

# Research Collaboration

## Some Results of a Gamma Group-I

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**Abstract.** We study the concept of  $\Gamma$ -group,  $\Gamma$ -Subgroup, Normal  $\Gamma$ -Subgroup,  $\Gamma$ -cosets and study their properties. We prove some of the basic results such as if  $G$  be a  $\Gamma$ -group  $G$  with zero element  $0$  and for  $x \neq 0, xax = xax$ , where  $x, y, z \in G, a \in \Gamma$  implies  $y = z$ , then  $G$  is commutative. Further if  $G$  be a commutative strong multiplicative  $\Gamma$ -idempotent  $\Gamma$ -group. Then  $(ayb)\gamma(ayb) = (aya)\gamma(hyb) = ayb$ , for all  $a, b \in G$  and  $\gamma \in \Gamma$ . Again if  $P$  is a Normal  $\Gamma$ -Subgroup of  $\Gamma$ -group  $G$  if and only if  $N(\Gamma P) = G$ .

**Keywords.** Semi group,  $\Gamma$ -Group, Normal  $\Gamma$ -subgroup,  $\Gamma$ -coset.

### INTRODUCTION

As a speculation of ring, the notion of a  $\Gamma$ -ring was introduced by Nobusawa [9] in 1964. The notion of a ternary algebraic system was introduced by Lehmer [1] in 1932. In 1995, Rao [2-4] introduced the notion of a  $\Gamma$ -semiring as a generalization of  $\Gamma$ -ring, ring, ternary semiring and semiring. Rao [7-8] introduced the notion of field  $\Gamma$ -semiring and  $\Gamma$ -field. Semi group, as the basic algebraic structure was used in the areas of theoretical computer science as well as in the solutions of graph theory, optimization theory and in particular for studying automata, coding theory and formal languages. The formal study of semi groups begins in the early 20th century. In 1981, Sen [11] introduced the notion of a  $\Gamma$ -semigroup as a generalization of semigroup. Rao [5] studied ideals of  $\Gamma$ -semirings, semirings, semigroups and  $\Gamma$ -semigroups.

The motivation of this paper is [6] where in Rao received a substitute way to generalize notion of  $\Gamma$ -group, regular  $\Gamma$ -group and study their properties. In this paper, we study the concept of a  $\Gamma$ -group as a generalization of group. Further we prove some basic results regarding  $\Gamma$ -Subgroup, Normal  $\Gamma$ -Subgroup,  $\Gamma$ -cosets etc. and study some of the properties of a  $\Gamma$ -group.

### PRELIMINARIES

**Definition 2.1.** [6] "A semigroup is an algebraic system  $(G, \cdot)$  consisting of a non-empty set  $G$  together with an associative binary operation  $\cdot$ ."

**Definition 2.2.** [6] "An algebraic system  $(G, \cdot)$  consisting of a non-empty set  $G$  together with an associative binary operation  $\cdot$  is called a group if it satisfies the following:

- (i) there exists  $e \in G$ , such that  $x \cdot e = e \cdot x = x$ , for all  $x \in G$ .
- (ii) if for each  $x \in G$  there exists  $y \in G$ , such that  $x \cdot y = y \cdot x = e$ ."



## RESEARCH ARTICLE



## OPEN ACCESS

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## Strong Gamma Group

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## Abstract

**Objectives:** The primary goal of this study is to present the concept of a strong  $\Gamma$ -group as a generalization of  $\Gamma$ -group. **Methods and Findings:** We have investigated some of the properties of the  $\Gamma$ -group and extended it to introduce the idea of a strong  $\Gamma$ -group. **Novelty:** Every strong  $\Gamma$ -group is a  $\Gamma$ -group, but not all  $\Gamma$ -groups are strong  $\Gamma$ -groups. Further if  $G$  is a non-empty  $\Gamma$ -semigroup and for all  $a, b \in G$ , the equations  $a\alpha x = b$  and  $y\alpha a = b$  for all  $x, y \in G$  and for all  $\alpha \in \Gamma$  have unique solutions in  $G$ , then  $G$  is a strong  $\Gamma$ -group. Also, we characterize that non-empty subset  $H$  of a strong  $\Gamma$ -group  $G$  is a strong  $\Gamma$ -subgroup if and only if for all  $a, b \in H, a\alpha c \in H$  for all  $\alpha \in \Gamma$  where  $c$  is strong inverse of  $b$  in  $G$ . Finally, we prove that the intersection of two strong  $\Gamma$ -subgroups is again a strong  $\Gamma$ -subgroup and the center of strong  $\Gamma$ -group  $C(G)$  is also a  $\Gamma$ -subgroup.

