

*South East Asian J. of Mathematics and Mathematical Sciences*  
*Vol. 19, No. 1 (2023), pp. 267-276*

DOI: 10.56827/SEAJMMS.2023.1901.22

ISSN (Online): 2582-0850

ISSN (Print): 0972-7752

**SOMEWHAT gp-CONTINUOUS AND SOMEWHAT  
gp-IRRESOLUTE FUNCTIONS**

**Rajeshwari K., Pallavi S. Mirajakar\* and Sarika M. Patil\*\***

Bharatiar University,  
Coimbatore - 641046, Tamil Nadu, INDIA

E-mail : rajeshwaribhat10@gamil.com

\*Department of Mathematics,  
Government First Grade College,  
Rajnagar, Hubbli - 580032, Karnataka, INDIA

E-mail : psmirajakar@gmail.com

\*\*Department of Mathematics,  
P. C. Jabin Science College,  
Vidyanagar, Hubballi - 580031, Karnataka, INDIA

E-mail : sarupatil@rediffmail.com

(Received: Nov. 08, 2021 Accepted: Apr. 11, 2023 Published: Apr. 30, 2023)

**Abstract:** The main object of this paper is to study the basic properties of somewhat gp-continuous functions using the concept of gp-open sets in topological spaces. Also, the concept of somewhat gp-open functions and somewhat gp-irresolute functions with some counter examples are explained in this paper. Further, the author establishes the relationship between the new classes of functions with other classes of functions by giving examples, counterexamples, properties and characterizations.

**Keywords and Phrases:** Somewhat continuous, somewhat gp-continuous, somewhat gpr-continuous functions.

**2020 Mathematics Subject Classification:** 54B05, 54C08.