Frequency distribution, along with the Mean, Standard Deviation, Skewness and Kurtosis of the variables. For analysis of the data, Factor Analysis, Inter-correlations, Simple Correlations and Partial Correlations were applied. Results A significant negative correlation emerges between Type D personality and Psychological well-being, where as there is a significant positive correlation between Type D Personality and Psychological well-being. Partial Correlation was also

  
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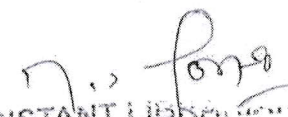
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CHAPTER 1 INTRODUCTION An insect's development is the result of intensive cellular activity and gene expression. In insects, pattern formation precedes cell type specification. Insects have two types of orthogonal axes patterning: anterior-posterior (AP) and dorsal-ventral (DV). Despite the insects' diverse modes of embryogenesis and final morphological structures, greatly conserved gene regulatory networks have been noticed to establish axes formation in most of them. Earlier research, for example, suggests that *wnt* signalling, by controlling the expression of Hox cluster genes, plays a conserved role in establishing the anterior and posterior axis of most insect species (Peterson and Raddien, 2009; Lynch and Roth, 2011). Furthermore, the presence of BMP morphogen gradient pathway is widely conserved in the establishment of the dorsal and ventral axis in early embryonic stages (De Robertis, 2008). Although many axis patterning genes have been found to be conserved in different insect species, these have been conserved in *Drosophila melanogaster* AP axis patterning, whereas a novel gene *bicoid* is found to play an important role in the same. Similarly, in the case of dorsal and ventral patterning, the Toll cascade is crucial, whereas the BMP signalling is greatly reduced in *Drosophila melanogaster* (Lynch and Roth, 2011; Sachs et al., 2015). Therefore, studying the evolution of axial patterning systems may contribute in our understanding of how conserved regulatory networks may respond to new patterning contexts and how evolutionary changes may be incorporated into an already existing patterning system. For over a century, a single species of *Drosophila melanogaster* has been preferred for research in animal development, genetics, genome organisation and evolution. The whole *Drosophilidae* family is a leading model system in genetics, developmental biology, and genomics (O'Grady and De Salle, 2018; Gompel and Carroll, 2003). Whereas *Tribolium castaneum*, a low-maintenance beetle in the insect family Tenebrionidae, has evolved into an elaborate model system for exploring the evolution of development for functional genetic studies of basic biological concerns. Insects that are holometabolous, such as *Tribolium* and *Drosophila*, have different

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CHAPTER I INTRODUCTION

Every biological life on Earth requires water to survive. Due to rapid urbanization and global population growth, there is a growing need for fresh water. In the least developed parts of Asia, Africa, Central America, and South America, it is one of the main issues. Water pollution is either a direct or indirect result of waste products created during the manufacturing of basic needs used in daily activities. As a result, future generations may not have as much access to clean water. To meet our present and future needs for freshwater, it is necessary to create more advanced and effective water purifying techniques. Wastewater treatment using nanotechnology has proven to be effective, affordable, and environmentally friendly. Nanomaterials, which range in size from 1 - 100 nm, have distinct physical and chemical characteristics that set them apart from their bulk counterparts. Further, their properties are easily modifiable and can also be systematically controlled by a variety of alterations made throughout the synthesis process. Recent decades have seen the development of a number of metal oxide nanostructures with uses in water purification methods. This chapter begins with a quick overview of the water pollution caused by dyes and their harmful effects. The classification of dye removal techniques is then covered, after which the fundamental idea and workings of the photocatalysis process are thoroughly addressed. The chapter ends with a detailed discussion of the fundamental characteristics, polymorphic phases, and applications of titanium dioxide.