**Keywords:** Semigroup; Strong  $\Gamma$ -group; Strong  $\Gamma$ -subgroup; Centre of  $\Gamma$ -group

## 1 Introduction

The notion of a ternary algebraic system was introduced by Lehmer in 1932. As a speculation of ring, the notion of a  $\Gamma$ -ring was introduced by N Nobusawa in 1964. In 1981, M. K. Sen introduced the notion of a  $\Gamma$ -semigroup as a generalization of semigroup. In 1995, Rao<sup>(1)</sup> introduced the notion of a  $\Gamma$ -semiring as a generalization of  $\Gamma$  ring. The formal study of semi groups begins in the early 20th century. Rao studied ideals of  $\Gamma$ -semirings, semirings, semigroups and  $\Gamma$ -semigroup. In this paper, we study the concept of a strong  $\Gamma$ -group as a generalization of  $\Gamma$ -group. Further, we prove some basic results regarding strong  $\Gamma$ -subgroup, centre of strong  $\Gamma$ -group etc. and study some fundamental properties of a strong  $\Gamma$ -group.

## 1.1 Preliminaries

We include some necessary preliminaries from<sup>(1-3)</sup> for the sake of completeness.

**Definition 2.1.** A semigroup is an algebraic system  $(G, \cdot)$  consisting of a non-empty set  $G$  together with an associative binary operation<sup>1</sup>.

## On Some Results of Strong $\Gamma$ -Subgroups of a Strong $\Gamma$ -Group

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<sup>3</sup>[trpangotra@gmail.com](mailto:trpangotra@gmail.com)*

### Abstract

In this paper, we study the concept of strong  $\Gamma$ -group, strong  $\Gamma$ -subgroup and their properties viz:  $\Gamma$ -cosets, Normal  $\Gamma$ -subgroups, one-to-one correspondence between any two strong  $\Gamma$ -left(right) cosets of a strong  $\Gamma$ -subgroup in a strong  $\Gamma$ -group etc. Further if  $H$  and  $K$  be two strong  $\Gamma$ -subgroups of a strong  $\Gamma$ -group  $G$ . Then  $H\Gamma K$  is a strong  $\Gamma$ -subgroup of a strong  $\Gamma$ -group  $G$  if and only if  $H\Gamma K = K\Gamma H$ .

**Keywords:** Strong  $\Gamma$ -group, Strong  $\Gamma$ -subgroup,  $\Gamma$ -cosets, Normal  $\Gamma$ -subgroups.

### 1. INTRODUCTION

The notion of a ternary algebraic system was introduced by Lehmer [1] in 1932. As a speculation of ring, the notion of a  $\Gamma$ -ring was introduced by Nobusawa [7] in 1964. In 1981, Sen [8] introduced the notion of a  $\Gamma$ -semigroup as a generalization of semigroup. In 1995, Rao [2-5] introduced the notion of a  $\Gamma$ -semiring as a generalization of  $\Gamma$ -ring, ring, ternary semiring and semiring. Rao [6] introduced the notion of field  $\Gamma$ -semiring and  $\Gamma$ -field. Semi group, as the basic algebraic structure was used in the areas of theoretical computer science as well as in the solutions of graph theory, optimization theory and in particular for studying automata, coding theory and formal languages. The formal study of semi groups begins in the early 20th century. Rao [5] studied ideals of  $\Gamma$ -semirings, semirings, semigroups and  $\Gamma$ -semigroups. Kumar [13] introduced the

## Collaboration for Internship/On Job Training



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Dated:

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- Students will follow rules and regulations prescribed by the organization during the course of OJT.
- Students will work according to the pre-defined job role by the college administration on NOC of the student.
- It will be the responsibility of the organization to ensure the safety and security of the students during on-the-job internship at their respective place.
- Any issue related to health will be addressed by the organization itself during OJT at workplace.
- Working hours of students during OJT will be according to the prescribed laws by the government of India i.e., 40-45 hours per week.
- It is responsibility of the organization to address any issue of misconduct and harassment on trainees during OJT.
- Students will be given week off.
- In case of any major health related issue college Administration must be informed.
- Special emphasis must be given to ILM (Internship learning Map) provided to students by college administration while planning daily activity for the students.
- Students must not be indulged in any activity impertinent to OJT.

