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# Flexural Studies on Reinforced Concrete Beams with Glass Fiber Reinforced Polymer

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**Abstract :** Since the last decade, the demand for the strengthening and retrofitting materials has been increased throughout the world due to the damages or failure occurred in flexural members of various Civil Engineering structures<sup>2</sup>. To overcome such demands many strengthening and retrofitting materials with various and unique properties has been available in the market. There are many techniques adopted to apply those retrofitting and strengthening materials. Among those we have selected Glass Fiber Reinforced Polymer (GFRP) as a retrofitting material for strengthening purpose by External bonding the RC Beam. In this study initially three beams will be preloaded and then retrofitted with Glass Fiber Reinforced Polymer(GFRP). On the other hand, initially other three beams will be strengthened with the same material.All the six beams will be tested under loading and flexural strength of each beam will be studied.

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