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1 Chapter 1 INTRODUCTION 1.1 General Horsegram [*Macrotyloma uniflorum* (Lam.) Verdc.] is an important pulse and forage crop of many tropical and subtropical countries. In India, it is widely cultivated as a pulse crop (Blumenthal and Staples, 1993). Horsegram is a self-pollinating diploid plant belongs to family Fabaceae having diploid chromosome numbers of  $2n = 20$  (Chahota et al., 2017). Africa is considered as center of origin for wild species of horsegram (Verdcourt, 1971) and for cultivated horsegram center of origin still a debatable issue (Chahota et al., 2013). In India, South-Western region is considered as primary center of origin however, North-Western Himalayan region is the secondary center of origin as a cultivated plant (Arora and Chandel, 1972). The total area and production during twelfth plan for horsegram was 2.32 lakh hectares and 1.05 lakh tonnes. In India, Karnataka was on the first position with 26.72% area and 25.71% production followed by Odisha (19.46% area and 15.48% production) and Chhatisgarh (19.29% area and 13.29% production). The highest yield was recorded in the state of Bihar with 959 kg/ha followed by W.B. (796 kg/ha) and Jharkhand (603 kg/ha) (Tiwari and Shivhare, 2016). Horsegram is a drought hardy crop and is grown in dry seasons in a wide range of soil types having low water content (Oram, 1990). Due to many desirable traits such as tolerance to drought, salinity and heavy metal stresses, horsegram has been considered as a potential future crop species (Reddy et al., 2008). After cereals, legumes are the second most important crops which have been a vital component of balanced human diet since many years and meant to be as the second most valuable plant source for human and animal nutrition (Bhatt and Karim, 2009). This underutilized legume plays the important role in the diet of the rural, during drought and dry season (Magbagbeola et al., 2010). This Pulse crop is the excellent sources of protein, dietary fiber, micronutrients and phytochemicals. Despite the presence of such significant properties, the area and production under this crop could not be increased due to the presence of many undesirable traits such as twining growth habit, longer days to maturity accompanied by asynchrony, photosensitivity and indeterminate growth habit. The distribution of desirable traits in different Indian germplasm lines further aggravated the problem to initiate a successful breeding programme (Chahota et al., 2005). Owing to biotic and abiotic stresses and the fact that horsegram is grown in low-input and risk prone marginal environments, there is very low productivity observed in this crop. Besides, limited genomic

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#### CHAPTER 1

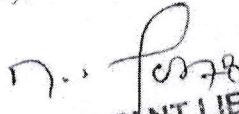
"Remember to look up at the stars, not down at your feet. Try to make sense of what you see, and wonder about what makes the Universe exist. Be Curious" - Stephen Hawking

INTRODUCTION Be Curious. Having said that, it becomes extremely important to be passionately curious and at the same time intellectually critical in order to explore different materials for novel innovations. One such novel material was invented by accident in the late 19th century by Austrian botanist and chemist Friedrich Reinitzer, while examining the properties of cholesterols extracted from carrots. The material was later named as Liquid Crystal (LC), and described as mesophases between the crystalline solid and isotropic liquid. Since then, LCs have attracted much of the scientific and industrial community owing to its optical and electrical properties and thus, extensive research on these materials resulted in their endless application in display devices, pharmaceutical industries, cosmetic industry etc. These materials are also rich in topological defects and it is one of the most noticeable characteristics as these defects explain the fundamental behavior and properties of these mesophases. These defects are important to understand a wide range of phenomena found in different branches of science.

Topological defects are the result of broken symmetry in an ordered system and thus, exists as points of discontinuous order in the vector field that describes the average orientation of the molecules in space. Recently, LC topological defects have been investigated from the standpoint of technological applications such as nanomaterial self-assembly, optical-vortex generation, tunable plasmonic metamaterials. They were also used in exploiting some cosmological models like Kibble-Zurek Mechanism [1-4]. Few groups have rigorously explored LCs to study the topological defect formation both theoretically and experimentally in order to observe how the early Universe works. However, the work was mainly focused on nematic LC. Till date, the study of other LC phase transitions as well as the effect of doping on the appearance of topological defects has not been explored.

In the present thesis, an attempt is made to study the topological defects in pure and doped liquid crystals. The influence of dopants on the formation of topological defect was investigated. Also, suitable theories have been analyzed to explain the experimental results. Before delving into the topological defects in liquid crystal, a brief overview of topological defects and Liquid Crystals is discussed in Section 1.1 and 1.2, respectively.