The MOU is effective from 1 June 2022 to 30 July 2023.

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Principal  
SVGC Ghumarwin

Organization Name

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Ghumarwin, Distt. Bilaspur (H.P.)  
Principal  
SVGC Ghumarwin

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Principal.  
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Organization Name

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- The MOU is effective from 1 July 2022 to 30 June 2023

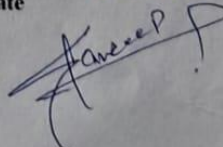
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Organization Name  
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Official Signature

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## S.V.G College Ghumarwin Distt. Bilaspur (H.P.)

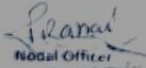
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This is to certify that the following students are regular students of Swami Vivekananda Government College Ghumarwin, Distt. Bilaspur (H.P.) and are enrolled under course B.Voc (Retail Management Level-4). Edubridge Learning Pvt. Ltd. has arranged their 27 hours of on-the-job training at your reputed Reliance Trends at Ghumarwin. Also, you need to provide experience certificate to all each student after they complete on-the-job training in your store.

The training will start from 5th December till 4th January 2023. Retail Management students will join on 5th December 2022.

The list of students/place of training is attached below.

- |                    |                   |
|--------------------|-------------------|
| 1. Neha Kumari     | 7. Kamna          |
| 2. Anyan Sharma    | 8. Kangna         |
| 3. Bhawna Chandol  | 9. Riya Kumari    |
| 4. Avinash Patiyal | 10. Sanjana       |
| 5. Sakshi Kaushal  | 11. Aanchal       |
| 6. Priya Devi      | 12. Sakshi Thakur |

  
Prasad  
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## S.V.G College Ghumarwin Distt. Bilaspur (H.P.)

### TO WHOM IT MAY CONCERN


This is to certify that the following students are regular students of Swami Vivekananda Government College Ghumarwin, District Bilaspur (H.P.) and are enrolled under course B.Voc (Retail Management Level-4). Edubridge Learning Pvt Ltd has arranged their 210 hours of on-the-job training at your reputed Octave, Aurelia and Numero Uno at Ghumarwin. Also, you need to provide experience certificates to the each student after they complete on-the-job training in your store.

The training will start from 5th December till 4th January 2023. Retail Management students will join on 5th December 2022.

The list of students/place of training is attached below.

1. Neha Kumari
2. Anshul Kumar
3. Nikita Kumari
4. Vishal Kumar
5. Shiva Daroch
6. Manish Kumar

  
Noddy  
SVGC Ghumarwin  
SVGC, Ghumarwin

  
Noddy  
Principal  
s. v. Govt. College Ghumarwin  
SVGC, Ghumarwin  
Distt. Bilaspur (H.P.)

OFFICE ORDER

Office Copy (Retail Management) OTT

## S.V.G College Ghumarwin Distt. Bilaspur (H.P.)

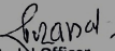
TO WHOM IT MAY CONCERN


This is to certify that the following students are regular students of Swami Vivekananda Government College Ghumarwin, District Bilaspur (H.P) and are enrolled under course B.Voc (Retail Management Level-4). Edubridge Learning Pvt Ltd has arranged there 210 hours of on-the-job training at your reputed Numero Uno at Ghumarwin. Also, you need to provide experience certificates to the each student after they complete on-the-job training in your store.

The training will start from 5th December till 4th January 2023. Retail Management students will join on 5th December 2022.

The list of students/place of training is attached below.

1. Aman Kumar
2. Neeraj Soni

  
Nodal Officer  
Nodal Officer  
SVGC, Ghumarwin

  
Principal  
Principal  
S. V. Govt. Degree College  
SVGC, Ghumarwin  
Distt. Bilaspur (H.P.)