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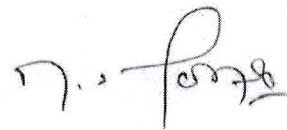
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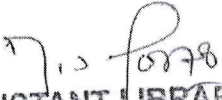
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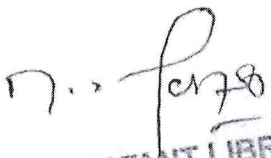
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Chapter 1 Introduction 1.1 Nonlinear Phenomena Physical phenomena are studied in terms of processes that are, in turn, expressed as mathematical models. The complexity of the processes directly influences the structure of the model. Mathematically, differential equations can be categorized as linear evolution equations and nonlinear evolution equations (NLEEs). The linear differential equations are comparatively easier to handle because of the applicability of superposition principle and availability of significant numbers of systematic methodologies to solve these equations. Hence the underline physical processes can be well interpreted. But nearly all natural and most artificial processes are highly nonlinear in their representation. A list of the prominent ones includes optics, granular media, vibration and wave motion, chemical processes involving mixing, and each quantum physics. However, differential equations are difficult to solve because of their mathematical intricacy. In order to illustrate this fact, the example of one-dimensional motion of a point mass can be taken into account. This mass is connected to a spring of force constant ( $k$ ) and subjected to a force. This process is governed by the following equation  $m \frac{d^2 x}{dt^2} = -kx$  (for  $F \propto x$ ) (1.1). Here, the Eq. 1.1 is valid (to an extent) for small values of  $x$ , inside the proportionality limit. Once one crosses this limit, the first order algebraic solutions

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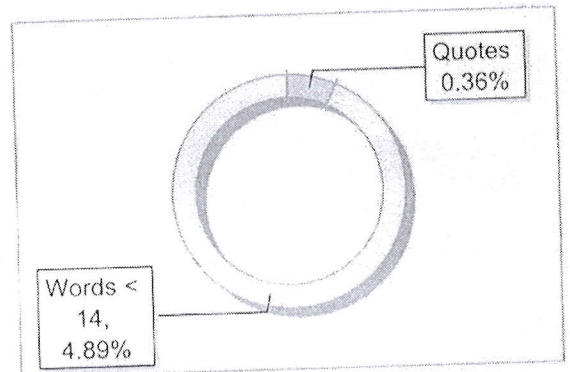
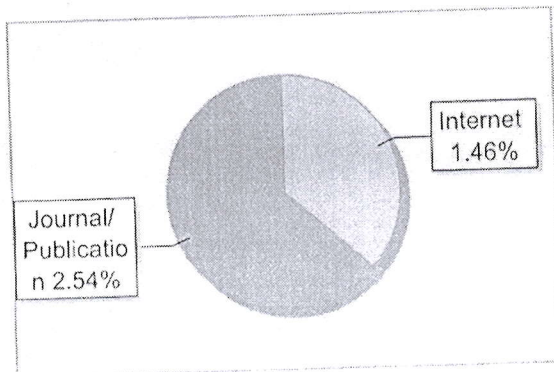
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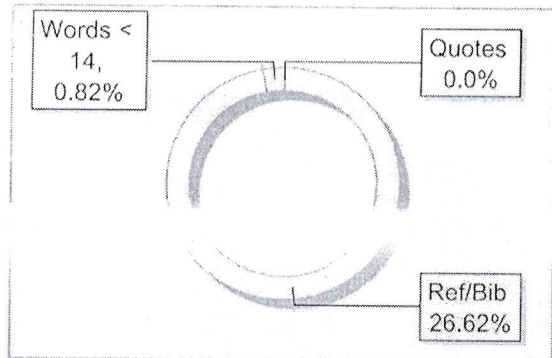
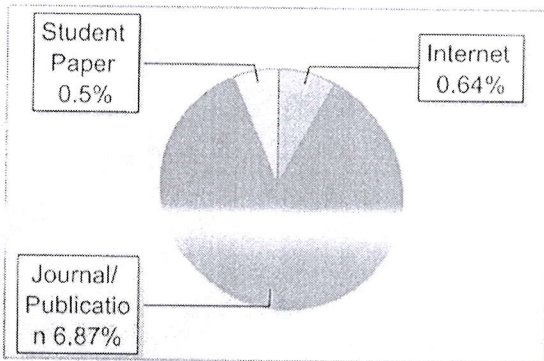
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